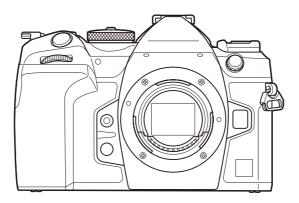


# DIGITAL CAMERA OM SYSTEM OM-1 Mark I

# **Instruction Manual**

Ver.1.1



EN

Model No. : IM027

- Thank you for purchasing our digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life.
- Be sure you have read and understood the contents of "SAFETY PRECAUTIONS", before using this product. Keep these instructions available for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.
- If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. For the latest information, please visit our website.

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# Introduction

# **Before You Begin**

#### **Read and Follow Safety Precautions**

To prevent incorrect operation resulting in fire or other damage to property or harm to yourself or to others, read "SAFETY PRECAUTIONS" (P.558) in its entirety before using the camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Be sure to keep the manual in a safe place once it is read. Our company will not be held liable for violations of local regulations arising from use of this product outside the country or region of purchase.

#### Wireless LAN and Bluetooth<sup>®</sup>

The camera features built-in wireless LAN and **Bluetooth**<sup>®</sup>. Use of these features outside the country or region of purchase may violate local wireless regulations; be sure to check with local authorities before use. Our company assumes no liability for any failure on the part of the user to observe local laws and regulations.

Disable the wireless LAN and **Bluetooth**<sup>®</sup> functions in locations in which their use is prohibited.

### **User Registration**

Be sure to register your purchase. Visit our website for information on registering your products.

# Installing PC Software/Apps

#### **OM Capture**

Use "OM Capture" to automatically download and view pictures as they are taken or control the camera remotely. To learn more or to download the software, visit our website. When downloading the software, be prepared to provide the camera serial number.

#### **OM Workspace**

This computer application is used to download and view photos and movies recorded with the camera. It can also be used to update the camera firmware. The software can be downloaded from our website. When downloading the software, be prepared to provide the camera serial number.

#### **OM Image Share**

Download pictures marked for sharing to your smartphone. You can also operate the camera remotely and take pictures from a smartphone. Visit our website for information about the application.



# **About This Manual**

# How to find what you want to know

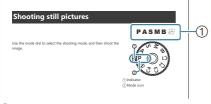
You can use the following methods to find what you want to know in this manual.

| Search method  | Where to look             |
|--|---------------------------|
| Search based on what you want to do                      | Table of Contents"        |
| Search based on names of buttons and parts of the camera | Names of parts" (P.24)    |
| Search based on menus and terms displayed on the monitor | Default Settings" (P.510) |

# How to read this manual

#### Supported shooting modes for each function

In this manual, the shooting modes in which each shooting function can be used are listed at the top of the function description. Black indicates supported shooting modes, while gray indicates unsupported shooting modes.



①Supported shooting modes

### Configuring functions

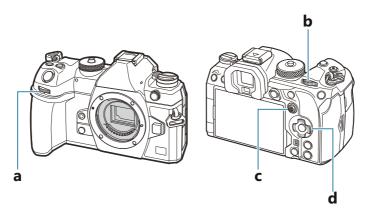
In this manual, the configuration method for each function is described at the beginning of the function description. For details, refer to "How to operate the menus" (P.97) and "How to change the shooting settings" (P.83).



#### Symbols in this manual

The symbols below are used throughout this manual.

|              | Indicates an operation performed by pressing the buttons (respectively the up, down, left, and right arrow buttons) on the arrow pad ( <b>d</b> ). |
|--------------|--|
| 8            | Indicates an operation performed using the front dial (a).   |
| *            | Indicates an operation performed using the rear dial ( <b>b</b> ).   |
| Ō            | Indicates an operation performed by placing your finger lightly on the multi selector ( <b>c</b> ) and tilting it in the desired direction.        |
| ( <u>ē</u> ) | Indicates an operation performed by pressing the center of the multi selector ( <b>c</b> ) like a button.  |
| ۲            | Cautions and limitations.  |
| ¢-           | Tips and other helpful information for using the camera.   |
| ß            | References to other pages in this manual.  |

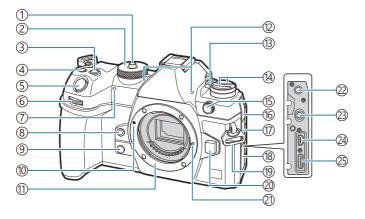


#### Screen illustrations in this manual

The camera monitor displays the super control panel (P.89) by default. The screen illustrations in this manual, however, show the live view display.

To learn how to display the shooting display on the monitor, refer to "Switching between displays" (P.47).

# Names of parts

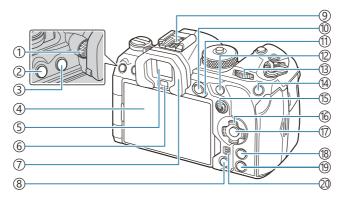


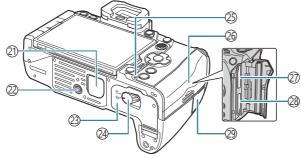
- ① Mode dial lock (P.51)
- 2 Mode dial (P.51)
- (Exposure Compensation) button (P.58, P.61, P.63, P.67, P.152)
- ④ (Movie)/ (High Res Shot)/☑ (selection) button (P.78 / P.239 / P.314)
- (5) Shutter button (P.51)
- (6) Front dial (P.58, P.61, P.63, P.65, P.97, P.294, P.328, P.347, P.350)
- (7) Self-timer lamp/AF illuminator (P.190 / P.134)
- (9 **Q** (Preview) button (P.360)
- 10 Lens attachment mark (P.36)
- ①Mount (Remove the body cap before attaching the lens.)
- (12) Stereo microphone (P.281, P.318)
- (13)**ON/OFF** lever (P.39)

(14) 🗢 button (P.358)

AF( (AF/metering mode) button (P.159) ゆうな (sequential shooting/self-timer/flash) button (P.179, P.190)

- (15) External flash terminal (P.176)
- 16 Microphone jack cover
- (17) Cover for headphone jack (P.283)
- 18 Connector cover
- (19) Strap eyelet (P.27)
- 20 Lens release button (P.37)
- 21)Lens lock pin
- (2) Microphone jack (ø3.5 mm stereo mini-jack for third-party microphones) (P.281)
- (3) Headphone jack (ø3.5 mm stereo mini-jack for third-party headphones) (P.283)
- (24) HDMI connector (Type D) (P.285, P.470)
- (25) USB connector (Type C) (P.30, P.32, P.462, P.464, P.465, P.466, P.468)





- ① Diopter adjustment dial (P.47)
- 2 MENU button (P.97)
- ③ OI (LV) button (P.47)
- (4) Monitor (Touch screen) (P.44, P.47, P.54, P.143, P.299)
- (5) Viewfinder (P.47, P.368)
- 6 Eye sensor
- (7) Eyecup (P.486)
- 8 🛍 (erase) button (P.306)
- (9) Hot shoe (P.176, P.485)
- (1) **AEL/O** (Protect) button (P.160 / P.303)
- (1) Fn lever (P.58, P.61, P.63, P.65, P.352)
- (12) **AF-ON** button (P.116, P.117)
- (3) Rear dial (P.58, P.61, P.63, P.65, P.97, P.294, P.328, P.347, P.350)
- <sup>1</sup> **ISO** / ★ (Rating) button (P.166 / P.312)

- (15) Multi selector (P.105, P.351)
- (16) Arrow pad (P.294)
- (17) **OK** button (P.97, P.89, P.294)
- (18) **INFO** button (P.49, P.99, P.293)
- (19 (playback) button (P.294)
- 20 Speaker
- 21 Power battery holder (PBH) cover (P.478)
- 22 Tripod socket
- 23 Battery compartment cover (P.28)
- 24 Battery compartment lock (P.28)
- 25 Battery charge lamp (P.30)
- (26) Card compartment cover (P.33)
- 27)Card slot 1 (P.33)
- (28) Card slot 2 (P.33)
- (29) Remote cable terminal cover (remote cable terminal) (P.454)

# **Preparation**

# Unpacking the box contents

At purchase, the package contains the camera and the following accessories. If anything is missing or damaged, contact the dealer from whom you purchased the camera.



Camera



Hot shoe cover <sup>1</sup>



BLX-1 rechargeable lithium-ion battery



Body cap<sup>1</sup>



EP-18 eyecup<sup>1</sup>



Strap



USB-AC adapter F-7AC



CB-USB13 USB cable



Basic Manual

Warranty Card

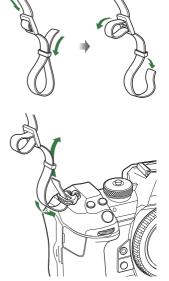
1 The body cap, eyecup, and hot shoe cover attached to or inserted in the camera.

The battery will not be fully charged at the time of purchase. Charge the battery before use (P.30).
 Contents may vary depending on purchase location.

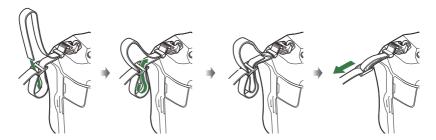
# Attaching the Strap

**1.** Before attaching the strap, remove the end from the keeper loop and loosen the strap as shown.

**2.** Pass the end of the strap through the strap eyelet and back through the keeper loop.



**3.** Pass the end of the strap through the buckle and tighten as shown.



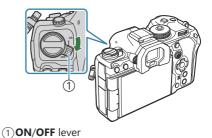
- Attach the other end of the strap to the other eyelet.
- After attaching the strap, pull on it firmly to ensure that it will not come loose.

# Inserting and removing the battery

# **Inserting the battery**

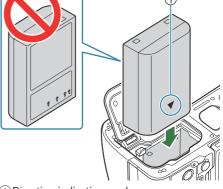
 Confirm that the ON/OFF lever is in the OFF position.

**2.** Open the battery compartment cover.



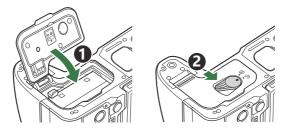
Battery compartment cover
 Battery compartment lock

- **3.** Insert the battery.
  - Use only BLX-1 batteries (P.26, P.508).



1 Direction indicating mark

#### **4.** Close the battery compartment cover.



(2) Be sure the battery compartment cover is closed before using the camera.

- It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.
- See also "Batteries" (P.472).

# **Removing the battery**

Turn off the camera before opening or closing the battery compartment cover. To remove the battery, first push the battery lock knob in the direction of the arrow and then remove.



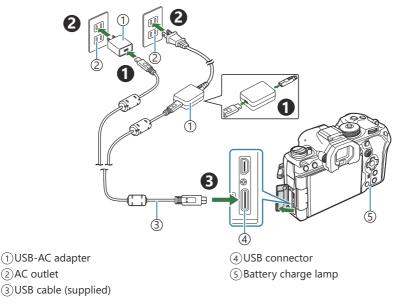
1 Battery lock knob

- ⑦ Contact an authorized distributor or service center if you are unable to remove the battery. Do not use force.
- (P.44) Never remove batteries or memory cards while the card write indicator (P.44) is displayed.

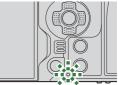
# Charging the battery using the USB-AC adapter

() The battery will not be fully charged at the time of purchase. Charge the battery before use.

- **1.** Check that the battery is in the camera, and connect the USB cable and USB-AC adapter.
  - When attaching the USB cable, use an optional cable protector and cable clip to prevent damage to the connectors and disconnection. (CP-2)" (P.486)
  - ⑦ Refrain from using anything other than the USB cable (CB-USB13) supplied with the camera or sold separately.



• The battery charge lamp lights during charging. Charging with the camera turned off takes about 2 hours 30 minutes. The lamp goes out as the batteries reach full charge. Remove the USB cable from the camera.



② If a charging error occurs, the battery charge lamp will blink. Disconnect and reconnect the USB cable.

- The battery will be charged regardless of whether the camera is turned on or off. The charging time will be longer if the camera is on.
- Scharging stops when the battery temperature is too high. It will resume after the battery temperature falls.
- & A charger (BCX-1: sold separately) can be used to charge the battery (P.477).
- For safety reasons, charging may take longer, or the battery may not reach full charge, when the battery is charged in a high-temperature environment.

#### (!) The USB-AC Adapter

Be sure to unplug the USB-AC adapter for cleaning. Leaving the USB-AC adapter plugged in during cleaning could result in injury or electric shock.

# Charging the Battery using a USB Device

The battery inserted in the camera will charge when the camera is connected via a USB cable to a USB PD-compliant USB device.

# **Charging via USB**

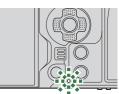
- 1. Confirm that the **ON/OFF** lever is in the **OFF** position.
- 2. Connect the camera to the USB device using a USB cable.
  - When attaching the USB cable, use an optional cable protector and cable clip to prevent damage to the connectors and disconnection.

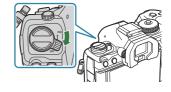
     <sup>(Cable Clip (CC-1) / Cable Protector (CP-2)" (P.486)

    </sup>
  - The battery charge lamp lights during charging. Charging times vary with the output of the USB device. The lamp goes out as the batteries reach full charge.

- ② If a charging error occurs, the battery charge lamp will blink. Disconnect and reconnect the USB cable.
- The supply of power ends when the battery is charged. Disconnect and reconnect the USB cable to resume charging.
- The camera can be powered using mobile batteries or similar devices connected via USB. For details, see "Powering the Camera via USB (USB PD)" (P.468).

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# Inserting and removing the card

## Inserting the card

In this manual, all storage devices are referred to as "cards." The following types of SD memory card (commercially available) can be used with this camera: SD, SDHC, and SDXC. Cards must be formatted with this camera before first use or after being used with other cameras or computers. I remain a formatting the card (Card Formatting)" (P.387) The camera has two card slots.

- 1. Confirm that the **ON/OFF** lever is in the **OFF** position.
- **2.** Open the card compartment cover.

- **3.** Insert the card.
  - Slide the card in until it locks into place.
  - ⑦ Do not forcibly insert a damaged or deformed card. Doing so may damage the card slot.

- **4.** Close the card compartment cover.
  - Close it securely until you hear it click.







Card slot 1
 Card slot 2
 Terminal area



# **Removing the card**

Press the card in to eject it. Pull out the card.

② Never remove batteries or memory cards while the card write indicator (P.44) is displayed.

# **Using Two Memory Cards**

When two memory cards are inserted, you can choose how each card is used according to your goals. Setting the card to record to (Card Slot Settings / Card Slot Settings)" (P.388)

- Record only to a selected card
- Record to a selected card until it is full, then record to the second card
- Record pictures with different sizes or compression ratios to different cards
- Record copies of each picture to both cards

#### **Usable cards**

In this manual, all storage devices are referred to as "cards." The following types of SD memory card (commercially available) can be used with this camera: SD, SDHC, and SDXC. For the latest information, please visit our website.

#### SD card write protect switch

The SD card body has a write protect switch. Setting the switch to "LOCK" prevents data being written to the card. Return the switch to the unlock position to enable writing.

When recording movies, use an SD card that supports an SD speed class of 10 or higher.
 A UHS-II or UHS-I card with a UHS speed class of 3 or better is required when:

- [4K] or [C4K] is selected for Movie Resolution in [🏵 4 -]
- [A-I] (All-Intra) is selected for Motion Compensation in [🍄 🐠]
- The data in the card will not be erased completely even after formatting the card or deleting the data. When discarding, destroy the card to prevent leakage of personal information.











Access to some playback functions and the like may be restricted when the write-protect switch is in the "LOCK" position.

# Attaching and removing lenses

# Attaching a lens to the camera

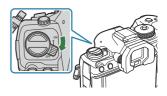
See "Interchangeable lenses" (P.474) for information on compatible lenses.

- 1. Confirm that the **ON/OFF** lever is in the **OFF** position.
- 2. Remove the rear cap of the lens and the body cap of the camera.
- **3.** Align the lens attachment mark (red) on the camera with the alignment mark (red) on the lens, then insert the lens into the camera's body.

**4.** Rotate the lens clockwise until you hear it click.

⑦ Do not press the lens release button.⑦ Do not touch internal portions of the camera.









①Lens attachment mark

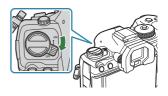


**5.** Remove the front lens cap.



## **Removing Lenses**

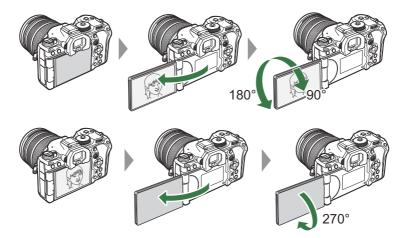
- **1.** Confirm that the **ON/OFF** lever is in the **OFF** position.
- **2.** Hold the lens release button and rotate the lens as shown.



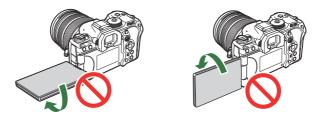


## Using the monitor

Rotate the monitor for ease of viewing. The angle of the monitor can be adjusted according to conditions at the time of shooting.



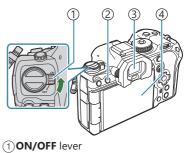
• Gently rotate the monitor within its range of motion. Attempting to rotate the monitor beyond the limits shown below could damage the connectors.



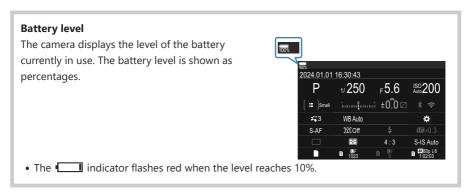
• The camera can be configured to display a mirror image of the view through the lens or automatically zoom power zoom lenses all the way out when the monitor is rotated for self portraits.

## Turning the camera on

- 1. Set the ON/OFF lever to the ON position.
  - When the camera is turned on, the monitor will turn on and display the super control panel.



- 2 OI (LV) button
- ③ Viewfinder
- (4) Monitor



- Press the OI (LV) button; a confirmation dialog will be displayed.
- The viewfinder turns on when you put your eye to the viewfinder. When the viewfinder is lit up, the monitor turns off.
- To turn the camera off, return the lever to the **OFF** position.
- The Fn lever can be configured to turn the camera on and off using the [Fn Lever/Power Lever] option. Solution: "Configuring [Fn Lever/Power Lever]" (P.356)

# Sleep Mode

If no controls are used for a set period, the camera will automatically enter suspend operation to reduce the drain on the batteries. This is referred to as "sleep mode".

- When the camera enters sleep mode, the monitor will turn off and operation will be suspended. Pressing the shutter or 🕨 button reactivates the camera.
- If no operations are performed for a set period after the camera enters sleep mode, the camera will turn off automatically. The camera can be reactivated by turning it on again.
- ⑦ The camera may require additional time to recover from sleep mode when [On] (enabled) is selected for [ Settings] > [Power-off Standby]. I "Wireless Settings for When the Camera Is Off (Power-off Standby)" (P.429)
- The delay before the camera goes to sleep or turns off automatically can be selected in the menu.
   "Setting Sleep (Power Saving) Options (Sleep)" (P.411), "Setting Auto Power Off Options (Auto Power Off)" (P.412)

## **Initial setup**

After turning the camera on for the first time, perform the initial setup by choosing a language and setting the camera clock.

- The file name is also included with the date and time information. Be sure to set the correct date and time before using the camera. Some functions cannot be used if the date and time have not been set.
  - **1.** Press the **OK** button when the initial setup dialog is displayed prompting you to choose a language.

**2.** Highlight the desired language using the front or rear dial or

the  $\Delta \nabla \triangleleft \triangleright$  buttons.

Please select your language. 23 Veuillez choisir votre langue. 23 Bitte wählen Sie Ihre Sprache. 23 Por favor, selecciona tu idioma. 23 请设置您的语言。23 言語を選択してください。23

|          | ¢.            |         |  |
|----------|---------------|---------|--|
| Česky    | Nederlands    | English |  |
| Suomi    | Français      | Deutsch |  |
| Italiano | 日本語           | Norsk   |  |
| Polski   | Português(Pt) | Русский |  |
| 中文(简体)   | Español       | Svenska |  |
| ไทย      | 中文(繁体)        | Türkçe  |  |
|          |               | OK      |  |

|          | <b>\$</b> 8   |         | J |
|----------|---------------|---------|---|
| Česky    | Nederlands    | English |   |
| Suomi    | Français      | Deutsch |   |
| Italiano | 日本語           | Norsk   |   |
| Polski   | Português(Pt) | Русский |   |
| 中文(简体)   | Español       | Svenska |   |
| ไทย      | 中文(繁体)        | Türkçe  |   |
|          |               | OK      |   |

**3.** Press the **OK** button when the desired language is highlighted.

- If you press the shutter button before pressing the **OK** button, the camera will exit to shooting mode and no language will be selected. You can perform the initial setup by turning the camera off and then on again to display the initial setup dialog and repeating the process from Step 1.
- The language can be changed at any time from the menu. I "What to Do If You Can't Read the Display" (P.43)

- **4.** Set the date, time, and date format.
  - Use the  $\triangleleft \triangleright$  buttons to highlight items.
  - Use the  $\Delta 
    abla$  buttons to change the highlighted item.
  - The time is displayed using a 24-hour clock.



- **5.** Press the **OK** button.
- **6.** Highlight a time zone using the  $\Delta \nabla$  buttons and press the **OK** button.
  - Press the INFO button to enable or disable daylight-saving time.
- 7. Press the OK button to save changes and exit.

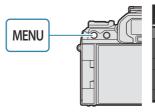
& Date and time information is recorded on the card together with the images.

- If the battery is removed from the camera and the camera is left for a while, the date and time may be reset. If this happens, set the date and time using the menu. Setting the Camera Clock (O Settings)" (P.416)

## What to Do If You Can't Read the Display

If you see unfamiliar characters or words in other languages, you may not have selected the language you intended. Follow the steps below to choose another language.

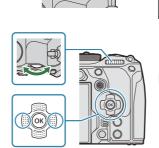
**1.** Press the **MENU** button to view the menus.

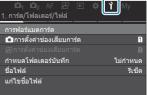


| 💁 1 🖾 2 AF 🍄 🗈 🔅 🏌                |     |
|-----------------------------------|-----|
| 1. การดั้งค่าพื้นฐาน/คุณภาพของภาพ |     |
| โหมดกำหนดเอง                      |     |
| ₫                                 | LF  |
| 💼 4 หารดั้งค่าโดยละเอียด          |     |
| สัดส่วนภาพ                        |     |
| ตรวจดูภาพ                         | ปิด |
| ชดเชยเงาแสง                       | ปิด |
|                                   |     |

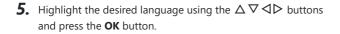
**2.** Highlight the **1** (setup) tab using the front dial.

Select a screen on which
 [♥●] appears using the <</li>
 buttons or the rear dial.





| เปิ <sub>1</sub> เปิ <sub>2</sub> AF 22<br>6.รีเซ็ด/@/ <b>€4</b> /อื่นๆ | Þ | *   | Ŷ      | Му         |
|---|---|-----|--------|------------|
| รีเช็ด/เริ่มดันการตั้งค่า   |   |     |        |            |
| (Dการตั้งค่า)   |   | '24 | 4 01 0 | 1 16:30:43 |
| <b>\$</b> 4   |   |     |        | ไทย        |
| ปรับดังระดับ  |   |     |        |            |
| พิกเซลแมบปั้ง   |   |     |        |            |
| เวอร์ชันเฟิร์มแวร์  |   |     |        | 1.0        |
| การรับรอง   |   |     |        |            |

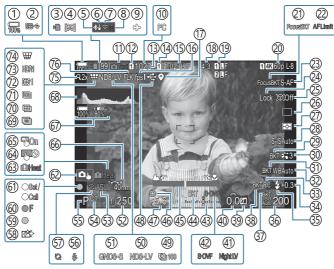


|          | <b>\$</b> 4   |         |
|----------|---------------|---------|
| Česky    | Nederlands    | English |
| Suomi    | Français      | Deutsch |
| Italiano | 日本語           | Norsk   |
| Polski   | Português(Pt) | Русский |
| 中文(简体)   | Español       | Svenska |
| ไทย      | 中文(繁体)        | Türkçe  |
| ⇒ menu   |               | OK      |

# Shooting

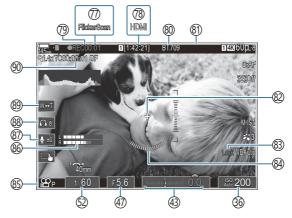
# Information displays while shooting

For information on the super control panel, which appears on the monitor by default, see "Settings Available in the Super Control/LV Super Control Panel" (P.93).



### Monitor display during still photography

#### Monitor display during movie mode



(1) Battery level (P.39) (2) USB PD (P.468) (3) Card write indicator (P.29, P.34) (4) Maximum number of continuous shots (P.192) (5) Active **Bluetooth**<sup>®</sup> connection (P.428, P.455) (6) Remote control (P.455) (7) Wireless LAN connection (P.426, P.441) (8) Active connection to computer (Wi-Fi) (P.441) (9) Airplane Mode (P.424) (10) Active connection to computer (USB) <sup>1</sup> (P.462, P.464, P.465, P.466) (11) Test Picture (P.336) 12 Save Settings (P.389) (13) Number of storable still pictures (P.553) (14) Save Slot (P.390) (15) Available Recording Time (P.556) (16) Frame Rate (P.364) (17) Bluetooth Position Information (P.435) (18) Aspect Ratio (P.218) (19 Image Quality (P.211) 20 H Movie Quality (P.212) (21) Focus BKT (P.278) (22) AF Limiter (P.129) (23) AF Mode (P.100) (24) Subject Selection Lock (P.121) (25) Subject Detection (P.120) (26) Drive (Single, Sequential, Self-Timer, Anti-Shock, Silent Mode, Pro Capture Shooting) (P.190 / P.197 / P.198 / P.200) (27) Metering mode (P.159) (28) Image Stabilizer (P.204) (29) ART BKT (P.276) (30) Picture Mode (P.220)

(31) WB BKT (P.273) (32) White balance (P.228) (33) RC Mode (P.185) (34) Flash Intensity Control (P.184) (35) Flash Mode (P.179) (36) ISO sensitivity (P.166) (37) ISO BKT (P.275) (38) FL BKT (P.274) (39) Highlight & Shadow Control (P.344) (40) Exposure compensation value (P.152) (1) Night Vision (P.363) (42) LV Mode (P.362) (43) Exposure compensation (P.152) (44) AE BKT (P.271) (45) Focus Indicator (P.144) (46) Preview (P.360) (47) Aperture Value (P.58, P.61) (48) Active USB connection (P.462, P.464, P.465, P.466, P.468) (49) Interval Shooting (P.260) (50) Live ND Shooting (P.243) (51) Live GND Shooting (P.246) (52) Shutter Speed (P.58, P.63) (53) AE Lock (P.160) (54) Custom Mode (P.73) (55) Shooting Mode (P.58) (56) Flash (blinks: charging in progress, lights up: charging completed) (P.175) (57) Pro Capture active (P.200) (58) Dust reduction (P.494) (59) AF confirmation mark (P.51) (60) ♥→ SH2 Aperture warning (P.190)

(61) SET/CALL function (P.476)

- (c) Touch Controls (P.54)(?) Flic(B) Internal temperature warning (P.500)(?) Plic(B) Internal temperature warning (P.500)(?) Plic(B) Touch control lock (P.336)(?) Rec(B) AF Targeting Pad (P.143)(P.7(B) Zoom operation direction/Focal length(B) Plic(B) All Battery Information (P.39, P.28)(B) Rec(B) Histogram (P.50)(B) Cer(B) Multiple Exposure (P.255)(B) WB(?) High Res Shot (P.239)(B) Lev(?) Focus Stacking (P.250)(B) Plic(?) HDR (P.253)(B) Sou(?) HDR (P.253)(B) Sou(?) Digital Tele-converter (P.259)(B) Eler(?) Anti-Flicker Shooting (P.203)(B) Time
- - (9) Time Code (P.284)
  - 1 Displayed only when connected to OM Capture and the computer is currently selected in the [**Q1<sup>C</sup>RAW/Control**] menu as the sole destination for new pictures (P.462).

# Switching between displays

The camera uses an eye sensor to automatically switch between the viewfinder and monitor displays. The viewfinder and monitor display (super control panel/live view) also show information on camera settings. Options are available for controlling display switching and choosing the information shown. The camera monitor displays the super control panel (P.89) by default.

### Framing photos in the viewfinder

The viewfinder turns on automatically when you bring it to your eye. When the viewfinder is lit up, the monitor turns off.



①Viewfinder



### Framing photos in the monitor

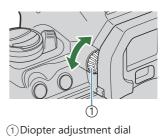
The monitor shows the super control panel. It changes to live view when you press the |O| (LV) button.



IOI (LV) button
 Monitor

| 100%   |  |       |  |
|--|--|-------|--|
| 2024.01.01   | 16:30:43   |       |  |
| Р  | 1/250  |       | ISO 200                                  |
| [ <b>≕</b> ]Small  |  | ±0.0⊠ |  |
| *3   | WB Auto  |       | *  |
| S-AF   | [0]] Off   |       | 2022a ±0.3                               |
|  | ►  | 4:3   | S-IS Auto                                |
|  | I 1023   |       | 4K60p L-8<br>1:02:03                     |
|  |  |       |  |
|  |  | 101 ( | LV)                                      |
|  | 11023 [1]1:02:00]  | TUP   | NAKIGOP L-8<br>S-AF                      |
| And the second s | a strange  | 2     | and the second                           |
| and the  | we have  | 717   |  |
|  |  |       |  |
|  | and the second s | 100   |  |
| 0.   | The Antonia State  | AF    | C. C |
|  |  |       |  |

• If the viewfinder is not in focus, put your eye to the viewfinder and focus the display by rotating the diopter adjustment dial.

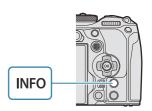


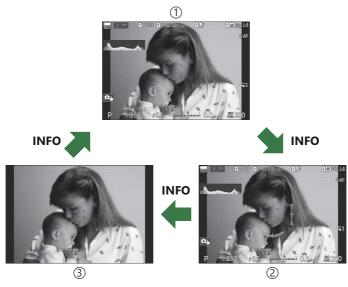
Display switching and viewfinder display options are available. Selecting the display style of the viewfinder (EVF Style)" (P.368), "Configuring the eye sensor (Eye Sensor Settings)" (P.402)

## Switching the information display

PASMB

You can switch the information displayed in the monitor during shooting using the **INFO** button.



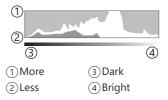


①Information 1

- (2) Information 2 (still photography mode only)
- ③Image Only
- The information display screens can be switched in either direction by rotating the dial while pressing the INFO button.
- The information shown in still photography mode and the information shown in movie mode can be set individually. Shooting Indicators ( Info Settings / PInfo Settings)" (P.370)
- You can choose whether to display information when the shutter button is pressed halfway.
   "Configuring the display for when the shutter button is pressed halfway (Info by half-pressing
   )" (P.373)

## Histogram display

A histogram showing the distribution of brightness in the image is displayed. The horizontal axis gives the brightness, the vertical axis the number of pixels of each brightness in the image. Areas above the upper limit at shooting are displayed in red, those below the lower limit in blue, and those within the spot metering range in green. You can choose the upper and lower limits. If "Histogram Exposure Warning (Histogram Settings)" (P.380)



## **Highlights and Shadows**

Highlights and shadows, defined according to the upper and lower limits for the histogram display, are shown in red and blue. You can choose the upper and lower limits. If "Histogram Exposure Warning (Histogram Settings)" (P.380)

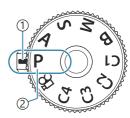
### Level gauge display

The orientation of the camera is indicated. The "tilt" direction is indicated on the vertical bar and the "horizon" direction on the horizontal bar.

- The level gauge is intended as a guide only.
- Calibrate the gauge if you find it is no longer truly plumb or level. I "Calibrating the Level Gauge (Level Adjust)" (P.418)

# **Shooting still pictures**

Use the mode dial to select the shooting mode, and then shoot the image.



PASMB

Indicator
 Mode icon

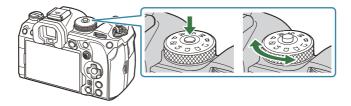
## Types of shooting modes

For how to use the various shooting modes, see the following.

| Р           | Program AE (P.58)           |
|-------------|-----------------------------|
| А           | Aperture-priority AE (P.61) |
| S           | Shutter-priority AE (P.63)  |
| М           | Manual exposure (P.65)      |
| В           | Bulb/time (P.68)            |
| U           | Live composite (P.71)       |
| C1/C2/C3/C4 | Custom (P.75)               |

Solution on the  $\mathfrak{P}$  position on the mode dial, see "Recording movies in movie mode ( $\mathfrak{P}$ )" (P.78).

**1.** Press the mode dial lock to unlock it, and then turn to set the mode you wish to use.



- When the mode dial lock has been pressed down, the mode dial is locked. Each time you press the mode dial lock, it switches between locked/released.
- **2.** Frame the shot.

(2) Be careful that your fingers or the camera strap do not obstruct the lens or AF illuminator.



Landscape position



- **3.** Adjust the focus.
  - Position the AF frame over your subject.

- Lightly press the shutter button down to the first position (press the shutter button halfway).
- The AF confirmation mark (
  ) will be displayed, and a green frame (AF target) will be displayed in the focus location.

- S-You can also focus by pressing the AF-ON button (P.116).
- (?) If the camera is unable to focus, the AF confirmation mark will flash (P.496).
- (P.106) The AF frame varies with the option chosen for AF-target mode. Change the area (P.106) and position (P.105) of the AF target as required.
- () The AF frame is not displayed when [[]] All] is chosen for AF-target mode (P.106).
- **4**. Release the shutter.
  - Press the shutter button all the way (fully).
  - The camera will release the shutter and take a picture.

& You can focus and take pictures using touch controls. 🕼 "Shooting with touch screen operations" (P.54)





(1)AF frame

(2) AF target



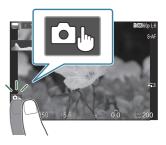


(2)(1)AF confirmation mark

## Shooting with touch screen operations

## PASMB

You can tap the subject to focus and take a photograph.



| <b>لی</b> | Tap a subject to focus and automatically release the shutter. This option is not available<br>in mode <b>B</b> (bulb), in 🍄 (movie) mode, or when [★AF] or [★AF <b>ME</b> ] is selected for AF<br>mode (P.100).                                  |
|-----------|--|
|           | Shooting with touch screen operations is disabled.   |
|           | Tap to display an AF target and focus on the subject in the selected area. You can use<br>the touch screen to choose the position and size of the focus frame. Photographs can be<br>taken by pressing the shutter button.                       |
|           | When the camera detects a subject, tap the subject to lock onto it as the main subject to focus on. Tap <b>I</b> to release the lock. <b>I</b> is displayed when <b>[Subject Detection]</b> is set to a setting other than <b>[Off]</b> (P.120). |
|           | ② Subject selection is not available when [ 120/60pL-8] (high-speed movie recording) is selected for [ ♀ ◄··] in ♀ (movie) mode (P.212).   |

• Tapping an icon switches the settings.

O Do not tap the display with your fingernails or other sharp objects.

O Gloves or monitor covers may interfere with touch screen operation.

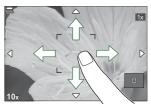
## Previewing the subject (

- **1.** Tap the subject in the display.
  - An AF target will be displayed.
  - Use the slider to choose the size of the frame.

- Tap 🔤 to turn off the display of the AF target.
- **2.** Use the slider to adjust the size of the AF target, and then tap **a** to zoom in at the frame position.
  - Use your finger to scroll the display when the picture is zoomed in.

- Tap 💷 to cancel the zoom display.
- ${}^{\textcircled{O}}$  The situations in which touch screen operations are not available include the following.
  - When buttons or dials are in use
- You can disable the touch screen operation. So "Disabling Touch Controls (Touchscreen Settings)" (P399)





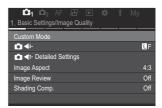
## Photo Review (Image Review)



Pictures are displayed immediately after shooting. This gives you a chance to quickly review the shot. You can choose how long pictures are displayed or disable photo review altogether. To end photo review and resume shooting at any time, press the shutter button halfway.

| 0.3–20sec | Choose how long photos are displayed.  |
|-----------|--|
| Off       | Photo review disabled. The camera continues to display the view through the lens after shooting. |
| Auto 🕨    | Switch to playback after shooting. You can delete images and perform other playback operations.  |

- 1. Press the **MENU** button to view the menus.
- **2.** Highlight the **D**<sub>1</sub> tab using the front dial.



- **3.** Highlight **[1. Basic Settings/Image Quality]** using the ⊲⊳ buttons or the rear dial.
- **4.** Highlight **[Image Review]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| 🚺 🗖 🖞 AF 🍄 🖻 🗱 🏌 M              | у   |
|---------------------------------|-----|
| 1. Basic Settings/Image Quality |     |
| Custom Mode                     |     |
| ₽                               | LF  |
| Image: Detailed Settings        |     |
| Image Aspect                    | 4:3 |
| Image Review                    |     |
| Shading Comp.                   | Off |

**5.** Change the settings using the  $\Delta \nabla \triangleleft \triangleright$  buttons and press the **OK** button.



**6.** Press the **MENU** button to exit the menus.

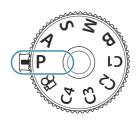
# Letting the camera choose aperture and shutter speed (P: Program AE)



The camera chooses the optimal aperture and shutter speed according to subject brightness.

**1.** Rotate the mode dial to **P**.

- **2.** Focus and check the display.
  - Use the front and rear dials to adjust the following settings. Front dial: Exposure compensation (P.152) Rear dial: Program shift (P.60)
  - The shutter speed and aperture chosen by the camera are displayed.





Shooting mode
 Shutter speed
 Aperture

Exposure compensation can also be adjusted using the button. Press the button and then rotate the front or rear dial.

- **3.** Release the shutter.
- You can use the **Fn** lever to reverse the roles of the front and rear dials. The **Fn** lever can also be assigned other roles. I "Customizing the **Fn** Lever (Fn Lever Settings)" (P.352)

58

### Subject Too Dark or Too Bright

If the camera is unable to achieve optimal exposure, the shutter-speed and aperture displays will flash as shown.

| Display  | Problem/solution  |
|--|---|
| Large aperture (low f/-<br>number)/slow shutter speed  | The subject is too dark.<br>• Use a flash.  |
| Small aperture (high f/-<br>number)/fast shutter speed | <ul> <li>Subject is too bright.</li> <li>The limits of the camera metering system have been exceeded.<br/>Use a third-party ND (Neutral Density) filter to reduce the<br/>amount of light entering the camera.</li> <li>Shutter speeds as fast as 1/32000 s are available in [♥]<br/>(silent) mode. I * "Shooting without shutter sound (Silent</li> <li>[♥] Settings)" (P.198), "Performing the sequential/self-timer<br/>shooting" (P.190)</li> </ul> |

When [DISO] is not set to [Auto], optimal exposure may be achieved by changing the setting.
 "Changing ISO sensitivity (ISO)" (P.166)

So The aperture value shown when the display flashes varies with the lens and focal length.

## **Program Shift**

Without changing exposure, you can choose from different combinations of aperture and shutter speed selected automatically by the camera. This is known as program shift.

- **1.** Rotate the rear dial until the camera displays the desired combination of aperture and shutter speed.
  - The shooting mode indicator in the display changes from P to Ps while program shift is in effect. To end program shift, rotate the rear dial in the opposite direction until only P is displayed.



# Choosing aperture (A: Aperture-Priority AE)

## PASMB 🕾

In this mode, you choose the aperture (f/-number) and the camera automatically sets the shutter speed for optimal exposure according to subject brightness. Lower aperture values (larger apertures) reduce the depth of the area that appears to be in focus (depth of field), blurring the background. Higher aperture values (smaller apertures) increase the depth of the area that appears to be in focus in front of and behind the subject.



(2) Higher aperture values...

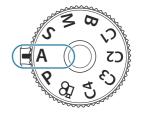
...increase depth of field.

(1) **Lower aperture values...** ...reduce depth of field and increase blur.

**1.** Rotate the mode dial to **A**.

Rear dial: Aperture

2. Adjust aperture.



1 Aperture

• The shutter speed selected automatically by the camera will appear in the display.

• Use the front and rear dials to adjust the following settings.

Front dial: Exposure compensation (P.152)

- Exposure compensation can also be adjusted using the button. Press the button and then rotate the front or rear dial.
- **3.** Release the shutter.

- You can use the **Fn** lever to reverse the roles of the front and rear dials. The **Fn** lever can also be assigned other roles. I (Customizing the **Fn** Lever (Fn Lever Settings)" (P.352)
- You can choose whether the display reflects the effects of exposure compensation or maintains a constant brightness for ease of viewing. I "Changing the look of the display (LV Mode)" (P.362)
- You can stop aperture down to the selected value and preview depth of field. Selected value and preview depth of field. (Changing the roles of buttons (Button Settings)" (P.334)

### Subject Too Dark or Too Bright

If the camera is unable to achieve optimal exposure, the shutter-speed display will flash as shown.

| Display            | Problem/solution   |
|--------------------|--|
| Slow shutter speed | Underexposure.<br>• Choose a lower aperture value.   |
| Fast shutter speed | <ul> <li>Overexposure.</li> <li>Choose a higher aperture value.</li> <li>If the subject is still overexposed at the higher value, the limits of the camera metering system have been exceeded. Use a third-party ND (Neutral Density) filter to reduce the amount of light entering the camera.</li> <li>Shutter speeds as fast as 1/32000 s are available in [♥] (silent) mode.</li> <li>IST "Shooting without shutter sound (Silent [♥] Settings)" (P.198), "Performing the sequential/self-timer shooting" (P.190)</li> </ul> |

When [DISO] is not set to [Auto], optimal exposure may be achieved by changing the setting. "Changing ISO sensitivity (ISO)" (P.166)

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# Choosing shutter speed (S: Shutter-Priority AE)



In this mode, you choose the shutter speed and the camera automatically sets aperture for optimal exposure according to subject brightness. Faster shutter speeds appear to "freeze" fast-moving subjects. Slower shutter speeds add blur to moving objects, lending them a sense of motion for a dynamic effect.



### **1** Slower shutter speeds...

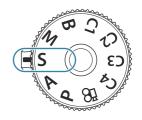
...produce dynamic shots with a sense of motion.

### 2 Faster shutter speeds...

..."freeze" the motion of fast-moving subjects.

**1.** Rotate the mode dial to **S**.

- **2.** Choose the shutter speed.
  - Use the front and rear dials to adjust the following settings. Front dial: Exposure compensation (P.152) Rear dial: Shutter speed
  - Choose from shutter speeds of 1/8000-60 s.
  - Shutter speeds as fast as 1/32000 s are available in silent mode. Shooting without shutter sound (Silent
     Settings)" (P.198), "Performing the sequential/self-timer shooting" (P.190)
  - The aperture selected automatically by the camera will appear in the display.
  - Exposure compensation can also be adjusted using the button. Press the button and then rotate the front or rear dial.





(1)Shutter speed

### **3.** Release the shutter.

- You can use the **Fn** lever to reverse the roles of the front and rear dials. The **Fn** lever can also be assigned other roles. I (Customizing the **Fn** Lever (Fn Lever Settings)" (P.352)
- You can choose whether the display reflects the effects of exposure compensation or maintains a constant brightness for ease of viewing. I "Changing the look of the display (LV Mode)" (P.362)
- To achieve the effect of a slow shutter in brightly-lit settings in which slow shutter speeds are not otherwise available, use the live ND filter. I "Slowing the Shutter in Bright Light (Live ND Shooting)" (P.243)
- Depending on the shutter speed selected, you may notice banding in the display caused by flicker from fluorescent or LED light sources. The camera can be configured to reduce the effects of flicker during live view or when pictures are taken. If "Reducing Flicker in Photographs (Anti-Flicker Shooting)" (P.203), "Reducing Flicker Under LED Lighting ( Flicker Scan / Pricker Scan)" (P.157)

### Subject Too Dark or Too Bright

If the camera is unable to achieve optimal exposure, the aperture display will flash as shown.

| Display             | Problem/solution  |
|---------------------|---|
| Low aperture value  | Underexposure.<br>• Choose a slower shutter speed.  |
| High aperture value | <ul> <li>Overexposure.</li> <li>Choose a faster shutter speed. Shutter speeds as fast as 1/32000 s are available in silent mode.</li> <li>If the subject is still overexposed at the higher speed, the limits of the camera metering system have been exceeded. Use a third-party ND (Neutral Density) filter to reduce the amount of light entering the camera.</li> </ul> |

When [DISO] is not set to [Auto], optimal exposure may be achieved by changing the setting. "Changing ISO sensitivity (ISO)" (P.166)

& The aperture value shown when the display flashes varies with the lens and focal length.

# Choosing aperture and shutter speed (M: Manual Exposure)



In this mode, you choose the aperture and shutter speed. You can adjust settings according to your goals, for example by combining fast shutter speeds with small apertures (high f/-numbers) for increased depth of field.

**1.** Rotate the mode dial to **M**.

- **2.** Adjust aperture and shutter speed.
  - Use the front and rear dials to adjust the following settings. Front dial: Aperture Rear dial: Shutter speed
  - Choose from shutter speeds of 1/8000-60 s.
  - Shutter speeds as fast as 1/32000 s are available in silent mode. I "Shooting without shutter sound (Silent [♥] Settings)" (P.198)
  - The display shows the difference between the exposure produced by the selected aperture and shutter speed and the optimal exposure metered by the camera. The display will flash if the difference exceeds ±3 EV.



①Difference from optimal exposure

- When [Auto] is selected for [DISO], ISO sensitivity will automatically be adjusted for optimal exposure at the selected exposure settings. [DISO] defaults to [Auto].
   "Changing ISO sensitivity (ISO)" (P.166)
- 3. Release the shutter.

- You can use the **Fn** lever to reverse the roles of the front and rear dials. The **Fn** lever can also be assigned other roles. I (Customizing the **Fn** Lever (Fn Lever Settings)" (P.352)
- You can choose whether the display reflects the effects of exposure compensation or maintains a constant brightness for ease of viewing. I "Changing the look of the display (LV Mode)" (P.362)
- Depending on the shutter speed selected, you may notice banding in the display caused by flicker from fluorescent or LED light sources. The camera can be configured to reduce the effects of flicker during live view or when pictures are taken. If "Reducing Flicker in Photographs (Anti-Flicker Shooting)" (P.203), "Reducing Flicker Under LED Lighting ( Flicker Scan / Pricker Scan)" (P.157)

### Subject Too Dark or Too Bright

If the camera is unable to achieve optimal exposure with **[Auto]** selected for **[D ISO]**, the ISO sensitivity display will flash as shown.

| Display              | Problem/solution   |
|----------------------|--|
| - 180<br>Auto 1.30 - | Overexposure. <ul> <li>Choose a higher aperture value or faster shutter speed.</li> </ul>  |
| - Auto 25800 -       | <ul> <li>Underexposure.</li> <li>Choose a lower aperture value or slower shutter speed.</li> <li>If the warning does not clear from the display, choose a higher value for<br/>ISO sensitivity. I "Changing ISO sensitivity (ISO)" (P.166), "Setting the range<br/>of ISO sensitivity values selected in [Auto] mode ( ISO-A Upper/Default /<br/>MISO-A Upper/Default)" (P.169)</li> </ul> |

## Using Exposure Compensation in Mode M

In mode **M**, exposure compensation is available when **[Auto]** is selected for **[DISO]**. Because exposure compensation is performed by adjusting ISO sensitivity, aperture and shutter speed are not affected. **I**ST "Changing ISO sensitivity (ISO)" (P.166), "Setting the range of ISO sensitivity values selected in [Auto] mode (DISO-A Upper/Default / PMISO-A Upper/Default)" (P.169)

- **1.** Hold the 🔁 button and rotate the front or rear dial.
  - Exposure compensation is added to the exposure difference shown in the display.



 Difference from the exposure setting value with compensation value added
 Exposure compensation value

## Long Exposures (B: Bulb/Time)



Select this mode to leave the shutter open for a long exposure. You can preview the photo in live view and end the exposure when the desired results have been achieved. Use when long exposures are required, for example when photographing night scenes or fireworks.

⑦ For long exposure shooting, it is recommended that you fix the camera securely on a tripod and set [① Image Stabilizer] (P.204) to [S-IS Off].

### "Bulb" and "Live Bulb" Photography

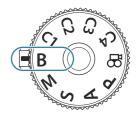
The shutter remains open while the shutter button is pressed. Releasing the button ends the exposure.

- The amount of light entering the camera increases the longer the shutter is open.
- When live bulb photography is selected, you can check the results in the live view display and end exposure when you want to.

### "Time" and "Live Time" Photography

The exposure begins when the shutter button is pressed all the way down. To end the exposure, press the shutter button all the way down a second time.

- The amount of light entering the camera increases the longer the shutter is open.
- When live time photography is selected, you can check the results in the live view display and end exposure when you want to.
- **1.** Rotate the mode dial to **B**.



- 2. Select [Bulb] (for bulb photography) or [Time] (time photography).
  - At default settings, the selection is made with the rear dial.

- **3.** Press the **MENU** button.
  - You will be prompted to choose the interval at which the preview is updated.
- **4.** Highlight an interval using  $\Delta \nabla$ .
- **5.** Press the **OK** button to save changes.
  - The menus will be displayed.
- 6. Press the MENU button repeatedly to exit the menu.
  - If an option other than [Off] is selected, [Live Bulb] or [Live Time] will appear in the display.

- **7.** Adjust aperture.
  - At default settings, aperture can be adjusted using the front dial.



(1) Bulb or time photography



1)Aperture



- 8. Release the shutter.
  - In bulb and live bulb modes, keep the shutter button pressed. The exposure ends when the button is released.
  - In time and live time modes, press the shutter button all the way down once to start the exposure and again to end it.
  - During live time photography, you can refresh the preview by pressing the shutter button halfway.
  - The exposure ends automatically when the time selected for **[Bulb/Time Timer]** is reached.
  - **[Noise Reduction]** is applied after shooting. The display shows the time remaining until the process is complete. You can choose the conditions under which **[Noise Reduction]** is performed. I range Exposure Noise Reduction Options (Noise Reduction)" (P.174)
- () Some limitations apply to the choice of ISO sensitivity settings available.
- () Bulb photography is used in place of live bulb photography when multiple exposure, keystone compensation, or fisheye correction is in effect.
- ⑦ Time photography is used in place of live time photography when multiple exposure, keystone compensation, or fisheye correction is in effect.
- During shooting, there are limits on the settings for the following functions.
   Sequential shooting, self-timer shooting, time lapse shooting, AE bracket shooting, flash bracketing, focus bracketing, Focus Stacking, etc.
- ② Depending on camera settings, the temperature, and the situation, you may notice noise or bright spots in the monitor. These may sometimes appear in pictures even when [Noise Reduction] is enabled. IF "Long Exposure Noise Reduction Options (Noise Reduction)" (P.174)
- Starry sky AF can be used for shots of the night sky. I Choosing a focus mode (AF Mode / AF Mode)" (P.100), "Changing the settings of Starry Sky AF (Starry Sky AF Setting)" (P.119)
- Display brightness can be adjusted during bulb/time photography. I "Configuring BULB/TIME/ COMP Settings (BULB/TIME/COMP Settings)" (P.269)
- In mode B (bulb), you can adjust focus manually while the exposure is in progress. You can take pictures using techniques such as putting the subject out of focus during exposure or focusing at the end of exposure. I "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P269)

### هٰ- Noise

While shooting at slow shutter speeds, noise may appear on screen. These phenomena occur when the temperature rises in the image sensor or image sensor internal drive circuit, causing current to be generated in those sections of the image sensor that are not normally exposed to light. This can also occur when shooting with a high ISO setting in a high-temperature environment. To reduce this noise, the camera activates the noise reduction function. If "Long Exposure Noise Reduction Options (Noise Reduction)" (P.174)

# Lighten Blending (**B**: Live Composite Photography)

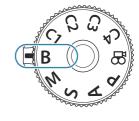


Select this mode to leave the shutter open for a long exposure. You can view the light trails left by fireworks or stars and photograph them without changing the exposure of the background. The camera combines multiple shots and records them as a single photograph.

⑦ For live composite photography, it is recommended that you fix the camera securely on a tripod and set [ 1 Image Stabilizer] (P.204) to [S-IS Off].

**1.** Rotate the mode dial to **B**.

- 2. Select [Live Comp].
  - At default settings, the selection is made with the rear dial.





- 3. Press the MENU button.
  - The [Composite Settings] menu will be displayed.



- **4.** Highlight an exposure time using  $\Delta \nabla$ .
  - Choose an exposure time of from 1/2 to 60 s.

- 5. Press the OK button to save changes.
  - The menus will be displayed.
- 6. Press the MENU button repeatedly to exit the menu.
- 7. Adjust aperture.
  - At default settings, aperture can be adjusted using the front dial.
- 8. Press the shutter button all the way down to ready the camera.
  - The camera is ready to shoot when [Ready for composite shooting] is displayed.



- 9. Press the shutter button to start shooting.
  - Live composite photography will start. The display will be updated after each exposure.
- **10.** Press the shutter button again to end shooting.
  - Shooting ends automatically after the time selected for [Live Composite Timer]. This can be changed. I Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.269)
  - The maximum recording time available varies with battery level and shooting conditions.
- () Some limitations apply to the choice of ISO sensitivity settings available.
- The following cannot be used:
  - sequential shooting, the self-timer, interval timer photography, AE bracketing, flash bracketing, focus bracketing, HDR photography, High Res Shot, Focus Stacking, multiple exposure, keystone compensation, live ND shooting, live GND shooting, and fisheye compensation.
- Starry sky AF can be used for shots of the night sky. I Choosing a focus mode ( AF Mode / AF Mode)" (P.100), "Changing the settings of Starry Sky AF (Starry Sky AF Setting)" (P.119)
- Display brightness can be adjusted during live composite photography. The "Configuring BULB/TIME/COMP Settings" (P.269)
- The exposure time for each exposure made during live composite photography can be chosen in advance using the menus. I "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.269)

# Saving Custom Settings to the Mode Dial (C1, C2, C3, and C4 Custom Modes)

Frequently-used settings and shooting modes can be saved as custom modes and recalled as needed simply by rotating the mode dial. Saved settings can also be recalled from the menus.

• Save settings to positions C1 through C4.

# Saving Settings (Assign)

- **1.** Choose a mode other than  $\mathfrak{P}$  and adjust settings as desired.
  - For information on the settings that can be saved, see "Default Settings" (P.510).

ЦF

Off

Custom Mode
 Custom Mode
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 Custom State
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Shading Comp

- **2.** Press the **MENU** button to view the menus.
- **3.** Highlight the **D**<sub>1</sub> tab using the front dial.

- **4.** Highlight **[1. Basic Settings/Image Quality]** using the ⊲▷ buttons or the rear dial.
- **5.** Highlight **[Custom Mode]** using the  $\Delta \nabla$  buttons and press the **OK** button.

- **7.** Highlight [Assign] using the  $\Delta \nabla$  buttons and press the **OK** Recall
- **8.** Highlight [Set] using the  $\Delta \nabla$  buttons and press the OK button.

• The menu for the selected custom mode will be displayed.

- Any existing settings will be overwritten.
- To restore default settings for the selected custom mode, highlight [Reset] and press the OK button.
- 9.

buttons and press the **OK** button.

C4) during shooting. I "Saving the Changes Made to Settings while in Custom Modes" (P.77)

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| Press the <b>MENU</b> | button to exit the menus. |  |
|-----------------------|---------------------------|--|
|                       |                           |  |

| Custom Mode |    |
|-------------|----|
| C1          |    |
| C2          |    |
| C3          |    |
| C4          |    |
|             |    |
|             |    |
|             |    |
| ± ≣≣        | OK |







button.

# Saving Custom Settings to the Mode Dial (**C1**, **C2**, **C3**, and **C4** Custom Modes)

Ô1

# Using Custom Modes (C1/C2/C3/C4)

### PASMB 🎛

To recall all saved settings, including the shooting mode:

### **Recalling Settings with the Mode Dial**

- Rotate the mode dial to the desired custom mode (C1, C2, C3, or C4).
  - The camera will be set to the settings for the selected mode.
- By default, changes made after recall will not be applied to the stored settings. The saved settings will be restored when next you select the custom mode with the mode dial.

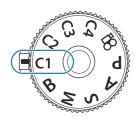
### Recalling Saved Settings

In modes other than  $\mathfrak{A}$ , you can recall the settings stored in custom modes [C1] through [C4].

- **1.** Press the **MENU** button to view the menus.
- **2.** Highlight the **D**<sub>1</sub> tab using the front dial.
- **3.** Highlight **[1. Basic Settings/Image Quality]** using the ⊲⊳ buttons or the rear dial.

| 4. | Highlight | [Custom Mode] | l using the $\Delta  abla$ | buttons and | press the <b>OK</b> button. |
|----|-----------|---------------|----------------------------|-------------|-----------------------------|
|----|-----------|---------------|----------------------------|-------------|-----------------------------|





Saving Custom Settings to the Mode Dial (**C1**, **C2**, **C3**, and **C4** Custom Modes)

**5.** Highlight the desired custom mode (**[C1]** – **[C4]**) using  $\Delta \nabla$  buttons and press the **OK** button.

**6.** Highlight [**Recall**] using the  $\Delta \nabla$  buttons and press the **OK** button.

- **7.** Highlight **[Yes]** using the  $\Delta \nabla$  buttons and press the **OK** button.
- 8. Press the MENU button to exit the menus.
- When you recall a setting while the mode dial is set to C1, C2, C3, or C4, the shooting mode also changes to the saved mode.
- Settings recalled by pressing a button to which [C1] [C4] (Custom Mode C1-4) has been assigned
  - in [ Button Function] (P.334) cease to apply when you:
  - Turn the camera off
  - Rotate the mode dial to another setting
  - Press the **MENU** button during shooting
  - Perform a reset
  - Save or recall custom settings





# Saving the Changes Made to Settings while in Custom Modes

You can save the changes made to settings while in custom modes in the camera. The changed settings remain even if you rotate the mode dial. Custom modes can be used in much the same way as modes **P**, **A**, **S**, **M**, and **B**.

- 1. Press the **MENU** button to view the menus.
- **2.** Highlight the  $\Box_1$  tab using the front dial.
- **3.** Highlight **[1. Basic Settings/Image Quality]** using the  $\triangleleft \triangleright$  buttons or the rear dial.
- **4.** Highlight **[Custom Mode]** using the  $\Delta \nabla$  buttons and press the **OK** button.
- **5.** Highlight the desired custom mode ([C1] [C4]) using  $\Delta \nabla$  buttons and press the **OK** button.
- **6.** Highlight [Save Settings] using the  $\Delta \nabla$  buttons and press the **OK** button.
- **7.** Highlight [Hold] using the  $\triangleleft \triangleright$  buttons and press the **OK** button.
- **8.** Press the **MENU** button to exit the menus.

# **Recording Movies**

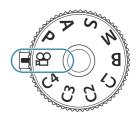
- (2) When recording movies, use an SD card that supports an SD speed class of 10 or higher.
- ( A UHS-II or UHS-I card with a UHS speed class of 3 or better is required when:
  - a movie resolution of **[4K]** or **[C4K]** is selected in the **[A ··]** menu or a Motion Compensation of **[A-I]** (All-Intra) is selected in the **[A ··]** menu
- When the camera is used continuously for extended periods, the temperature of the image sensor will rise and noise and color splotches may be visible in the display. Should this occur, turn the camera off and wait for it to cool. Noise and color splotches are particularly likely to occur at high ISO sensitivities. If the temperature of the sensor increases further, the camera will turn off automatically.
- (2) When using a Four Thirds system lens, AF will not be available during movie recording.
- () The sound of touch operations and button operations may be recorded.
- CMOS image sensors of the type used in the camera generate a so-called "rolling shutter" effect that can cause distortion in pictures of moving objects. This distortion is a phenomenon that occurs in pictures of fast-moving subjects or if the camera is moved during shooting. It is particularly noticeable in pictures taken at long focal lengths.
- When an SDXC card is used, movies up to 3 hours long can be recorded. Movies over 3 hours are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 3-hour limit is reached).
- When an SD/SDHC card is used, movies over 4 GB in size are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 4 GB limit is reached).
- Divided movie files can be played back as a single movie. I "Playing back separated movies" (P296)
- When shooting a movie with the camera in portrait position, the information is recorded in portrait position. When the movie is played back on a computer or smartphone, it will be played back in the same orientation that it was shot in.

# Recording movies in movie mode ( $egin{smallmatrix} & & \\ & &$



Rotate the mode dial to  $\mathfrak{A}$  (movie mode) to record movies using the effects available in **P**, **A**, **S**, and **M** modes (P.79).

**1.** Rotate the mode dial to  $\mathfrak{A}$ .



- **2.** Press the **O** button to begin recording.
  - A beep is not heard when the camera focuses in movie mode.
  - Movie you are recording will be displayed on the monitor.
  - If you put your eye to the viewfinder, movie you are recording will be displayed in the viewfinder.
  - A red frame is displayed during movie recording (P.290).
  - You can change the focus location by tapping the screen while recording.
  - The camera will start the recording count and display the recording time.

**3.** Press the **O** button again to end recording.

### 



You can create movies that take advantage of the effects available in P, A, S, and M modes.

- **1.** Press the **MENU** button to view the menus.
- **2.** Highlight the  $\mathfrak{A}$  tab using the front dial.
- **3.** Highlight **[1. Basic Settings/Image Quality]** using the  $\triangleleft \triangleright$  buttons or the rear dial.
- **4.** Highlight [ $\mathfrak{A}$  Mode] using the  $\Delta \nabla$  buttons and press the OK button.

**5.** Highlight the desired mode using  $\Delta \nabla$  buttons and press the **OK** button.

| Ρ | Optimal aperture is set automatically according to the brightness of the subject.<br>Use the front dial or rear dial to adjust exposure compensation.  |
|---|--|
| A | Depiction of background is changed by setting the aperture.<br>Use the front dial to adjust exposure compensation and rear dial to adjust aperture.  |
| S | Shutter speed affects how the subject appears. Use the front dial to adjust exposure compensation and rear dial to adjust shutter speed.<br>Shutter speed can be set to values between 1/24 s and 1/32000 s.   |
| М | <ul> <li>Freely adjust both aperture and shutter speed.</li> <li>Use the front dial to select aperture value and the rear dial to select shutter speed.</li> <li>Choose from shutter speeds of 1/24–32000 s. Values of ISO 200–12800 are available using the [ B ISO] manual sensitivity control options.</li> <li>The display shows the difference between the exposure produced by the selected aperture and shutter speed and the optimal exposure metered by the camera. The display will flash if the difference exceeds ±3 EV.</li> <li>The option chosen for [ B MISO-A Upper/Default] (P.169) takes effect.</li> </ul> |

The low end of the shutter speed changes according to the frame rate of the movie record mode.

**6.** Press the **MENU** button to exit the menus.

[A Mode] can also be set from the super control panel. I "Setting with Super Control Panel/LV Super Control Panel" (P.91)

# **Recording movies in photo shooting modes**

# PASMB

Movies can be recorded in program AE mode even when the mode dial is not in the  $\mathfrak{P}$  position.

⑦[③REC] must be assigned to a button using [Button Function] (P.334).

- () The AF target takes on the shape selected for movie mode (P.78). Rotate the mode dial to
  - $\mathfrak{P}$  (movie mode) and choose target shape in the AF target selection display (P.106).
  - 1. Press the button to which [**OREC**] has been assigned to begin recording.
    - "
       REC", the recording time, and a red frame are displayed during movie recording (P.290).



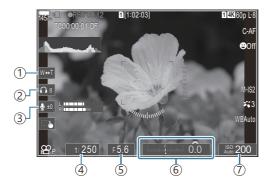
(1) Recording time

- If you put your eye to the viewfinder, movie you are recording will be displayed in the viewfinder.
- You can change the focus location by tapping the screen while recording.
- **2.** Press the button again to end recording.
  - When recording ends, "• REC", the recording time, and the red frame are cleared from the display (P.290).
- ② Even if you press a button to which [③REC] has been assigned, you cannot record movies in the following instances:
  - During a multiple exposure (still photography also ends), while the shutter button is pressed halfway, during sequential shooting, time-lapse photography, keystone compensation, or fisheye correction, or while live ND shooting or live GND shooting are in use

# **Touch Controls (Silent Controls)**

# PASMB 🎛

You can prevent the camera from recording operating sounds that occur due to camera operations while shooting. After tapping an item, tap the displayed arrows to select the settings.



- (1) Electronic Zoom: Zoom power zoom lenses in or out.
- (2) Headphone Volume: Adjust volume when using headphones.
- (3) **Sound Recording Level**: Choose the recording level.
- ④ Shutter Speed: Adjust shutter speed when [S] (shutter-priority AE) or [M] (manual) is selected for [Ŷ Mode] (movie exposure mode) (P.79).
- (5) **Aperture Value**: Adjust aperture value when **[A]** (aperture-priority AE) or **[M]** (manual) is selected for **[<sup>Ω</sup>Mode]** (movie exposure mode) (P.79).
- (6) **Exposure Comp.**: Adjust exposure compensation. If **[M]** is selected for **[☎ Mode]** (movie exposure mode) (P.79), exposure compensation is available when **[Auto]** is selected for **[☎ ISO]** (P.166).
- (7) P ISO: Adjust [P ISO] (P.166). This option is available when [M] is selected for [P Mode] (movie exposure mode) (P.79).
- (P.214).
- You can configure the camera so that silent controls using the touch panel can also be used during still photography. Silent Operation (P.371)

# **Shooting Settings**

# How to change the shooting settings

The camera offers many photography-related functions. Depending on how often you use them, you can access settings via buttons, icons in the display, or menus that can be used for detailed adjustments.

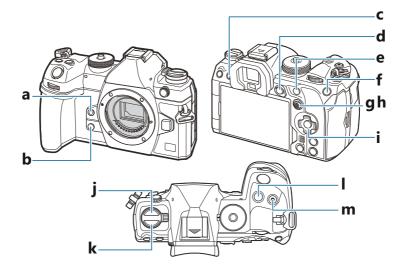
| Method   | Description  |  |  |
|--|--|--|--|
| Direct Buttons                                 | <ul> <li>Adjust settings directly using buttons, including those listed below.</li> <li>Commonly-used functions are assigned to buttons for quick access during viewfinder photography (P.84).</li> <li>The controls that can be so used include the 図, 回めな, and ISO buttons.</li> </ul> |  |  |
| LV super control panel/<br>super control panel | Choose from a list of settings showing current camera status. You can also view current camera settings (P.89).  |  |  |
| Menu   | In addition to shooting and playback options, the menus contain options that let you customize the operation and display of the camera, and set up the camera (P.96).  |  |  |

# **Direct Buttons**

# **Functions and Direct Buttons**

Frequently-used photographic functions are assigned to buttons. These are referred to as "direct buttons". They are useful when changing the settings frequently according to the subject.

The buttons to which functions can be assigned are listed below.



### Direct buttons during photo shooting

|   | Direct button    | Assigned function                             |
|---|------------------|---|
| а | Direction Button | One-touch white balance (P.231)               |
| b | I Button         | Preview (P.360)                               |
| с | OI (LV) button   | Display (monitor/viewfinder) selection (P.47) |
| d | AEL button       | AEL (P.160)                                   |

|   | Direct button  | Assigned function                                   |
|---|--|---|
| е | AF-ON button   | AF-ON (P.116, P.117)                                |
| f | ISO button   | ISO sensitivity (P.166)                             |
| g | Multi selector (©)   | [-::-] (AF Target Point) (P.105)                    |
| h | Multi selector (())  | Off <sup>1</sup>                                    |
| i | Arrow pad ( $\Delta \nabla \triangleleft \triangleright$ ) | Off <sup>1</sup>                                    |
| j | □0\$ button <sup>2</sup>                                   | Sequential/self-timer shooting/flash (P.179, P.190) |
| k | AF  button <sup>2</sup>                                    | AF/metering mode (P.159)                            |
| Ι | ☑ button   | Exposure compensation (P.152)                       |
| m | ● (Ⅲ) button   | High Res Shot (P.239)                               |

1 No function is assigned by default.

Buttons excluding the D S and AF D buttons can be assigned different roles.
 "Changing the roles of buttons (Button Settings)" (P.334)

### Direct buttons during movie recording

|   | Direct button  | Assigned function                             |
|---|----------------|---|
| а | 🖉 Button       | Peaking (P.146)                               |
| b | I Button       | Zoom (P.111)                                  |
| С | OI (LV) button | Display (monitor/viewfinder) selection (P.47) |
| d | AEL button     | AEL (P.160)                                   |

|   | Direct button  | Assigned function                |
|---|--|----------------------------------|
| е | AF-ON button   | AF-ON (P.116, P.117)             |
| f | ISO button   | ISO sensitivity (P.166)          |
| g | Multi selector (©)   | [-::-] (AF Target Point) (P.105) |
| h | Multi selector (🗐)   | Off <sup>1</sup>                 |
| i | Arrow pad ( $\Delta \nabla \triangleleft \triangleright$ ) | Off <sup>1</sup>                 |
| k | AF  button <sup>2</sup>                                    | AF/metering mode (P.159)         |
| I | ☑ button   | Exposure compensation (P.152)    |
| m |  | Movie recording (P.78)           |

1 No function is assigned by default.

<sup>2</sup> Buttons excluding the AF button can be assigned different roles. Changing the roles of buttons (Button Settings)" (P.334)

For information on how each direct button function works, see the explanation page of each function.

# **Setting with Direct Buttons**

This section explains how to operate when a selection menu is displayed, using **[AF Mode]** as an example.

- **1.** Press the button of the function you want to use.
  - Press the AF 🕑 button.
  - A selection menu appears.



**2.** Rotate the front/rear dial so select a setting.

- Setting values can also be selected by tapping the screen.
- You can also use the  $\Delta \nabla \triangleleft \triangleright$  buttons.
- If setting values appear at the top and bottom of the display when you press the button in Step 1, use the following buttons.

 $\Delta \nabla$ : Selects items displayed at the top.

 $\triangleleft \triangleright$ : Selects items displayed at the bottom.

- In this example, rotate the rear dial to set [AF Mode].
- Press the shutter button halfway to save the current setting and exit to the shooting display.
- You can also return to the shooting display by pressing the button you pressed in Step 1.
- With some functions, further detailed settings are available after selecting the setting in Step 2. For information on how to operate, see the explanation of each function.

In this manual, the procedure for changing a setting using a direct button is shown as follows.

Button • AF Button → ≫

# Quickly changing the setting while keeping the button pressed

Some settings can be changed by rotating the front/rear dial while keeping the button of the function pressed.

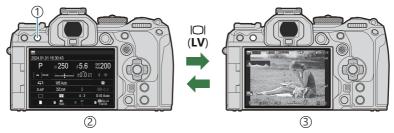
The setting screen closes when you release the button.

# LV Super Control Panel/Super Control Panel

# On LV Super Control Panel/Super Control Panel

The super control panel/LV super control panel lists shooting settings and their current values. Use the super control panel when framing shots in the viewfinder, the LV super control panel when framing shots in the monitor ("live view").

• In photo shooting mode, pressing the IOI button switches between viewfinder photography and live view photography.



1 OI (LV) button

- (2) Viewfinder photography (monitor turns off while viewfinder is on)
- ③Live view photography

### Super Control Panel (Viewfinder Photography)

When you frame subjects in the viewfinder, the super LV control panel will be displayed in the monitor at all times. Press the **OK** button to activate the cursor.

| 100%        |              |                   |                      |    | o            |         |                   |                      |
|-------------|--------------|-------------------|----------------------|----|--------------|---------|-------------------|----------------------|
| 2024.01.01  | 16:30:43     |                   |                      |    | Shooting Mo  | pae     |                   |                      |
| Р           | 1/250        | ⊧5.6              | ISO 200              | ок | Р            | 1/250   | ⊧5.6              | ISO 200              |
| [ ∎∎ ]Small |              | t ±0.̂0⊠          |                      |    | [ III ]Small | ատո     | t ±0.0 ⊠          | * 🗢                  |
| <b>*</b> 3  | WB Auto      |                   | *                    |    | <b>*</b> 3   | WB Auto |                   | *                    |
| S-AF        | DC Off       |                   | <b>252</b> 1±0.3     |    | S-AF         | Dff Off | \$                | 2022 ±0.3            |
|             | Ð            | 4:3               | S-IS Auto            |    |              | Ð       | 4:3               | S-IS Auto            |
|             | I UF<br>1023 | <b>⊡</b> ■ F<br>0 | 4K60p L-8<br>1:02:03 |    |              | 1023    | <b>₽ ■</b> F<br>0 | 4560p L-8<br>1:02:03 |

### LV Super Control Panel (Live View Photography)

To display the LV super control panel in the monitor, press the **OK** button during live view.



# Setting with Super Control Panel/LV Super Control Panel

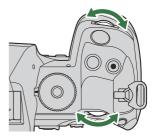
This section explains how to operate super control panel/LV super control panel using **[Subject Detection]** as an example.

- 1. Press the OK button.
  - If you press the button during live view, the LV super control panel will be displayed in the monitor.
  - The last setting used will be highlighted.



(1)Cursor

| Subject Det | ection  |        | 192 A.M.B.           |
|-------------|---------|--------|----------------------|
| P           | 1/250   | ⊧5.6   | ISO 200              |
| [ ‼ ]Small  | ī       | ±0.0 ⊠ |                      |
| *:3         | WB Auto |        | *                    |
| S-AF        | 192.Off |        | ₩22 ±0.3             |
|             |         | 4:3    | S-IS Auto            |
|             | 1 1023  |        | 4560p L-8<br>1:02:03 |



- **2.** Highlight an item using  $\Delta \nabla \triangleleft \triangleright$ .
  - The selected setting will be highlighted.
  - The name of the selected function appears.
  - You can also highlight items by tapping them in the display.
- **3.** Rotate the front/rear dial to change the highlighted setting.

• Press the shutter button halfway to save the current setting and exit to the shooting display.

In this manual, the procedure for changing a setting using a direct button is shown as follows.

#### Super control panel

• OK ➡ Subject Detection

## **Additional Options**

Pressing the **OK** button or tapping the item in Step 2 displays options for the highlighted setting.

You can also configure items by tapping the setting values directly in the display.

In some cases, additional options can be configured.



OK button
 INFO button



①LV Super Control Panel/Super Control Panel display

2 Selection menu display

③Detailed setting display

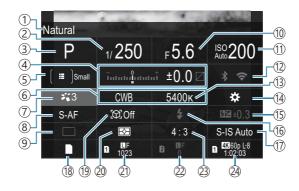
# Settings Available in the Super Control/LV Super Control Panel

### Photo shooting mode

#### Super control panel



#### LV super control panel



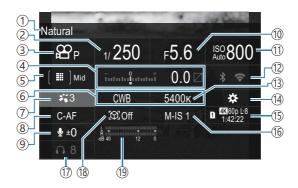
- 1 Name of the currently selected option
- 2 Shutter Speed (P.58, P.63)
- (3) Shooting Mode (P.58)
- (4) Exposure Compensation/Highlight & Shadow Control (P.152 / P.344)
- (5) AF Target Mode (P.106)
- 6 White Balance (P.228)
- 7 Picture Mode (P.220)
- 8 AF Mode (P.100)
- (9) Drive (sequential/self-timer shooting) (P.190)
- (10) Aperture Value (P.58, P.61)
- 1 ISO Sensitivity (P.166)
- 12 Wi-Fi/Bluetooth (P.426)
- (13 Color Temperature (P.228)

- (14) Button Function (P.334)
- (15) Flash Intensity Control (P.184)
- (16) Flash Mode (P.179)
- 17 DImage Stabilizer (P.204)
- 18 Save Settings (P.389)
- (19) Subject Detection (P.120)
- 20 Metering (P.159)
- 2) Slot 1 Dimage Quality, Number of Storable Still Pictures (P.211, P.553)
- ②Slot 2 Image Quality, Number of Storable Still Pictures (P.211, P.553)
- 23 Aspect Ratio (P.218)
- (2) Movie Quality, Available Recording Time (P.212, P.556)

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### Movie recording mode

#### LV super control panel



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- 1)Name of the currently selected option
- 2 Shutter Speed (P.79)
- ③ ♀ Mode (Movie Exposure Modes) (P.79)
- (4) Exposure Compensation/Highlight & Shadow Control (P.152 / P.344)
- (5) ♀ AF Target Mode (P.106)
- ⑥ ₩ White Balance (P.228)
- ⑦ ₽ Picture Mode (P.220)
- ⑧ ♀ AF Mode (P.100)
- (9) Sound Recording Level (P.82)

- (1) Aperture Value (P.79)
- <sup>①</sup> ISO sensitivity (P.166)
- (12) Wi-Fi/Bluetooth (P.426)
- (13) Color Temperature (P.228)
- 14 Button Function (P.334)
- (ⓑ ☎ Movie Quality, Available Recording Time (P.212, P.556)
- 16 Parage Stabilizer (P.204)
- (17) Headphone Volume (P.82)
- (18) Subject Detection (P.120)
- (19) Sound Recording Level Meter (P.82)

# Using the menu

# What you can do with menus

In addition to shooting and playback options, the menus contain options that let you customize the operation and display of the camera, and set up the camera.

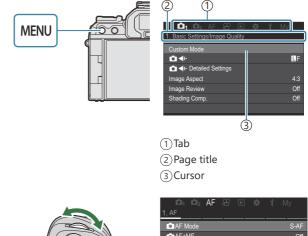
There are several tabs which represent function categories, and related functions are contained in each page.

# How to operate the menus

| Front dial                | Select a tab.                                   |
|---------------------------|---|
| ⊲⊳/Rear dial              | Select a page.                                  |
| ${\bigtriangleup} \nabla$ | Move the cursor.                                |
| OK button                 | Confirm the setting/proceed to the next screen. |
| MENU button               | Cancel operation/return to previous screen.     |

The following explanation uses [PAF Mode] as an example.

**1.** Press the **MENU** button to view the menus.

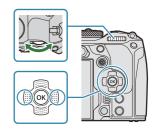


- **2.** Use the front dial to select the desired tab.
  - [AF Mode] can be found in the [AF] tab. Rotate the front dial until the [AF] tab is highlighted.
  - You can also tap the tab icon to switch to the tab.



| 📫 📫 2 AF 🏦 🖻 🔅        |      |
|-----------------------|------|
| 1. AF                 |      |
| AF Mode               | S-AF |
| AF+MF                 | Off  |
| Starry Sky AF Setting |      |
| AF by half-pressing   |      |
| AF-ON in MF mode      | No   |
| Release Priority      |      |
|                       |      |

**3.** Use  $\triangleleft \triangleright$  or the rear dial to select the desired page.

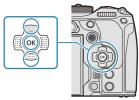


• [☆AF Mode] can be found on the 5th page, [5. Movie AF]. Press ⊲▷ or rotate the rear dial until the [5. Movie AF] is highlighted.



①Page guide

- You can tap the page guide to change the page.
- **4.** Highlight [ $\mathfrak{P} \operatorname{AF} \operatorname{Mode}$ ] using the  $\Delta \nabla$  buttons and press the **OK** button.



| □011 □012 AF 않 ⊫ ÷<br>5. Movie AF | <b>⇔ ì</b> My | □ <b>□ □ □ □ □ □ □ □ □ □</b> | ▶ ☆ î My |
|-----------------------------------|---------------|------------------------------|----------|
| AF Mode                           | C-AF          | AF Mode                      | S-AF     |
| PC-AF Speed                       | ±0            | C-AF Speed                   | C-AF     |
| C-AF Sensitivity                  | ±0            | C-AF Sensitivity             |          |
|                                   |               | •                            | S-AF MF  |
|                                   |               |                              | C-AF+TR  |
|                                   |               |                              | Pre MF   |
|                                   |               |                              |          |
|                                   |               |                              |          |

1) The configured item will be displayed.

- **5.** Use  $\Delta \nabla$  to highlight an option and press the **OK** button to select.
  - The setting is confirmed.
  - Pressing the **MENU** button closes the menu.
  - The procedure after selecting an item and pressing the **OK** button in Step 4 varies depending on the menu item.
  - Some menu items require further settings after you select an option in Step 5.

In this manual, the procedure for selecting menu items is shown as follows.



 $otin ext{You}$  can use the multi selector in place of  $\Delta 
abla riangle riangle$  to select menus.

*<sup>j</sup>* To cancel menu operation, press the **MENU** button.

& For the default settings of each option, refer to "Default Settings" (P.510).

# Displaying the description of a menu item

When you press the **INFO** button while a menu item is selected, the description of the menu is displayed.



|       | 🕮 📫 💁 AF 😫 🖻 🎄 🕇 My             |  |
|-------|---------------------------------|--|
| 1. Co | High Res Shot                   |  |
|       |                                 |  |
|       | Takes and combines multiple     |  |
|       | pictures to create a super high |  |
|       | resolution image.               |  |
|       |                                 |  |
|       |                                 |  |
|       |                                 |  |

# Items shown in gray

If an item is currently unavailable due to the condition of the camera or other settings, it is shown in gray.

When you press the **OK** button while a gray item is highlighted, the reason it is not available is displayed.

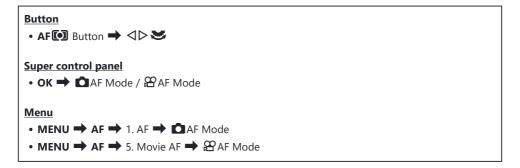
| Din Ding AF 23 ⊡ AF Ì My<br>2.AF  |    | 01,02 AF 22 * 1 M   | /   |
|---|----|---|-----|
| Subject Detection Off   | ок | This item cannot be selected<br>for the following reason. | Off |
| OC-AF Setting Image: Image of the set of the |    |   |     |
| Eye Detection Frame On  |    | Eye Keystone Comp.  | On  |
|   |    |   |     |
|   |    |   |     |

# **Basic functions for focusing**

# Choosing a focus mode (CAF Mode / AF Mode)

## PASMB

You can select a focusing method (focus mode).



| S-AF (Single<br>AF)        | The camera focuses once when the shutter button is pressed halfway or the <b>AF-ON</b> button is pressed. When the focus is locked in still photography mode, a beep sounds, and the AF confirmation mark and the AF target mark light up. When the focus is locked in movie recording mode, the AF confirmation mark and the AF target are displayed. This mode is suitable for taking pictures of still subjects or subjects with limited movement.  |
|----------------------------|--|
| C-AF<br>(Continuous<br>AF) | In photo shooting mode, the camera repeats measuring the distance between<br>the subject and the camera and focusing while the shutter button remains<br>pressed halfway or while the <b>AF-ON</b> button is pressed. When the subject is in<br>focus, the AF confirmation mark lights up on the monitor and the beep sounds<br>when the focus is locked at the first time.<br>In movie recording mode, the camera repeats focusing both before and during<br>recording.<br>This mode is suitable when the distance to the subject keeps changing. |

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| MF (Manual<br>focus)   | This function allows you to manually focus on any position by operating the focus ring on the lens.<br>(1) Near<br>(2) $\infty$<br>(3) Focus ring   |
|--|---|
| S-AF MF  | The camera focuses in S-AF mode. You can adjust the focus position by operating the focus ring on the lens.   |
| C-AF+TR (AF<br>tracking)                                     | <ul> <li>Press the shutter button halfway or press the AF-ON button to focus; the camera then tracks and maintains focus on the current subject while the button is held in position.</li> <li>In movie recording mode, the camera continues AF tracking even if you release the button before you start recording. To stop it, press the OK button.</li> <li>When you start recording a movie while the camera is tracking the subject, it will continue tracking.</li> <li>AF tracking always operates during recording.</li> <li>During AF tracking, a white frame is displayed on the subject being tracked.</li> <li>If the tracked subject is lost, the frame will be displayed in gray. Release the button and then frame the subject again and press the shutter button halfway or press the AF-ON button.</li> <li>If [On2] is selected for [AF Area Pointer], AF targets will appear at the areas in focus instead a white frame.</li> <li>When using AF tracking (P:106), [[iiii]]AII] cannot be selected for AF target mode.</li> <li>Tracking AF cannot be used with: <ul> <li>keystone compensation, High Res Shot, focus bracketing, focus stacking, interval-timer photography, HDR photography, live ND shooting, live GND shooting, fisheye compensation</li> </ul> </li> </ul> |
| Pre MF (Preset<br>MF)  | The camera automatically focuses on the preset focus point when shooting.   |
| ☆AF (Starry<br>Sky AF)<br>(only during<br>photo<br>shooting) | Choose this mode for pictures of stars in the night sky. Press the <b>AF-ON</b> button to focus on the stars. <b>I</b> "Using Starry Sky AF" (P.102)  |

⑦ [S-AF M] only appears in [ AF Mode].

To focus manually during autofocus when taking pictures, use [**AF+MF**]. **F** "Combined Auto and Manual Focus (**AF+MF**)" (P.113)

- (P.120). (P.120).
- ⑦ The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast.
- () The camera may fail to track the subject depending on its type or on shooting conditions.
- (2) When using a Four Thirds system lens, AF will not be available during movie recording.
- (P [AF Mode] selection is not available when the lens focus ring is in the MF position and [Operative] is selected for [MF Clutch] (P.149) (P.475).
- The Fn lever can be used to quickly switch the AF mode. I "Customizing the Fn Lever (Fn Lever Settings)" (P.352)
- You can choose whether the camera focuses when the shutter button is pressed halfway.
   "Configuring the AF operation when the shutter button is pressed ( AF by half-pressing )" (P.115)

# **Using Starry Sky AF**

- 1. Select [XAF] for AF mode.
- 2. Press the AF-ON button to initiate starry sky AF.
  - To interrupt starry sky AF, press the AF-ON button again.
  - You can configure the camera so that starry sky AF starts when the shutter button is pressed halfway. I "Changing the settings of Starry Sky AF (Starry Sky AF Setting)" (P.119)
  - The camera displays [Starry Sky AF is Running] during starry sky AF. The in-focus indicator
     (●) is displayed for about two seconds after the camera focuses; if the camera is unable to
     focus, the in-focus indicator will instead flash for about two seconds.
- **3.** Press the shutter button the rest of the way down to take the picture.
- (2) The camera will not be able to focus in bright locations.
- () Starry sky AF cannot be used with Pro Capture.
- ③ Starry sky AF cannot be used if a setting other than [Off] is selected for [Subject Detection] (P.120).
- ① [ Orientation Linked [::-]] (P.136), [[::-] Loop Settings] (P.141), [ AF Limiter] (P.129), [AF Illuminator] (P.134), and [ AF Scanner] (P.131) are fixed at [Off] and [Frame Rate] (P.364) is fixed at [Normal].

- Manual focus is selected when a Four Thirds lens is attached.
- ② Starry sky AF is available with Micro Four Thirds lenses made by OM Digital Solutions or OLYMPUS. It cannot, however, be used with lenses with a maximum aperture over f/5.6. For more information, visit our website.
- [AF Priority] (P.119) in [Starry Sky AF Setting] offers a choice of [Accuracy] and [Speed]. Mount the camera on a tripod before taking photographs with [Accuracy] selected.
- SThe camera automatically focuses at infinity when starry sky AF is selected.
- When [On] is selected for [Release Priority] in [Starry Sky AF Setting], the shutter can be released even when the subject is not in focus.

### Setting a focus position for Preset MF

- 1. Select [PreMF] with the AF D button, and press INFO button.
- **2.** Press the shutter button halfway to focus.
  - Focus can be adjusted by rotating the focus ring.
- 3. Press the OK button.

SThe distance for the preset focus point can be set with [Preset MF distance] (P.148).

& The camera also focuses at the preset distance:

- when turned on and
- when you exit the menus to the shooting display.

## **Adjusting Focus Manually During Autofocus**

- Select [On] for [CAF+MF] (P.113) in advance. ME is displayed next to [S-AF], [C-AF], [C-AF+TR], or [AF].
  - **1.** Choose a focus mode marked with a **MF** icon (P.100).
    - When recording movies, choose [S-AF ME].
  - **2.** Press the shutter button halfway to focus using autofocus.
    - When using [XAFMF], press the AF-ON button to initiate Starry Sky AF.

- 3. Keeping the shutter button pressed halfway, rotate the focus ring to adjust focus manually.
  - To refocus using autofocus, release the shutter button and press it halfway again.

Manual focus adjustment during autofocus is not available in [XAFMF] mode.
 Manual focus adjustment during autofocus is available via the focus ring on M.ZUIKO PRO (Micro Four Thirds PRO) lenses. For information on other lenses, visit our website.

**4.** Press the shutter button the rest of the way down to take the picture.

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# **Choosing a Focus Target (AF Target Point)**

# PASMB 🎛

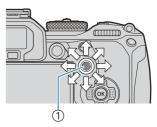
The frame showing the location of the focus point is referred to as the "AF target". You can position the target over your subject. At default settings, the multi selector is used to position the AF target.

1. Use the multi selector to position the AF target.

press and hold the **OK** button.

• The AF target is displayed at the start of the operation.

• To select the center AF target, press the multi selector or



1 Multi selector

Small
 S

& You can choose whether AF target selection "wraps around" the edges of the display (P.141).

- **2.** Release the shutter.
  - The AF target selection display will clear from the monitor when the shutter button is pressed halfway.
  - The AF frame is displayed in the position of the selected AF target.
- You can reposition the AF target during focusing when [C-AF] or [C-AF MF] is selected in still photography mode.
- &-You can also reposition the AF target during movie recording.
- & The size and number of the AF target changes depending on shooting settings.
- When [On] is selected for [AF Targeting Pad] (P.143), you can reposition the AF target using monitor touch controls while framing your subject in the viewfinder.

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# Choosing an AF Target Mode (AF Target Mode)

## PASMB 🎛

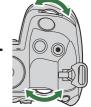
#### **Button**

• 🗐 (kept pressed) and 🕿

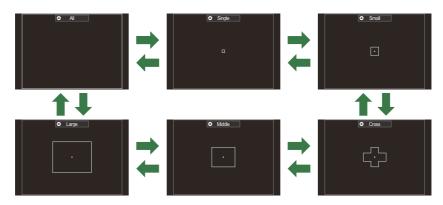
#### Super control panel

- OK ➡ AF Target Mode
- **1.** Keep the multi selector pressed while rotating the front or rear dial.





• The camera cycles through AF target modes as shown.



- The AF target modes to be displayed can be selected in [ AF Target Mode Settings] (P.109).

#### [IIII]AII

The camera chooses the target used for focus from all available targets.

• The camera chooses from 1053 (39 × 27) targets during still photography and from 741 (39 × 19) targets in movie mode.

#### [ · ]Single

Select a single focus target.

#### [ I Small

Select a small-sized group of targets. The camera chooses the target used for focus from within the selected group.

#### [#]Cross

Select a group of targets arranged in a cross. The camera chooses the target used for focus from within the selected group.

#### [ III ] Middle

Select a middle-sized group of targets. The camera chooses the target used for focus from within the selected group.



Single













#### [ 🏼 ] Large

Select a large-sized group of targets. The camera chooses the target used for focus from within the selected group.



#### [≡≡]C1–[≡≡]C4 Custom Target

You can change the size of the AF target and the step (the distance it moves at one time). Custom target modes can be selected when there is a check ( $\checkmark$ ) next to a custom target in [**C** AF Target Mode Settings] (P.109).

- 2. Release the multi selector when the desired mode is displayed.
  - AF target mode options will no longer be displayed.
- & The number of AF targets available may be reduced depending on shooting settings.
- The AF target display can be accessed by pressing the multi selector. The multi selector can be configured using [@Center Button] (P.351).
- Separate AF target modes can be selected according to camera orientation. I Matching AF Target Selection to Camera Orientation (Orientation Linked [:::])" (P.136)
- The following focus settings can be recalled simultaneously using the **Fn** lever. Separate settings can be assigned to Positions 1 and 2 of the **Fn** lever. Use this option to quickly adjust settings according to shooting conditions.

- [AF Mode] (P.100), [AF Target Mode] (P.106), and [AF Target Point] (P.105)

The Fn lever can be configured using the [ The Fn Lever Function] (P.353) item or the [ Fn Lever Function] (P.354) item.

- & You can adjust AF target settings for **[C-AF]**. **W** [**C**-AF Center Priority] (P.126)
- Separate options can be selected for still photography and movie mode.

## Setting the options for CAF target modes (CAF Target Mode Settings)



Specify which options are displayed when setting the DAF Target Mode.



- Select the AF target modes that you want to have displayed as options and put a check (✓) next to each of them.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.

|   | ✓ []Ali          |
|---|------------------|
|   | ✓ [ · ]Single    |
|   | ✓ [ #]Cross      |
|   | ✓ [ 🏼 ]Mid       |
|   | ✓ [ IIII]Large   |
|   | [≡]C1 >          |
|   | [ <b>≡]</b> C2 > |
| 5 | ⊠ OK             |

AF Target Mode Settings screen

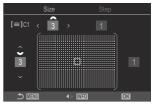
## []All, [ · ]Single, [ ⊕ ]Cross, [ ]Mid, [ ]Large

If you put a check ( $\checkmark$ ) next to an option, it will be displayed as the option when selecting the AF target.

### [==]C1-[==]C4

If you put a check ( $\checkmark$ ) next to an option, it will be displayed as the option when selecting the AF target.

Press  $\triangleright$  to configure the size of the AF target and the step (the distance it moves at one time).



| Item | Horizontal   | Vertical  |
|------|--|---|
| Size | 12 types (1 / 3 / 5 / 7 / 9 / 11 / 15 / 19 / 23 /<br>27 / 33 / 39)<br>Switch using ⊲▷ or the front dial. | 10 types (1 / 3 / 5 / 7 / 9 / 11 / 15 / 19 / 23 / 27)<br>Switch using $\Delta \nabla$ or the rear dial. |
| Step | 8 types (1 to 8)<br>Switch using $\triangleleft \triangleright$ or the front dial.                       | 5 types (1 to 5)<br>Switch using $\Delta  abla$ or the rear dial.                                       |

Press the **INFO** button to switch between Size and Step.

## Zoom frame AF/Zoom AF (Super Spot AF)

## PASMB

You can zoom in on the display during shooting. For greater precision during focusing, zoom in on the focus area. At higher zoom ratios, you can focus on areas smaller than the standard focus target. You can reposition the focus area as desired during zoom.

#### **Button**

- A button to which  ${f Q}$  has been assigned

⑦ Before you will be able to use Super Spot AF, you must use [Button Function] (P.334) to assign [Q] (P.336) to a camera control.



OK<sup>1</sup>

①Shooting display

- ②Zoom frame AF display
- ③Zoom AF display
  - 1 You can also return to the shooting display by pressing and holding the button you assigned **[Q]** (magnify) to instead of the **OK** button.

- **1.** Press the button to which **[Q]** (magnify) is assigned.
  - The zoom frame will be displayed.



- **2.** Position the frame using the multi selector.
  - To re-center the frame, press the multi selector or press and hold the **OK** button.
  - The frame can also be positioned using the arrow pad  $(\Delta \nabla \triangleleft \triangleright)$ .
- **3.** Adjust the size of the zoom frame to choose the zoom ratio.
  - Press the **INFO** button and then use the  $\Delta \nabla$  buttons or the front or rear dial to adjust the size of the zoom frame.
  - Press the **OK** button to accept and exit.
- **4.** Press the button to which **[Q]** is assigned once more.
  - The camera will zoom the selected area in to fill the display.
  - Use the front or rear dial to zoom in or out.
  - Use the multi selector to scroll the display.
  - Use  $\Delta \nabla \triangleleft \triangleright$  to scroll the display.
  - If the shooting mode is **M** (manual) or **B** (bulb) and [ISO Auto] is not selected, you can press the **INFO** button during zoom to choose aperture or shutter speed.
  - Press the  ${\bf Q}$  button to return to the zoom frame.
  - Press the **OK** button to end focus zoom.
  - You can also end focus zoom by pressing and holding the  ${\bf Q}$  button.









Exposure adjustment display for modes **M** and **B** 

() Focus zoom applies to the display only. Pictures taken with the camera are not affected.

⑦ Zoom AF does not work during zoom display and when using a Four Thirds system lens.

O When [O Digital Tele-converter] is [On] in movie recording mode, camera cannot zoom.

& Pictures can also be taken during zoom frame AF display and zoom AF display.

Touch controls can be used for focus zoom. Solution with touch screen operations" (P.54)
You can configure the camera to exit focus zoom when the shutter button is pressed halfway to

focus. I C "Choosing What Happens When the Shutter Button Is Pressed During Live View Zoom (LV Close Up Mode)" (P.359)

## Functions for configuring how to focus

## Combined Auto and Manual Focus (CAF+MF)



After focusing using autofocus, you can adjust focus manually by keeping the shutter button pressed halfway and rotating the focus ring. Switch from auto to manual focus at will or fine-tune focus manually after focusing with autofocus.

&-The procedure varies with the AF Mode selected (P.100).

Menu • MENU → AF → 1. AF → C AF+MF

Manual focus adjustment enabled during autofocus. **ME** is displayed next to **[S-AF]**, **[C-AF]**, **[C-AF+TR]**, or **[**X**AF**].

- When [S-AFMF] is selected, you can keep the shutter button pressed halfway or keep the AF-ON button pressed after focusing using single AF and adjust focus manually. Alternatively, you can switch to manual focus by rotating the focus ring while the camera is focusing. Focus can also be adjusted manually while the shutter is open and during burst photography.
- On
   When [C-AFME] or [C-AF+TRME] is selected, you can switch to manual focus by rotating the focus ring while the camera is focusing in continuous AF and continuous tracking AF modes. Press the shutter button halfway or press the AF-ON button a second time to refocus using autofocus. Focus can also be adjusted manually while the shutter is open and during burst photography.
  - When [**AFMF**] is selected, you can focus manually after focusing or before initiating focus using **A**F.

Off Manual focus adjustment disabled during autofocus.

⑦ Manual focus is not available during burst photography in [♥□ SH1] or [ProCap SH1] mode.

- Autofocus with manual focus is also available when autofocus is assigned to other camera controls. (P.334) (P.334)
- The lens focus ring can be used to interrupt autofocus only when M.ZUIKO PRO (Micro Four Thirds PRO) lenses are used. For information on other lenses, visit our website.
- In B (bulb) mode, manual focus is controlled by the option selected for [Bulb/Time Focusing] (P.269).

# Configuring the AF operation when the shutter button is pressed (CAF by half-pressing )



You can choose whether the camera focuses when the shutter button is pressed halfway.

Menu • MENU → AF → 1. AF → C AF by half-pressing =

|                  | Set the AF operation for when the AF mode is <b>[S-AF]</b> .   |
|------------------|--|
| S-AF             | <b>[No]</b> : The camera does not start AF operation when the shutter button is pressed halfway.   |
|                  | <b>[Yes]</b> : The camera starts AF operation when the shutter button is pressed halfway. If you press the shutter button halfway while pressing the <b>AF-ON</b> button, autofocus will be continued. |
|                  |  |
|                  | Set the AF operation for when the AF mode is <b>[C-AF]</b> or <b>[C-AF+TR]</b> .   |
| C-AF/<br>C-AF+TR | Set the AF operation for when the AF mode is <b>[C-AF]</b> or <b>[C-AF+TR]</b> .<br><b>[No]</b> : The camera does not start AF operation when the shutter button is pressed halfway.                   |

## Autofocus using the AF-ON button

## PASMB 🎛

The camera starts AF operation when you press the **AF-ON** button. Autofocus ends when you release the **AF-ON** button. When you press the **AF-ON** button while the camera is performing autofocus because the shutter button has been pressed halfway, autofocus will be continued.

#### **Button**

• AF-ON button

If [C-AF] is selected for [AF Mode], the camera operates in S-AF mode when the AF-ON button is pressed during movie recording. If [C-AF+TR] is selected, the camera performs AF tracking when the AF-ON button is pressed.

## Using Autofocus in Manual Focus Mode (AFON in MF mode)

### PASMB

You can configure the camera so that it focuses with autofocus when you press the **AF-ON** button, even if the AF mode is **[MF]** or **[Pre MF]**.

| Menu                  |                  |
|-----------------------|------------------|
| • MENU ➡ AF ➡ 1. AF ➡ | AF-ON in MF mode |

| No  | If the AF mode is <b>[MF]</b> or <b>[Pre MF]</b> , the camera does not focus with autofocus even when the <b>AF-ON</b> button is pressed.           |
|-----|---|
| Yes | If the AF mode is <b>[MF]</b> or <b>[Pre MF]</b> , the camera focuses with autofocus in <b>[S-AF]</b> mode when the <b>AF-ON</b> button is pressed. |

## **Configuring camera operation when it cannot focus on the subject (Release Priority)**



You can choose whether the camera takes a picture when it cannot focus on the subject with autofocus.

| Menu<br>• MENU → AF → 1. AF → Release Priority |   |
|--|---|
|  |   |
| S-AF   | Set the camera operation for when the AF mode is <b>[S-AF]</b> and it cannot focus on the subject with autofocus.   |
|  | <b>[Off]</b> : If the camera cannot focus on the subject with autofocus, the shutter cannot be released even when the shutter button is pressed fully. If the flash is configured to fire, the shutter cannot be released until the flash is charged. |
|  | <b>[On]</b> : The shutter is released when the shutter button is pressed fully, even if the camera cannot focus on the subject with autofocus.  |
| C-AF/<br>C-AF+TR                               | Set the camera operation for when the AF mode is <b>[C-AF]</b> or <b>[C-AF+TR]</b> and it cannot focus on the subject with autofocus.   |
|  | <b>[Off]</b> : If the camera cannot focus on the subject with autofocus, the shutter cannot be released even when the shutter button is pressed fully. If the flash is configured to fire, the shutter cannot be released until the flash is charged. |
|  | <b>[On]</b> : The shutter is released when the shutter button is pressed fully, even if the camera cannot focus on the subject with autofocus.  |

## Changing the settings of Starry Sky AF (Starry Sky AF Setting)

### PASMB

You can configure the operation of the Starry Sky AF function.

## • MENU $\rightarrow$ AF $\rightarrow$ 1. AF $\rightarrow$ Starry Sky AF Setting

| AF Priority         | <b>[Accuracy]</b> : Prioritize focus accuracy over speed. Use a tripod.<br><b>[Speed]</b> : Prioritize focus speed over accuracy.   |
|---------------------|---|
| AF<br>Operation     | <ul> <li>[=]: Focuses with autofocus while the shutter button is pressed halfway.</li> <li>[AFON]: Focuses with autofocus while the AF-ON button is pressed.</li> <li>[AFON]Start/Stop]: Focusing starts when the AF-ON button is pressed. Press again to stop focusing.</li> </ul>   |
| Release<br>Priority | <ul> <li>[Off]:</li> <li>If [AF Operation] is set to [], the shutter cannot be released even when the shutter button is pressed fully, unless the camera is in focus.</li> <li>If [AF Operation] is set to [AFON] and the AF-ON button is pressed, the shutter cannot be released even when the shutter button is pressed fully, unless the camera is in focus.</li> <li>If the AF-ON button is not pressed, you can start shooting at any time by pressing the shutter button fully.</li> <li>If [AF Operation] is set to [AFON] and Start/Stop] and Starry Sky AF is being executed, shooting does not start even when the shutter button is pressed fully. If Starry Sky AF is not being executed, you can start shooting at any time by pressing the shutter button fully.</li> <li>[On]: Shooting starts when the shutter button is pressed fully, regardless of the setting of [AF Operation].</li> </ul> |

## Functions for customizing AF operation to fit the subject

## Tracking Focus on Selected Subjects (Subject Detection)

## PASMB 🎛

When focusing, the camera can detect people's faces and eyes, as well as fast-moving subjects. When shooting fast-moving subjects such as motorsports vehicles or airplanes, focusing can be difficult. This function allows the camera to track and focus on specific areas such as the driver or cockpit.

#### Menu

MENU → AF → 2. AF → Subject Detection

| 🕒 Human       | The camera detects people. It tracks focus on such elements as the face, head, eyes, and upper body.                                       |
|---------------|--|
| Motorsports   | The camera detects cars or motorcycles. It tracks focus on such elements as the chassis (chiefly of types used in motor sports) or driver. |
| 🗙 Airplanes   | The camera detects planes and helicopters. It tracks focus on such elements as the fuselage or cockpit.                                    |
| Trains        | The camera detects trains. It tracks focus on such elements as the cars or driver's compartment.   |
| 🍆 Birds       | The camera detects birds. It tracks focus on such elements as the head or eyes.  |
| 😈 Dogs & Cats | The camera detects cats, dogs, and similar animals. It tracks focus on such elements as the head or eyes.                                  |
| Off           | Tracking subject selection disabled.   |

When a setting other than [Off] is selected, [丞AF] ([丞AFME]) is set to [S-AF] ([S-AFME]), and
 [C-AF+TR] ([C-AF+TRME]) is set to [C-AF] ([C-AFME]).

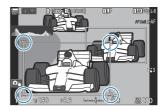
120

&-This function is disabled during high-speed movie recording (P.214).

## **Taking Pictures Using [Subject Detection]**

#### **1.** Point the camera at your subject.

 When the camera detects subjects, a white frame appears on the subject which is focused on. Gray frames appear on other subjects. On the subject which is focused on, an additional frame appears surrounding the white frame.



• If the white frame indicating a subject to be focused on does not appear, change the size and/or position of the AF target so that it covers the subject.

When the AF target mode is **[IIIII]** All, the subject closest to the center of the display is focused on.

• When the camera detects specific elements such as eyes or the cockpit, smaller white frames also appears on them.

These frames can be hidden from the menu (P.125).

#### Subject selection

- If the subject moves outside the configured AF target area, or if multiple subjects are detected, the white frame indicating the subject to focus on may disappear or change to another subject.
- The subject to focus on can be locked (fixed) by pressing the button to which the [2] Subject Selection] (P.336) function has been assigned in [Button Settings] (P.334). When the white frame for focusing is displayed, pressing the button causes the camera to lock onto that subject as the subject to focus on. When the white frame for focusing is not displayed, pressing the button causes the camera to selects and locks onto a subject close to the AF target as the subject to focus on.
- If multiple subjects are detected, you can select and lock onto the subject to focus on by rotating the front or rear dial while pressing the button.
- When eyes are detected while **[O Human]** is selected, you can select which eye to lock onto as the subject to focus on by rotating the front or rear dial while pressing the button.
- While locked onto a subject or eye, the word "Lock" will appear on the screen. While locked, you can quickly switch between subjects or eyes by moving the multi selector or pressing  $\Delta \nabla \triangleleft \triangleright$ .
- To unlock the focus, press the button to which the function is assigned again, or press the **OK** button. If the locked subject is lost, the focus will be unlocked.
- You can also tap to select the subject to focus on and lock or unlock the focus (P.54).

- 2. Press the shutter button halfway to focus.
  - You can also focus by pressing the AF-ON button (P.116).
  - When the camera focuses on a subject, a green frame appears on the focus position.
  - When the camera detects specific elements such as the driver or the cockpit, it focuses on them.
  - When **[C-AF]** or **[C-AF [M]**] is selected as the AF Mode, the camera will continue to track and focus on the subject with the white frame across the entire screen, even while the subject is in motion, until the button is released. The tracking area can be changed (P.123).
- **3.** Press the shutter button the rest of the way down to take the picture.
- () The camera may fail to detect the subject depending on the subject or art filter selected.
- ${}_{ar{O}}$  The camera may fail to detect the subject depending on its type or on shooting conditions.
- O If photographs are taken while the subject is locked (fixed) to focus with PuSH1 or ProCap
  - SH1 selected in the drive mode (P.190), the lock on the subject may be released.

## Configuring the C-AF operation when subject detection is enabled ( $\bigcirc$ C-AF Setting)

### PASMB

Configure the C-AF operation when shooting with subject detection enabled.

#### Menu

• MENU ➡ AF ➡ 2. AF ➡ �C-AF Setting

### C-AF Area

Configure the area within which C-AF tracking is performed when a specified subject is detected and focused on for still photography.

| All   | After focusing on the subject once, the camera keeps focusing on and tracking it across the entire shooting display. |
|-------|--|
| [-:-] | The camera tracks the focused subject in the selected AF target frame and remains focusing on the subject.           |

### 🛱 🏵 C-AF Area

Sets the area within which C-AF tracking is performed when a specified subject is detected and focused on for movie recording.

| All   | After focusing on the subject once, the camera keeps focusing on and tracking it across the entire shooting display. |
|-------|--|
| [-:-] | The camera tracks the focused subject in the selected AF target frame and remains focusing on the subject.           |

## Assigning focus priority to buttons (



Separate focus points can be configured for the shutter button and the **AF-ON** button when a subject is detected.

Menu

| • MEI | • MENU $\rightarrow$ AF $\rightarrow$ 2. AF $\rightarrow$ $\square$ $\heartsuit$ AF Button            |  |
|-------|---|--|
|       |   |  |
|       | Select the AF operation for when the shutter button is pressed halfway.                               |  |
| =     | [ Priority]: Tracks focus on the subject when it is detected at the selected AF target point.         |  |
|       | [[::-] Priority]: Always tracks focus on the selected AF target point.                                |  |
|       | Select the AF operation for when the <b>AF-ON</b> button is pressed.                                  |  |
| AF-ON | [ <b>Priority</b> ]: Tracks focus on the subject when it is detected at the selected AF target point. |  |
|       | [:::] Priority]: Always tracks focus on the selected AF target point.                                 |  |

## **Configuring the frame displays for detected eyes (Eye Detection Frame)**

## PASMB 🎛

You can choose whether to display small frames when the camera detects small parts such as the eyes and cockpits.

| $\underbrace{\text{Menu}}_{\bullet \text{ MENU}} \bullet \text{ AF } \Rightarrow 2. \text{ AF } \Rightarrow \text{ Eye Detection Frame}$ |   |
|--|---|
| Off  | Frames are not displayed on small parts such as the eyes or cockpits. |
| On   | Frames are displayed on small parts such as the eyes or cockpits.     |

• Even if **[Eye Detection Frame]** is set to **[Off]**, the camera focuses on specific elements such as the eyes or cockpit when they are detected.

## C-AF Center Target Priority (C-AF Center Priority)



When focusing using group-target AF in **[C-AF]** and **[C-AF]** modes, the camera always assigns priority to the center target in the selected group for a repeated series of focus operations. Only if the camera is unable to focus using the center focus target will it focus using the surrounding targets in the selected focus group. This helps you track subjects that are moving quickly but relatively predictably. Center priority is recommended in most situations.

#### Menu

• MENU → AF → 4. AF → C-AF Center Priority

- Select an AF target mode for which the camera always assigns priority to the center target for a repeated series of focus operations and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.



C-AF Center Priority setting screen

| [ # ]Cross         | If you put a check ( $\checkmark$ ) next to an option, the camera always assigns priority to the center target for a repeated series of focus operations when the AF target mode is used. |
|--------------------|---|
| [ 🏼 ]Mid           |   |
| [III]Large         |   |
| [≡≡]C1 –<br>[≡≡]C4 |   |

⑦ [[ □ ]C1] - [[ □ ]C4] can only be checked (✓) when either the horizontal or vertical [Size] specified in [[ □ ]C1] - [[ □ ]C4] in [ AF Target Mode Settings] (P.109) is 5 or larger.

## C-AF Tracking Sensitivity (CAF Sensitivity / C-AF Sensitivity)

### PASMB

Choose how rapidly the camera responds to changes in the distance to the subject while focusing with **[C-AF]**, **[C-AFM]**, **[C-AF+TR]** or **[C-AF+TR]** selected for **[CAF+TR]** s

#### Menu

- MENU → AF → 4. AF → C C-AF Sensitivity
- MENU → AF → 5. Movie AF → 紹C-AF Sensitivity
- Choose from five levels ([C-AF Sensitivity]) / three levels ([C-AF Sensitivity]) of tracking sensitivity.
- The higher the value, the higher the sensitivity. Choose positive values for subjects that suddenly enter the frame, that are moving rapidly away from the camera, or that change speed or stop suddenly while moving toward or away from the camera.
- The lower the value, the lower the sensitivity. Choose negative values to prevent the camera refocusing when the subject is briefly obscured by other objects or to prevent the camera focusing on the background when you are unable to keep the subject in the AF target.

## C-AF Focus Speed (A C-AF Speed)



Choose how quickly the camera responds to changes to the distance to subject when **[C-AF]** or **[C-AF+TR]** is selected for focus mode. This can be used to adjust the time the camera takes to refocus when, for example, you switch subjects.

## • MENU → AF → 5. Movie AF → \C-AF Speed

- Choose from three focus speed levels.
- Refocusing is quicker at +1 and slower at -1. Choose -1 to refocus slowly when shifting to a new subject.

## Functions for changing camera operation regarding focus

## Lens Focus Range (CAF Limiter)



Choose the range in which the camera will focus using autofocus. This is effective in situations in which an obstacle presents itself between the subject and the camera during the focus operation, causing drastic changes in focus. You can also use it to prevent the camera focusing on foreground objects when shooting through a fence, window, or the like.

### Using the settings saved in [AF Limiter]



- **1.** Highlight **[AF Limiter]** using the  $\Delta \nabla$  buttons and press the **OK** button.
- **2.** Select [On1], [On2], or [On3] using the  $\Delta \nabla$  buttons and press the OK button.



| Off | The camera does not use the saved range of focusing distances. |
|-----|--|
| On1 | The camera uses the range saved in [Distance for On1].         |
| On2 | The camera uses the range saved in [Distance for On2].         |
| On3 | The camera uses the range saved in [Distance for On3].         |

**3.** Return to the **A**F Limiter setting screen.

() AF Limiter is not available in the following cases.

- When the focus limiter is enabled on the lens
- When using focus bracketing or focus stacking
- While in the movie mode or recording a movie
- When  $[\ref{AF}]$  or  $[\ref{AF}]$  is selected for focus mode

## **Configuring** [AF Limiter]

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
  - Press the **OK** button again to return to the **D**AF Limiter setting screen.

| <b>C</b> AF      | Limiter     |
|------------------|-------------|
| AF Limiter       | On1         |
| Distance for On1 | 5.0~999.9m  |
| Distance for On2 | 10.0~999.9m |
| Distance for On3 | 50.0~999.9m |
| Release Priority | On          |
|                  |             |
|                  | OK          |

| Distance for<br>On1 | Set the range of focusing distances to be used when <b>[On1]</b> is selected.<br>Change the number with $\Delta \nabla$ . Use $\triangleleft \triangleright$ to move between digits.<br><b>[000.0]</b> – <b>[999.9m/ft]</b> |  |
|---------------------|---|--|
| Distance for<br>On2 | Set the range of focusing distances to be used when <b>[On2]</b> is selected.<br>Change the number with $\Delta \nabla$ . Use $\triangleleft \triangleright$ to move between digits.<br><b>[000.0]</b> – <b>[999.9m/ft]</b> |  |
| Distance for<br>On3 | Set the range of focusing distances to be used when <b>[On3]</b> is selected.<br>Change the number with $\Delta \nabla$ . Use $\triangleleft \triangleright$ to move between digits.<br><b>[000.0]</b> – <b>[999.9m/ft]</b> |  |
| Release<br>Priority | <ul><li>[Off]: Complies to the [Release Priority] (P.118) setting.</li><li>[On]: The shutter can still be released if the camera is unable to focus when a setting other than [Off] is selected for [AF Limiter].</li></ul> |  |

(2) The figures displayed in [Distance for On1] – [Distance for On3] are intended as guides only.

## C-AF Lens Scanning (CAF Scanner)

the focus operation continues.

### PASMB

Choose whether the camera performs a focus scan. If the camera is unable to focus, it will scan for the focus position by cycling the lens from the minimum focus distance to infinity. You can limit the scanning operation if desired. This option takes effect when **[C-AF]**, **[C-AF+TR]**, **[C-AFM]**, or **[C-AF+TRM]** is selected for **[OAF Mode]** (P.100).

| $\underbrace{Menu}_{\bullet MENU} \bullet AF \twoheadrightarrow 4.  AF \Longrightarrow \mathbf{O} AF  Scanner$ |  |  |
|--|--|--|
| Off  | The camera will not scan if unable to focus. This prevents focus changing to such an extent that you lose sight of your subject when attempting to track small objects and the like. |  |
| On   | When unable to focus, the camera scans only once. The camera will not scan again as long as  |  |

• Regardless of the option selected for [**C**AF Scanner], the camera will scan once if unable to focus when [S-AF] or [S-AFME] is selected for [**C**AF Mode].

## Fine-Tuning Autofocus (CAF Focus Adjustment)



Fine-tune phase-detection autofocus. Focus can be fine-tuned by up to ±20 steps.



- ⑦ Normally there is no need to fine-tune autofocus using this item. Fine-tuning focus may prevent the camera focusing normally.
- ⑦ Focus fine-tuning has no effect in [S-AF] and [S-AFMF] modes.

### Using the saved focus adjustment value

- **1.** Highlight **[AF Focus Adjustment]** using the  $\Delta \nabla$  buttons and press the **OK** button.
- **2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.



| Off | The camera does not use the saved focus adjustment value. |
|-----|---|
| On  | The camera uses the saved focus adjustment value.         |

**3.** Return to the **D**AF Focus Adjustment setting screen.

## **Configuring [AF Focus Adjustment]**

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the  ${\rm OK}$  button to display the setting menu.
  - Press the **OK** button again to return to the **C**AF Focus Adjustment setting screen.

| AF Focus Adjustment |    |
|---------------------|----|
| AF Focus Adjustment | On |
| Fine-tuning Value   | ±0 |
|                     |    |
|                     |    |
|                     |    |
|                     |    |
| ± ≣10               | OK |

| Eine tuning Value | Adjusts focus for all lenses. Focus can be fine-tuned by up to $\pm 20$ steps.                    |
|-------------------|---|
| Fine-tuning value | Adjusts focus for all lenses. Focus can be fine-tuned by up to ±20 steps.<br>[-20] – [±0] – [+20] |

 $\not$  You can zoom in on the display by using the front dial or  $\odot$  button to check the results.

You can take a test picture to check the results by pressing the shutter button before pressing the OK button.

## AF Illuminator Autofocus Assist (AF Illuminator)



The AF illuminator lights to assist the focus operation when lighting is poor.

| $\underbrace{Menu}_{\bullet MENU} \bullet AF \twoheadrightarrow 3. AF \twoheadrightarrow AF Illuminator$ |   |  |
|--|---|--|
| On   | The illuminator lights during autofocus if the subject is poorly lit. |  |
| Off  | The illuminator does not light even if the subject is poorly lit.     |  |

⑦ To use this function in silent mode, it is required that you configure the [Silent [♥] Settings] setting (P.198).

## AF Target Display Mode (AF Area Pointer)

## PASMB 🎛

In autofocus mode, the position of the subject on which the camera has focused is shown by a green focus target. This item controls the display of the focus target.

| $\underbrace{Menu}_{\bullet MENU} \bullet AF \twoheadrightarrow 3. AF \twoheadrightarrow AF Area Pointer$ |   |  |
|---|---|--|
|   |   |  |
| Off   | The focus target is not displayed.  |  |
| On1   | The focus target is displayed only briefly after the camera focuses.  |  |
| On2   | After the camera focuses, cluster AF targeting is enabled and the camera will display AF targets for all areas that are in focus while the shutter button is pressed halfway or the <b>AF-ON</b> button is pressed. |  |

## Functions for setting the focusing position

## Matching AF Target Selection to Camera Orientation ( Orientation Linked [•:•])



The camera can be configured to change the AF target position and AF target mode automatically when it detects that it has been rotated between landscape (wide) or portrait (tall) orientations. Rotating the camera changes the composition and consequently also the position of the subject in the frame. The camera can store the AF target mode and AF target position separately according to camera orientation. When this option is active, [ **1 : : : : Set Home**] (P.138) can be used to store separate home positions for landscape and portrait orientations.

#### Menu

• MENU  $\Rightarrow$  AF  $\Rightarrow$  6. AF Target Settings & Operations  $\Rightarrow$  Operation Linked [ $\cdots$ ]

- Select a function with which you want to save different settings for landscape and portrait orientations, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.



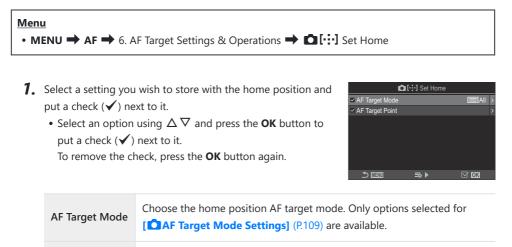
AF Target<br/>ModeWhen you put a check (✓) next to this, the camera saves separate<br/>AF target modes (e.g., IIIIII]AII, I III]Small) for landscape and portraitAF Target<br/>PointWhen you put a check (✓) next to this, the camera saves separate AF<br/>target positions for landscape and portrait orientations.

- **2.** The display returns to the **O**rientation Linked [:::] setting screen.
- **3.** Press the **MENU** button to return to shooting screen.
- **4.** Choose the AF target mode or target position with the camera first in one orientation and then the other.
  - Separate settings are stored for landscape orientation, portrait orientation with the camera rotated to the right, and portrait orientation with the camera rotated to the left.

## Choosing the AF Home Position (



Choose the home position for the **[I:::]Home]** feature. The **[I:::]Home]** feature lets you recall a previously-saved "home position" for AF target at the touch of a button. This item is used to choose the home position.



AF Target Point Choose the home position focus target position.

- **2.** Press  $\triangleright$  to configure options for the selected item.
  - Choose settings for the home position
  - When [COrientation Linked [:::] is active, you will be prompted to select landscape or portrait (camera rotated left/camera rotated right) orientation before pressing the OK button to display options.

## Using the [[·:·]Home] function

The [[:::]Home] function can be used in the following ways.

- In [DButton Function] (P.334), assign [[:::]Home] to a button. The AF target moves to the saved home position when you press the button.
- Select [[:::]HP] for [<sup>©</sup> Center Button] (P.351). The AF target moves to the saved home position when you press the multi selector.

## AF Target Selection ([·:·]Select Screen Settings)

### PASMB

Choose the roles played by the front and rear dials or arrow pad during AF target selection. The controls used can be selected according to how the camera is used or personal taste.

| Μ | e | n | u |
|---|---|---|---|
|   |   |   |   |

• MENU ➡ AF ➡ 6. AF Target Settings & Operations ➡ […] Select Screen Settings

|           | Assign roles to the front and rear dials.                                 |
|-----------|---|
| O dial    | [Off]: None.  |
| 🐨 diai    | [ + Pos]: Position the AF target (P.105).                                 |
|           | [[·:·]Mode]: Choose the AF target mode (e.g., [ﷺ]All, [ ♯]Small) (P.106). |
|           | Assign roles to $\Delta \nabla \triangleleft \triangleright$ .            |
| <         | [Off]: None.  |
| ·↓ Dutton | [ + Pos]: Position the AF target (P.105).                                 |
|           | [[·:·]Mode]: Choose the AF target mode (e.g., [ﷺ]All, [ ♯]Small) (P.106). |

## Enabling AF Target Selection Wrap ([•:•] Loop Settings)

PASMB

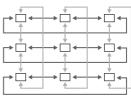
You can choose whether AF target selection "wraps around" the edges of the display. You can also choose whether you have the option of selecting **[]]]AII** (all targets) before AF target selection "wraps around" to the opposite border of the display.

#### Menu

• MENU → AF → 6. AF Target Settings & Operations → […] Loop Settings

[Off]: Wrap disabled. Target selection stays within the borders of the display.

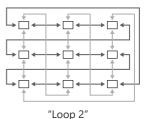
[Loop 1]: If you continue to press the multi selector in the same direction after reaching the border of the display, the target in the same row or column on the opposite border will be selected.





#### [·:·] Loop Selection

[Loop 2]: If you continue to press the multi selector in the same direction after reaching the border of the display, the target in the next row or column on the opposite border will be selected.



-----

**[No]**: Target selection does not pass through **[IIII]** (all targets) before wrapping around.

 [Yes]: If [Loop 1] or [Loop 2] is chosen for [[:::] Loop Selection], target selection

 via []]]All

 will pass through []]]All (all targets) before wrapping around to the opposite border.

⑦ Hiding [III] All (all targets) in [C AF Target Mode Settings] (P.109) fixes [Via [III] at [No].

- () AF targets do not wrap during shooting, for example sequential shooting.
- ② [[:::] Loop Selection] is fixed at [Off] during movie recording and when [云AF] or [云AFME] is selected for focus mode.

## Touch AF Target Selection for Viewfinder Photography (AF Targeting Pad)

## PASMB

Use touch controls in the monitor to select the AF target during viewfinder photography. Glide a finger over the monitor to position the focus target while viewing your subject in the viewfinder.

| Menu<br>• MENU → AF → 6. AF Target Settings & Operations → AF Targeting Pad |   |  |
|---|---|--|
| Off   | Monitor touch controls cannot be used for AF target selection during viewfinder photography.  |  |
| On  | Monitor touch controls can be used for AF target selection during viewfinder photography.<br>Gently tap the monitor twice to enable or disable touch AF target selection. When the target<br>reaches the edge of the display and you lift and glide your finger again, the AF target<br>moves to the other side or becomes []]]All (all target) mode depending on the [[-::-] Loop<br>Selection] (P.141) setting. |  |

& When [On] is selected, touch controls can also be used to position the zoom frame (P.111).

## Other functions that are useful when focusing

### **Manual Focus Assist (MF Assist)**

## PASMB 🎛

This is a focus assist function for MF. When the focus ring is rotated, the edge of the subject is enhanced or a portion of the screen display is magnified.

#### Menu

• MENU ➡ AF ➡ 7. MF ➡ MF Assist

| Magnify            | <ul> <li>Magnifies a portion of the screen.</li> <li>[Off]: Normal display.</li> <li>[On]: Magnifies a portion of the screen. The portion to be magnified can be set in advance using AF target. I "Choosing a Focus Target (AF Target Point)" (P.105)</li> </ul>  |
|--------------------|--|
| Peaking            | <ul> <li>Displays clearly defined outlines with edge enhancement.</li> <li>[Off]: Normal display.</li> <li>[On]: Displays clearly defined outlines with edge enhancement. You can select the enhancement color and intensity. I "Focus Peaking Options (Peaking Settings)" (P.146)</li> </ul>  |
| Focus<br>Indicator | <ul> <li>Rotating the focus ring during manual focus displays an indicator showing the direction and approximate amount of rotation required to bring the subject into focus.</li> <li>[Off]: Normal display.</li> <li>[On]: Rotating the focus ring during manual focus displays an indicator showing the direction and approximate amount of rotation required to bring the subject into focus.</li> </ul> |

When Peaking is in use, the edges of small subjects tend to be enhanced more strongly. This is no guarantee of accurate focusing.

- () Focus zoom is not available in the following instances:
  - During movie recording / when **[C-AFME]** or **[C-AF+TRME]** is selected for focus mode / during a multiple exposure / when **[PDigital Tele-converter]** is set to **[On]** in movie recording mode
- (2) When using third-party lenses with focus clutch mechanism, the direction of focus and the display of Focus Indicator may be reversed. If this happens, change the setting of [Focus Ring] (P.150).
- ⑦ Focus Indicator cannot be displayed when using a Four-Thirds system lens.
- So Rotate the front or rear dial to zoom in or out during focus zoom.
- & Press the INFO button to change the color and intensity when peaking is displayed.

### **Focus Peaking Options (Peaking Settings)**

### PASMB 🎛

Highlight objects using color outlines. This makes objects that are in focus easier to see during manual focus and the like.

| Button         • A button to which [Peaking] has been assigned ⇒ INFO button         Menu         • MENU ⇒ AF ⇒ 7. MF ⇒ Peaking Settings |   |
|--|---|
|  |   |
| Peaking Color  | Choose the focus peaking color.<br>[White] / [Black] / [Red] / [Yellow]   |
| Highlight Intensity  | Choose the focus peaking level.<br>[Low] / [Normal] / [High]  |
| Image Brightness Adj.  | Adjust background brightness to make focus peaking easier to see.<br>[Off]: Normal display.<br>[On]: Adjusts background brightness. |

When [On] is selected for [Image Brightness Adj.], the live view display may be brighter or darker than the final photograph.

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### **Using Focus Peaking**

The following options are available for using focus peaking.

- Assigning [Peaking] to a control using [ Button Function] or [ Button Function]: Focus peaking can be assigned to a control by selecting [Peaking] for [ Button Function] (P.334) or [ Button Function] (P.334). Pressing the button enables focus peaking. [Peaking] can also be selected for [Multi Function] (P.344).
- Using [Peaking] for [MF Assist]: If [Peaking] is selected for [MF Assist], focus peaking will activate automatically when the lens focus ring is rotated.

S-Press the INFO button to view peaking options.

# Choosing a Focus Distance for Preset MF (Preset MF distance)

### PASMB

Set the focusing position for Preset MF. Specify the number and unit (m or ft).

## • MENU ➡ AF ➡ 7. MF ➡ Preset MF distance

() If the lens is equipped with a focus limiter, disable it before proceeding.

() The figures displayed are intended as guides only.

### **Disabling the MF Clutch (MF Clutch)**

### PASMB 🎛

Disable the manual focus clutch, which is found on some lenses. This can prevent autofocus being disabled by the focus ring being rotated accidentally.

| • MENU $\rightarrow$ AF $\rightarrow$ 7. MF $\rightarrow$ MF Clutch |  |
|---|--|
|   |  |

| Operative   | The camera responds to the position of the lens focus ring.  |
|-------------|--|
| Inoperative | The camera focuses according to the option selected for [CAF Mode] / [AF Mode], regardless of the position of the lens focus ring. |

② Manual focus using the lens focus ring is not available when [Inoperative] is selected for [MF Clutch], even if the lens focus ring is in the manual focus position.

& For details about lenses equipped with MF clutch, see "MF Clutch Lenses" (P.475).

### Lens Focus Direction (Focus Ring)

### 

Choose the direction in which the focus ring is rotated to adjust focus.

| Menu<br>• MENU → AF → 7. MF → Focus Ring |  |
|--|--|
|  |  |
| $\circ$                                  |  |

| ¢ | Rotate the ring counterclockwise to increase the focus distance. |
|---|--|
| Ç | Rotate the ring clockwise to increase the focus distance.        |

# Resetting the Lens Position at Shutdown (Reset Lens)

### PASMB 🎛

You have the option of not restoring the lens to the reset focus position when the camera is turned off. This lets you turn the camera off without changing the focus position.

| $\underbrace{Menu}_{\bullet MENU} \bullet AF \twoheadrightarrow 7. MF \twoheadrightarrow Reset Lens$ |   |  |
|--|---|--|
|  |   |  |
| Off  | The lens focus position is not reset when the camera is turned off. Power zoom lenses also return to the zoom position they were in before the camera was turned off. |  |
|  |   |  |

On The lens focus position is reset when the camera is turned off.

## **Metering and Exposure**

## Controlling exposure (Exposure Compensation)



The exposure selected automatically by the camera can be altered to suit your artistic intent. Choose positive values to make pictures brighter, negative values to make them darker.

#### **Button**

- In shooting modes other than M: 🗹 (Exposure compensation) button 🔿 🗸 🕨 🕿 🐸
- In **M** shooting mode: Rotate the front or rear dial while pressing the 🔀 (Exposure compensation) button.

#### Super control panel

• OK ➡ Exposure Comp.



1)Negative (–)

2 No compensation (0)

③Positive (+)

- During photo shooting, exposure compensation can be adjusted by up to ±5.0 EV. The viewfinder and live view show the effects of values not exceeding ±3.0 EV. The exposure bar flashes when the value exceeds ±3.0 EV.
- During movie recording, exposure compensation can be adjusted by ±3.0 EV.
- The front and rear dials or touch controls can be used to adjust exposure during movie recording.



Exposure bar
 Exposure compensation value

To preview the effects of exposure compensation in live view, select [Standard] for [OILV Mode] (P.362) and [Off] for [OINGHT Vision] (P.363).

### **Adjusting Exposure Compensation**

### Modes P, A, and S

In movie mode, exposure compensation can be adjusted when **[P]**, **[A]**, or **[S]** is selected for **[PMode]** (movie exposure mode). **I** "Choosing an Exposure Mode (Provide Exposure Modes)" (P.79)

- 1. Rotate the front dial to adjust exposure compensation.
  - You can also choose a value by pressing the 🗵 button and then using the  $\triangleleft \triangleright$  buttons.
- 2. Release the shutter.

#### Mode M

In still photography mode, select **[P/A/S/M]** for **[OISO-Auto]** (P.171) and **[Auto]** for **[OISO]** (P.166).

In movie mode, exposure compensation can be adjusted when **[M]** is selected for **[\Omega Mode]** (movie exposure mode) (P.79). You must first however select **[On]** for **[\Omega\_MISO-Auto]** (P.171) and **[Auto]** for **[\Omega ISO]** (P.166).

1. Press the 🗷 button and then rotate the front dial or rear dial to adjust exposure compensation.

### **Resetting Exposure Compensation**

To reset exposure compensation, press and hold the **OK** button.

### EV Steps for Exposure Control (EV Step)

### PASMB 🎛

Choose the size of the increments used when adjusting shutter speed, aperture, exposure compensation, and other exposure-related settings. Choose from 1/3, 1/2, and 1 EV.

| Menu   |  |
|--|--|
| • MENU $\Rightarrow$ $\square_1 \Rightarrow$ 4. Exposure $\Rightarrow$ EV Step |  |

### Fine-Tuning Exposure (Exposure Shift)

### PASMB 🎛

Fine-tune exposure. Use this option if you want the results of auto exposure to be consistently brighter or darker.

- ⑦ Fine-tuning is not normally required. Use only as necessary. In normal circumstances, exposure can be adjusted using exposure compensation (P.152).
- ⑦ Fine-tuning exposure reduces the amount of exposure compensation available in the direction (+ or -) exposure was fine-tuned.

| $\underbrace{\text{Menu}}{\bullet \text{ MENU}} \bullet 4. \text{ Exposure } \text{ Exposure Shift}$ |  |
|--|--|
| 🛃 (digital ESP metering)   | Set the fine-tuning amount for when the metering method is 🛃.<br>[-1] – [±0] – [+1]  |
| <ul><li>(center-weighted averaging)</li></ul>  | Set the fine-tuning amount for when the metering method is ().<br>[-1] – [±0] – [+1] |
| • (spot metering)  | Set the fine-tuning amount for when the metering method is •.<br>[-1] – [±0] – [+1]  |

### Reducing Flicker Under LED Lighting (CFlicker Scan / Pricker Scan)



Banding may occur in photographs taken under LED lighting. Use [D Flicker Scan] / [P Flicker Scan] to optimize shutter speed while viewing banding in the display.

I is the can be used in silent mode and with Pro Capture shooting while using S or M shooting mode.

oxtimes: This item can be used when [oxtimes **Mode**] (movie exposure mode) is **[S]** or **[M]**.

(2) The range of available shutter speeds is reduced.



• When set to [On], "FlickerScan" will be displayed.



⑦ Focus peaking and the LV super control panel are not available in the flicker scan display. To view these items, first press the INFO button to exit the flicker scan display.

### **Choosing the Shutter Speed**

- Choose a shutter speed using the front or rear dial or the  $\Delta \nabla$  buttons. If desired, the shutter speed can be selected by keeping  $\Delta \nabla$  pressed.
- You can also rotate the front dial to adjust shutter speed in the exposure increments selected for **[EV Step]** (P.155).
- Continue adjusting shutter speed until banding is no longer visible in the display.
- Magnifying the display (P.111) makes it easier to check for banding.
- Press the **INFO** button; the display will change and the "FlickerScan" will no longer be displayed. You can adjust aperture and exposure compensation. Do so using the front or rear dial or the arrow pad.
- Press the INFO button repeatedly to return to the flicker scan display.

# Choosing how the camera measures brightness (Metering)

PASMB

You can choose how the camera meters subject brightness.



|     | Digital ESP<br>metering                     | Suited to most scenes, including back-lit subjects. The camera meters 324 areas of the frame and calculates optimal exposure taking into consideration the nature of the scene.  |
|-----|---|--|
| ۲   | Center<br>weighted<br>averaging<br>metering | Suited to compositions that place the main<br>subject at the center of the frame. The<br>camera sets exposure based on the average<br>light level for the entire frame while assigning<br>the greatest weight to the area in the center. |
| •   | Spot metering                               | Use a specific area of the subject meter<br>exposure. The camera meters a small portion<br>(approximately 2%) of the frame.  |
| ∙Hi | Spot metering<br>(highlight)                | Increases spot metering exposure. Ensures bright subjects appear bright.   |
| ۰Sh | Spot metering<br>(shadow)                   | Lowers spot metering exposure. Ensures dark subjects appear dark.  |

The spot metering position can be set at the selected AF target. The spot metering the Focus Target ([:::]Spot Metering)" (P.165)

### Locking the exposure (AE Lock)

### PASMB 🎛

You can lock the exposure by pressing the **AEL** button. Use this when you want to adjust the focus and exposure separately or when you want to shoot several images at the same exposure.

#### **Button**

- AEL button
- (If the AEL button has been assigned a different role, you will need to assign [AEL] (P.336) to a control using [Button Function] (P.334).
- The camera can be configured to automatically release the lock after shooting. Reset] (P.162)
- If you press the AEL button once, the exposure is locked and "AEL" is displayed.
- Press the button once again to release the AE Lock.
- The lock will be released if you operate the mode dial, **MENU** button, or **OK** button.

# AE Lock Exposure Metering (Metering during



Choose the metering method used to meter exposure when exposure is locked using the AEL button.



• For more information on AE lock, see "Locking the exposure (AE Lock)" (P.160).

| Auto  | Exposure is metered using the method selected for [Metering] (P.159).   |
|---|---|
| (center-weighted averaging)                   | The camera sets exposure based on the average light level for the<br>entire frame while assigning the greatest weight to the area in the<br>center. |
| • (spot metering)                             | The camera meters a small portion (approximately 2%) of the frame.  |
| •Hi (spot highlight<br>metering)              | Brightens the spot metering area, brightening highlights.   |
| <ul> <li>Sh (spot shadow metering)</li> </ul> | Darkens the spot metering area, darkening highlights.   |

# Releasing AE Lock after shooting ( All Auto Reset)



Configure the camera so that it automatically releases the lock after shooting when exposure is locked using the **AEL** button.

| $\underbrace{\text{Menu}}{\bullet \text{ MENU}} \bullet \mathfrak{O}_1 \to 5. \text{ Metering} \to  \text{Auto Reset}$ |  |
|--|--|
| No   | Exposure remains locked after shooting. Press the <b>AEL</b> button to release the lock. |
| Yes  | Exposure lock is released after shooting.  |

When multiple photos are taken using such functions like sequential shooting, custom self-timer or interval shooting, exposure lock will be released after a series of photos have been taken.

# Locking exposure when the shutter button is pressed halfway (AEL by half-pressing **—**)

### PASMB

Configure the camera so that it locks exposure when the shutter button is pressed halfway.

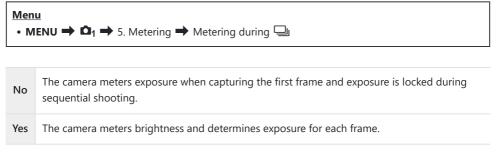
### Menu • MENU → $D_1$ → 5. Metering → AEL by half-pressing =

| No        | Exposure is not locked when the shutter button is pressed halfway. Exposure is determined based on the shooting conditions when the shutter button is pressed fully. |
|-----------|--|
| Yes       | Exposure is locked when the shutter button is pressed halfway.   |
| S-AF Only | Exposure is locked when the shutter button is pressed halfway only when the AF mode is <b>[S-AF]</b> , <b>[S-AFIIE]</b> , <b>[ZAF]</b> or <b>[ZAFIIE]</b> .          |

- ⑦ If exposure is locked by pressing the AEL button, it remains locked when you press the shutter button halfway regardless of this setting.
- If you configure the camera so that it does not lock exposure when the shutter button is pressed halfway, you can choose whether the camera meters brightness for each frame during sequential shooting.
   Setting metering options for sequential shooting (Metering during )" (P.164)

# Setting metering options for sequential shooting (Metering during 🖵)

### PASMB



(P.163), exposure remains locked during sequential shooting even when [Metering during ] is set to [Yes].

When [♥□SH1] or [ProCap SH1] is set, [Metering during □] is fixed at [No].

### Metering the Focus Target ([·:·]Spot Metering)



Choose whether the camera meters the current AF target when [•] is selected for [Metering]. Settings can be adjusted separately for spot, spot highlight, and spot shadow metering.



- Select a metering method with which you want the camera to meter the current AF target, and put a check (✓) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.

| Spot         | Applied when [Metering] is [•] (spot metering).             |
|--------------|---|
| Spot Hilight | Applied when [Metering] is [•Hi] (spot highlight metering). |
| Spot Shadow  | Applied when [Metering] is [••Sh] (spot shadow metering).   |

- (P.111).
- (I) Not applied when a setting other than [Off] is selected for [Subject Detection].
- ⑦ Not applied when [C-AF+TR] or [C-AF+TRMF] is selected for AF Mode.

### Changing ISO sensitivity (ISO)

### PASMB

Select a value according to subject brightness. Higher values let you photograph darker scenes but also increase image "noise" (mottling). Select **[Auto]** to let the camera adjust sensitivity according to lighting conditions.

| Button<br>• ISO Button ➡ ⊲▷ ॐ                             |  |
|---|--|
| <ul> <li>Super control panel</li> <li>OK ➡ ISO</li> </ul> |  |

ISO sensitivity is fixed at [Auto] during movie recording when [P], [A], or [S] is selected for [AMode] (movie exposure mode). Setting [AMode] to [M] allows other options to be selected.
 "Assigning Roles to the Front and Rear Dials (Dial Function / PDial Function)" (P.347)

|  | Sensitivity is adjusted automatically according to shooting conditions.<br>During still photography, you can choose the maximum and standard values<br>for ISO sensitivity (P.169).<br>You can change the shutter speed at which ISO sensitivity starts to rise in <b>P</b><br>and <b>A</b> modes (P.170).   |
|--|--|
| Auto   | <ul> <li>During movie recording, ISO sensitivity will be set to values of from ISO 200 to 12800. When [M] is selected for [A Mode] (movie exposure mode), auto ISO sensitivity control can be enabled by selecting [On] for [A MISO-Auto]. You can also choose maximum and standard values for ISO sensitivity.</li> <li>*Setting the range of ISO sensitivity values selected in [Auto] mode (ISO-A Upper/Default / A MISO-A Upper/Default)" (P.169)</li> </ul> |
| L80, L100,<br>200–102400<br>(still<br>photography) | Choose a value for ISO sensitivity. ISO 200 offers a good balance between<br>noise and dynamic range. Choose <b>[L100]</b> or <b>[L80]</b> for larger apertures (higher<br>f-numbers) or slower shutter speeds. <b>[L80]</b> is equivalent to ISO 80, <b>[L100]</b> to<br>ISO 100.<br>( <b>[L80]</b> and <b>[L100]</b> are available at all exposure step values.<br>( <b>[L80]</b> and <b>[L100]</b> reduce dynamic range.                                      |

#### 200–12800 (movie recording)

Choose a value for ISO sensitivity. ISO 200 offers a good balance between noise and dynamic range.

- Combining [CISO] values over ISO 16000 with settings that use an electronic shutter (for example, silent mode or focus bracketing) sets the flash sync speed to 1/50 s.
- ⑦ Regardless of the value selected for ISO sensitivity, the flash sync speed for photos taken using ISO bracketing in silent mode is 1/50 s.
- When [M] is selected for [A Mode] (movie exposure mode), ISO sensitivity can be adjusted during recording using touch controls (P.82) or by rotating the front or rear dial.
- ⑦ If [Dramatic Tone] or [Watercolor] is chosen for picture mode during still photography, sensitivity will not exceed ISO 1600 when [Auto] is selected.
- ⑦ The following restrictions apply when [M] is selected for [\$ Mode] (movie exposure mode) depending on the picture mode:
  - [\*i 🛱 2 OM-Log400], [\*i 🛱 3 HLG]:
    - If the frame rate selected for [𝔐 ◀••] is 23.98p, 24.00p, 25.00p, or 29.97p, [Auto] is restricted to sensitivities of ISO 400–6400.
    - If the frame rate selected for [♀ ◀□] is 50.00p or 59.94p, [Auto] is restricted to sensitivities of ISO 400–12800.
    - The lowest value that can be selected manually is ISO 400.
  - [Dramatic Tone] / [Watercolor]:
    - [Auto] is restricted to sensitivities of ISO 200-3200.
  - Art filters other than [Dramatic Tone] / [Watercolor]:
    - If the frame rate selected for [𝔐 ◀••] is 23.98p, 24.00p, 25.00p, or 29.97p, [Auto] is restricted to sensitivities of ISO 200–3200.
    - If the frame rate selected for [♀ ◀□] is 50.00p or 59.94p, [Auto] is restricted to sensitivities of ISO 200–6400.
  - Other picture modes:
    - If the frame rate selected for [𝔐 ◀••] is 23.98p, 24.00p, 25.00p, or 29.97p, [Auto] is restricted to sensitivities of ISO 200–6400.

### EV Steps for ISO Sensitivity Control (ISO Step)

### PASMB

Choose the size of the increments used when adjusting ISO sensitivity. Choose from 1/3 and 1 EV.

• MENU →  $\square_1$  → 3. ISO/Noise Reduction → ISO Step

## Setting the range of ISO sensitivity values selected in [Auto] mode (CISO-A Upper/ Default / MISO-A Upper/Default)



Choose the range of ISO sensitivity values selected by the camera when **[Auto]** is selected for **[\squareISO]** or **[\squareISO]**.

| Menu  |  |
|---|--|
| <ul> <li>MENU → □<sub>1</sub> → 3. ISO/Noise Reduction → □ ISO-A Upper/Default</li> </ul>                                   |  |
| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ $\mathfrak{A}_{M}$ ISO-A Upper/Default |  |
|   |  |

| Upper Limit | Choose the maximum sensitivity selected automatically by the camera. Set the value using $\Delta  abla$ or the front/rear dials. |
|-------------|--|
| Default     | Choose the default sensitivity. Set the value using $\Delta  abla$ or the front/rear dials.                                      |

• Switch between [Upper Limit] and [Default] using  $\triangleleft \triangleright$ .

The upper limit and the default settings differ between [D ISO] and [P ISO]. If the optimal exposure cannot be achieved under the aperture and shutter speed conditions, a lower sensitivity is applied.

### Setting the shutter speed at which the camera automatically raises ISO sensitivity (CISO-A Lowest S/S)



Choose the shutter speed at which the camera starts raising the ISO sensitivity when **[Auto]** is selected for **[D ISO**].

| Menu   |  |
|--|--|
| • MENU $\Rightarrow$ $\square_1 \Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ $\square$ ISO-A Lowest S/S |  |

| Auto         | The camera sets it automatically.   |
|--------------|---|
| 1/8000 – 60" | The camera starts raising the ISO sensitivity at the specified shutter speed.<br>Press the <b>OK</b> button and set the shutter speed using $\Delta \nabla$ . |

## Choosing the modes in which [Auto] can be used for ISO sensitivity (СПSO-Auto / ӨмISO-Auto)



Choose the modes in which [Auto] can be used for ISO sensitivity.

| Menu  |                    |
|---|--------------------|
| • MENU $\Rightarrow$ $\square_1 \Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ [ | ISO-Auto           |
| • MENU → 🍄 → 3. ISO/Noise Reduction → 🕯   | <b>≌</b> mISO-Auto |

#### ISO-Auto

| P/A/S   | [Auto] can be used for ISO sensitivity when the shooting mode is <b>P</b> , <b>A</b> , or <b>S</b> .            |
|---------|---|
| P/A/S/M | [Auto] can be used for ISO sensitivity when the shooting mode is <b>P</b> , <b>A</b> , <b>S</b> , or <b>M</b> . |

#### MISO-Auto

| Off | [Auto] cannot be used for ISO sensitivity when [ Mode] (P.79) is [M]. |
|-----|---|
| On  | [Auto] can be used for ISO sensitivity when [29 Mode] (P.79) is [M].  |

# High ISO Noise Reduction Options ( $\square$ Noise Filter / $\square$ Noise Filter)

### PASMB

Reduce image artifacts ("noise") in footage filmed at high ISO sensitivities. This can help reduce "graininess" in footage filmed under low light. You can choose the amount of noise reduction performed.

| Menu   |
|--|
| • MENU $\Rightarrow$ $\square_1 \Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ $\square$ Noise Filter         |
| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ $\mathfrak{A}$ Noise Filter |

| Off                   | Noise reduction disabled.                       |
|-----------------------|---|
| Low / Standard / High | Choose the amount of noise reduction performed. |

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# Image Processing Options (Low ISO Processing)



Choose the type of processing applied to photographs taken at low ISO sensitivities using sequential shooting.

| Menu  |  |
|---|--|
| • MENU $\Rightarrow$ $\mathbf{\hat{D}}_1$ $\Rightarrow$ 3. ISO/Noise Reduction $\Rightarrow$ Low ISO Processing |  |

| Drive Priority  | Image processing is adapted so as not to curtail the number of pictures that can be taken in a single burst. |
|-----------------|--|
| Detail Priority | Image processing prioritizes image quality.  |

Photographs taken in single shooting are processed in [Detail Priority] mode even if [Drive Priority] is selected.

# Long Exposure Noise Reduction Options (Noise Reduction)



Choose whether to process photos taken at slow shutter speeds to reduce image artifacts ("noise"). At slow shutter speeds, noise is caused by the heat generated from the camera itself. After each photo is taken, the camera captures a second image for noise reduction, causing a delay equal to the selected shutter speed before the next photo can be taken.

<u>Menu</u>

• **MENU**  $\Rightarrow$   $\mathbf{D}_1$   $\Rightarrow$  3. ISO/Noise Reduction  $\Rightarrow$  Noise Reduction

| Off  | Noise reduction not performed.   |
|------|--|
| On   | Noise reduction is performed at all shutter speeds.  |
| Auto | Noise reduction is performed automatically when the camera's internal temperature is elevated. |

- (During noise reduction, the camera displays the time remaining until the process is complete.
- (During sequential shooting, [Off] is selected automatically and noise reduction is not performed.
- ⑦ Noise reduction may not produce the desired effects depending on the subject and shooting conditions.

## Flash photography

### Using a flash (Flash photography)

When using a flash unit designed for use with the camera, you can choose from various shooting modes to meet your needs.

### Flash units designed for use with the camera

Choose a flash unit to suit your needs, taking into consideration such factors as the output required and whether the unit supports macro photography. Flash units designed to communicate with the camera support a variety of flash modes, including TTL auto and super FP. Flash units can be mounted on the camera hot shoe or connected using a cable (available separately) and flash bracket. The camera also supports the following wireless flash control systems:

## Radio-Controlled Flash Photography: CMD, **\$**CMD, RCV, and X-RCV Modes

The camera controls one or more remote flash units by means of radio signals. The range of locations in which flash units can be placed increases. Flash units can control other compatible units or be fitted with radio commander/receivers to allow the use of units that do not otherwise support radio flash control.

#### Wireless Remote-Control Flash Photography: RC Mode

The camera controls one or more remote flash units by means of optical signals. The flash mode can be selected using camera controls (P.185).

### **Features Available with Compatible Flash Units**

| Flash unit | Flash control mode   | GN (Guide Number, ISO<br>100)                                      | Supported<br>wireless systems         |
|------------|--|--|---------------------------------------|
| FL-700WR   | TTL-AUTO, MANUAL,<br>FP TTL AUTO, FP MANUAL,<br>MULTI, RC, SL MANUAL                   | GN 42 (75/150 mm <sup>1</sup> )<br>GN 21 (12/24 mm <sup>1</sup> )  | CMD, <b>\$</b> CMD, RCV,<br>X-RCV, RC |
| FL-900R    | TTL-AUTO, AUTO, MANUAL,<br>FP TTL AUTO, FP MANUAL,<br>MULTI, RC, SL AUTO, SL<br>MANUAL | GN 58 (100/200 mm <sup>1</sup> )<br>GN 27 (12/24 mm <sup>1</sup> ) | RC                                    |
| STF-8      | TTL-AUTO, MANUAL, RC <sup>2</sup>  | GN8.5  | RC <sup>2</sup>                       |
| FL-LM3     | Varies with camera settings.   | GN 9.1 (12/24 mm <sup>1</sup> )                                    | RC <sup>2</sup>                       |

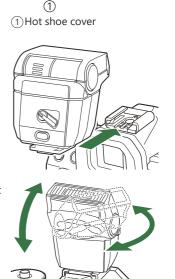
- 1 Maximum lens focal length at which the unit can provide flash coverage (figures following slashes are 35 mm format equivalent focal lengths).
- 2 Functions as commander (transmitter) only.

### **Attaching Compatible Flash Units**

The methods used to attach and operate external flash units vary with the unit. See the documentation provided with the unit for details. The instructions here apply to the FL-LM3.

⑦ Confirm that both the camera and flash unit are off. Attaching or removing a flash unit while either the camera or flash unit is on could damage the equipment.

- **1.** Remove the hot shoe cover and attach the flash.
  - Slide the flash in until the foot clicks into place at the back of the shoe.



- **2.** Position the flash head for bounce-flash photography or direct lighting.
  - The flash head can be rotated up and left or right.

② Note that flash output may be insufficient for correct exposure when bounce flash lighting is used.

3. Rotate the flash ON/OFF lever to the ON position.



 $\textcircled{1}{\textbf{ON/OFF}} \text{ lever}$ 

• Rotate the lever to the **OFF** position when the flash is not in use.

**1.** Keeping the **UNLOCK** button pressed, slide the flash unit from the hot shoe.



### Choosing a Flash Mode (Flash Mode)

### PASMB



### **Flash Modes**

Flash modes that are displayed vary depending on the configuration of [Flash Mode Settings] (P.183).

| 4             | Fill In   | Enable the flash.  (2) Shutter speed can be set to values between that selected for [\$ Slow Limit] (P.187) and [\$ X-Sync.] (P.186).   |
|---------------|-----------|---|
| ۲             | Flash Off | Disable the flash.<br>⑦ The flash will not fire even if the unit is on.   |
| <b>4</b> Slow | Slow      | <ul> <li>Slow shutter speeds are used to capture both the main subject and the background.</li> <li>Shutter speed is set according to the exposure value metered by the camera and is not restricted by the option selected for [\$ Slow Limit].</li> </ul> |
| 🕻 Manual      | Manual    | The flash fires at the selected level.<br>Appears only when the FL-LM3 is attached.   |

### **Flash Modes and Setting Combinations**

The flash modes and required setting combinations for each are as follows.

#### Flash Mode: Fill In

This setting is available only in **P/A/S/M/B** modes.

| [Reduce Red-<br>eye] <sup>1</sup> | [Synchro Settings] <sup>1</sup> | Super control panel display | Reduce Red-<br>eye | Flash timing                   |
|-----------------------------------|---------------------------------|-----------------------------|--------------------|--------------------------------|
| [No]                              | [First Curtain]                 | \$                          | No                 | Front-curtain sync             |
|                                   | [Second Curtain]                | <b>\$</b> 2                 | NO                 | Rear-curtain sync <sup>2</sup> |
| [Yes]                             | [First Curtain]                 | <b>4</b> ®<br>♥             | Yes                | Front-curtain sync             |
|                                   | [Second Curtain]                | <b>4</b> ●2                 |                    | Rear-curtain sync <sup>2</sup> |

- 1 The red-eye reduction flash is set in [Reduce Red-eye] and the flash timing is set in [Synchro Settings]. I [Flash Mode Settings] (P.183)
- <sup>2</sup> Even if [Second Curtain] is selected for [Synchro Settings], if [Live Comp] (P.71) is set in B mode, the flash will fire in first-curtain sync.
- In P/A/S/M modes, the range of available shutter speeds is 60 s to 1/250 s. The range of available shutter speeds can be further restricted using the options in the menu. I X-Sync.] (P.186), Slow Limit] (P.187)

#### Flash Mode: SLOW

This setting is available only in **P/A** modes.

| [Reduce Red-<br>eye] <sup>1</sup> | [Synchro Settings] <sup>1</sup> | Super control panel display | Reduce Red-<br>eye | Flash timing       |
|-----------------------------------|---------------------------------|-----------------------------|--------------------|--------------------|
| [No]                              | [First Curtain]                 | <b>\$</b> Slow              | No                 | Front-curtain sync |
| [140]                             | [Second Curtain]                | \$Slow2                     | NO                 | Rear-curtain sync  |
| [Yes]                             | [First Curtain]                 | <b>≸</b> ● Slow             | Yes                | Front-curtain sync |
| [les]                             | [Second Curtain]                | Slow2                       | 165                | Rear-curtain sync  |

1 The red-eye reduction flash is set in [Reduce Red-eye] and the flash timing is set in [Synchro Settings]. I [Flash Mode Settings] (P.183)

The range of available shutter speeds is 60 s to 1/250 s. The range of available shutter speeds can be further restricted using the options in the menu. [3] [4 X-Sync.] (P.186), [4 Slow Limit] (P.187)

#### Flash Mode: Manual

This option appears only when the FL-LM3 is attached. This setting is available only in P/A/S/M/B modes.

| [Reduce Red-eye]        | [Synchro Settings]      | Super control panel display | Reduce Red-<br>eye | Flash timing          |
|-------------------------|-------------------------|-----------------------------|--------------------|-----------------------|
| (regardless of setting) | (regardless of setting) | 🕻 Manual                    | No                 | Front-curtain<br>sync |

In P/A/S/M modes, the range of available shutter speeds is 60 s to 1/250 s. The range of available shutter speeds can be further restricted using the options in the menu. [\$ X-Sync.] (P.186), [\$ Slow Limit] (P.187)

- ⑦ In red-eye reduction mode, the shutter will be released approximately one second after the initial red-eye reduction pre-flash. Do not move the camera until shooting is complete. Also note that red-eye reduction may not produce the desired results in some conditions.
- ① The fastest shutter speed available when the flash fires is 1/250 s. Bright backgrounds in pictures taken with the flash may be overexposed.
- The flash sync speed for silent modes (P.198), High Res Shot (P.239), and focus bracketing (P.278) is 1/100 s. Furthermore, combining [DISO] values over ISO 16000 with settings that use an electronic shutter (for example, silent mode or focus bracket shooting) sets the flash sync speed to 1/50 s. The flash sync speed is also set to 1/50 s during ISO bracketing (P.275).
- ② Even the minimum available flash output may be too bright at short range. To prevent overexposure in pictures taken at short range, select mode A or M and choose a smaller aperture (higher f-number) or choose a lower setting for [DISO].

# Configuring flash modes (Flash Mode Settings)



Choose which modes are displayed on the flash mode selection screen.

| Menu<br>• MENU → $\mathbf{D}_1$ → 6. Flash → Flash Mode Settings |  |  |
|--|--|--|
| Reduce Red-<br>eye   | Reduce "red-eye" in portrait photos.<br>[No]: The camera does not display Reduce Red-eye modes.<br>[Yes]: The camera displays Reduce Red-eye modes.  |  |
| Synchro<br>Settings  | Choose when the flash fires. [First Curtain]: The flash fires when the shutter is fully open. [Second Curtain]: The flash fires immediately before the shutter closes. Moving objects appear to leave trails of light behind them. |  |

#### Adjusting flash output (Flash Exposure Comp.)



Flash output can be adjusted if you find that your subject is over- or under-exposed even though the exposure in the rest of the frame is appropriate.

() Flash compensation is available in modes other than manual.

#### Super control panel

- OK ➡ Flash Exposure Comp.
- Changes to flash intensity made with the external flash unit are added to those made with the camera.

#### Wireless Remote Flash Control ( **4** RC Mode)



Adjust settings for wireless remote flash control. Remote control is available with optional flash units that support wireless remote control ("wireless RC flash"). For information on using wireless remote flash control, see "Wireless remote control flash photography" (P.482).

| • MENU → $\square_1$ → 6. Flash → $\ddagger$ RC Mode |  |  |
|--|--|--|
| Off  | Wireless remote flash control disabled.  |  |
| On   | Wireless remote flash control enabled. The camera displays settings for wireless remote flash control. |  |

• Selecting **[On]** and pressing **OK** in the shooting standby screen displays the RC mode super control panel in the camera monitor. To view the regular super control panel, press the **INFO** button.

#### Choosing a Flash Sync Speed ( **\$** X-Sync.)



Choose the fastest shutter speed available for flash photography.

Choose the fastest shutter speed available for flash photography, irrespective of subject brightness.

<u>Menu</u>

• MENU  $\rightarrow$   $\square_1 \rightarrow$  6. Flash  $\rightarrow$   $\ddagger$  X-Sync.

## Choosing the Minimum Shutter Speed (**\$** Slow Limit)



Choose the slowest shutter speed available for flash photography in **P/A** modes.

This item is used to select the slowest setting available to the camera when selecting the shutter speed automatically during flash photography, regardless of how dark the subject may be.

• Available values: 60 s to value selected for [X-Sync.]

(1) It does not take effect in slow-sync (\$ Slow, \$ Slow2, \$ Slow2, \$ Slow2) modes.

Menu
 MENU → □1 → 6. Flash → \$ Slow Limit

#### Flash and Exposure Compensation (22 + 2)

#### PASMB

Choose whether exposure compensation is added to the value for flash compensation. For more information on flash compensation, see "Adjusting flash output (Flash Exposure Comp.)" (P.184).

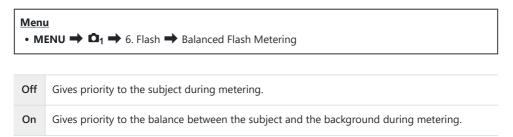
| Menu<br>• MENU → $\square_1$ → 6. Flash → $\boxdot$ + $\boxdot$ |  |
|---|--|
|   |  |
| Off   | Flash and exposure compensation are set independently. |

| On | The value for exposure compensation is added to the value for flash compensation. |
|----|---|

# Setting the exposure balance for TTL metering (Balanced Flash Metering)



Set the exposure balance to be used when using an external flash in TTL metering mode.



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& When selecting [On], it is recommended that you set [DISO] to [Auto].

# **Sequential Shooting/Self-Timer**

#### Performing the sequential/self-timer shooting



Adjust settings for burst or self-timer photography. Choose an option according to your subject. Other options, including anti-shock and silent modes, are also available.

() Fix the camera securely on a tripod for self-timer shooting.



| /+□           | Single                          | Single-frame advance. The camera takes one photo each time the shutter button is pressed all the way down.  |
|---------------|---------------------------------|---|
| _,/*_j<br>*_j | Sequential                      | The camera takes photos at up to about 20 fps while the shutter button is held all the way down. If <b>[C-AF]</b> , <b>[C-AF]</b> , <b>[C-AF]</b> , <b>[C-AF+TR]</b> , or <b>[C-AF+TR]</b> is selected for <b>[CAF Mode]</b> (P.100), the camera will focus before each shot.<br>When <b>[Metering during</b> ] (P.164) is set to <b>[Yes]</b> , the camera will meter the brightness and determines the exposure before each shot. |
| ♥⊒JSH1        | High-speed<br>Sequential<br>SH1 | The camera takes photos at up to about 120 fps while the<br>shutter button is held all the way down. Focus, exposure, and<br>white balance are locked at the values for the first shot in each<br>series.   |

| ♥⊒SH2                              | High-speed<br>Sequential<br>SH2 | The camera takes photos at up to about 50 fps while the shutter button is held all the way down. If <b>[C-AF]</b> , <b>[C-AF</b> |
|------------------------------------|---------------------------------|--|
| ProCap<br>ProCap SH1<br>ProCap SH2 | Pro Capture                     | Capture starts when the shutter button is pressed halfway. The camera starts recording pictures, including those captured while the button was pressed halfway, when the button is pressed all the way down (P.200). Focus and exposure during each ProCap mode are the same as $[\P] (\P Sequential), [\P SH1]$ ( $\P$ High-speed Sequential SH1) and $[\P SH2] (\P$ High-speed Sequential SH2).  |
| ` 12s / * ` 12s<br>* ` 12s         | Self-timer 12<br>sec            | The shutter is released 12 seconds after the shutter button is<br>pressed all the way down. The self-timer lamp will light for about<br>10 seconds and then start to flash about 2 seconds before the<br>shutter is released. The camera focuses when the shutter button<br>is pressed halfway.  |
| ల2s / *ల2s<br>*ల2s                 | Self-timer 2<br>sec             | When the shutter button is pressed all the way down, the self-<br>timer lamp will start to flash and a photo will be taken after<br>about 2 seconds. The camera focuses when the shutter button is<br>pressed halfway.   |
| ೮८/ ⁴೮೦<br><b>*</b> ೮೦             | Custom Self-<br>timer           | Adjust self-timer settings, including the self-timer delay and the number of shots taken when the timer expires (P.195).   |

&-You can choose the frame advance rate and the maximum number of shots in each series (P.193).

Items marked with allow you to take pictures with the small amount of blur caused by operation of the shutter reduced. Use this option when even slight camera motion can cause blur, for example during macro or telephoto photography. This is configured when [Anti-Shock [\*]] is set to [On] in [Anti-Shock [\*] Settings] (P.197).

- $otin ^{\bullet} = \mathbb{V}_{\mathbb{S}}$ SH2 and ProCap SH2 can only be used with specific lenses. Visit our website for details.

- When using <sup>\*</sup> SH2 or ProCap SH2 with [C-AF], [C-AF M], [C-AF+TR] or [C-AF+TR M]
   selected for AF Mode (P.100) and an aperture value larger than F8, the focus accuracy will decrease.
   F will be displayed on the screen.
- ⑦ In ♥□ SH1 and ProCap SH1 modes, the lower limit of the shutter speed is 1/15 s.
- In <sup>\*</sup> SH2 and ProCap SH2 modes, the lower limit of the shutter speed is 1/640 s when [Max fps] under [Sequential Shooting Settings] is set to [50fps] and 1/160 s when it is set to [25fps], [16.7fps], or [12.5fps].
- Shooting speed will be lower when [DISO] is 16000 or higher.
- ⑦ When [▲ ISO] is set to 16000 or higher in <sup>♥</sup>→ mode, the flash sync speed will be 1/50 s and the shooting speed will be limited to a maximum of 10 fps.
- ② If you stand in front of the camera to press the shutter button when using the self-timer, the picture may be out of focus.
- ① The speed of sequential shooting varies depending on the lens you are using and the focus of the zoom lens.
- ⑦ During sequential shooting, if the battery level icon blinks due to low battery, the camera stops shooting. The camera may not save all of the pictures depending on how much battery power remains.
- Photographs taken in silent and pro-capture modes may be distorted if the subject or camera moves quickly during shooting.
- ⑦ To use the flash in silent shooting modes, select [Allow] for [Flash Mode] in [Silent [♥] Settings] (P.198).
- Shooting speed may be lower when shooting in a dark place. You may be able to increase shooting speed by setting [ Night Vision] to [Off]. R "Making the display easier to see in dark places ( Night Vision)" (P.363)

#### Number of pictures that can be taken

The camera displays the number of pictures that can be stored in the remaining buffer in the following instances:

• When the shutter button is pressed halfway, when the shutter button is pressed fully, when writing to SD card



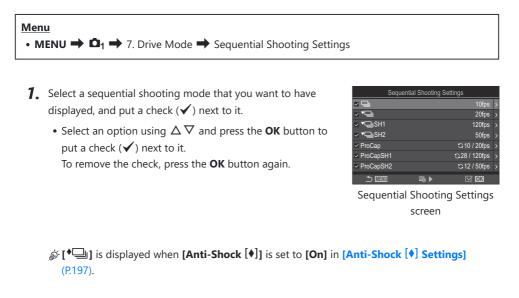
When it becomes **[00]** (red), the camera will be unable to record the next picture. When the images in the buffer are written to the card, the number will increase and the will be able to record pictures.

- () It is not displayed when there is no card in the camera.
- It may not be displayed depending on the functions that are in use.
- & The number is approximate and not exact. It may change depending on the shooting conditions.

### **Configuring the sequential shooting functions** (Sequential Shooting Settings)

PASMB

You can choose which types of sequential shooting modes are displayed when you press the  $\square \odot \ddagger$  button, and the maximum speed/number of frames for each sequential shooting mode.



- **2.** Press ▷.
- 3. Configure options.

| Max fps | Set the shooting speed for sequential shooting. The numbers indicate the approximate maximum speeds.<br>↓/ ↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓ |  |
|---------|--|--|
|         |  |  |

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| Pre-shutter<br>Frames<br>(ProCap/<br>ProCap SH1/<br>ProCap SH2<br>only) | Set the number of frames to be captured before the shutter button is pressed fully from between 0 and 99.  |
|---|--|
| Frame<br>Count<br>Limiter   | <ul> <li>Set the total number of frames from 2 to 99 (including the pre-shutter frames) to be captured. You can limit the number of frames that are captured after you press the shutter button fully. Shooting stops automatically when the limit is reached.</li> <li>Select [Off] if you do not want to put a limit on the number of frames.</li> <li>To put a limit on the number of frames, select the number and press the OK button. The setting screen appears. You can change the number with</li></ul> |

When [HDR], [Focus Stacking] or [Focus BKT] is enabled, [Frame Count Limiter] will be [Off].

 When using ♥□ SH2 or ProCap SH2, a shooting speed of [50fps] can only be configured with specific lenses. For compatible lenses, visit our website.

### Configuring the self-timer functions (Selftimer Settings)



You can choose which types of self-timer modes are displayed when you press the  $\square \odot \ddagger$  button, and change the self-timer settings such as the time the camera waits before taking a picture, and the number of frames it captures.



- Select a self-timer mode that you want to have displayed, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.

| Self-timer Settings |      |
|---------------------|------|
| 🛩 ప్ర12s            |      |
| ■ *⊗12s             |      |
| ∽ తి2s              |      |
| ✓ *⊗2s              |      |
| √ ৩C                |      |
| ■ *SC               |      |
|                     |      |
|                     | Z OK |

- [\* 12s], [\* 2s], and [\* 2c] is displayed when [Anti-Shock [\*]] is set to [On] in [Anti-Shock [\*] Settings] (P.197).
- 2. When setting Custom Self-timer, select [ŮC] / [⁴ŮC] / [⁴ŮC] (Custom Self-timer) and press ▷.

#### **3.** Configure options.

| Number of<br>Frames | Choose the number of shots taken when the timer expires.  |
|---------------------|---|
| స్త Timer           | Choose how long the camera waits to begin shooting after the shutter<br>button is pressed all the way down. |
| Interval Length     | If the number of shots is 2 or more, choose the interval between the shots taken when the timer expires.    |

| Every Frame AF | <b>[Off]</b> : If the number of shots is 2 or more, focus is locked when the first shot is taken. |
|----------------|---|
|                | [On]: The camera focuses before each shot.  |

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# Shooting without the vibration caused by shutter button operations (Anti-Shock [�] Settings)



Anti-shock shooting modes can be used to reduce the slight blur caused by shutter motion. Use this option when even slight camera motion can cause blur, for example during macro or telephoto photography.

| <b><u>enu</u></b><br><b>MENU</b> $\rightarrow$ $\square_1$ $\rightarrow$ 7. Drive Mode $\rightarrow$ Anti-Shock [ $\blacklozenge$ ] Settings |
|--|
|--|

| Anti-Shock<br>[�] | <ul> <li>[Off]: Anti-shock shooting modes ([*], [*], etc.) are not displayed on the drive mode selection screen. Normal shooting modes ([], [], etc.) are displayed.</li> <li>[On]: Anti-shock shooting modes ([*], [*], etc.) are displayed on the drive mode selection screen. Normal shooting modes ([], [], etc.) are not displayed.</li> </ul> |
|-------------------|---|
| Waiting           | Choose how long the camera waits to begin shooting after the shutter button is pressed all the way down when shooting in anti-shock shooting modes.   |
| Time              | [0sec], [1/8sec], [1/4sec], [1/2sec], [1sec], [2sec], [4sec], [8sec], [15sec], [30sec]  |

- Be sure there is a check (✓) next to a sequential shooting mode with ♦ in [Sequential Shooting Settings] (P.193).
- Select a mode with ♦ (P.190), press the **OK** button, then take pictures. After the specified time elapses, the shutter will be released and pictures will be taken.

## Shooting without shutter sound (Silent [♥] Settings)



In situations where the shutter sound is a problem, you can use the silent shooting modes to shoot without making a sound. An electronic shutter is used to reduce the minuscule camera shake caused by the motion of the mechanical shutter, much as is the case for anti-shock photography.

| Menu<br>• MENU → $\mathbf{D}_1$ → 7. Drive Mode → Silent [♥] Settings |   |
|---|---|
|   |   |
| Waiting Time  | Choose how long the camera waits to begin shooting after the shutter button is pressed all the way down when shooting in silent shooting modes.<br>[0sec], [1/8sec], [1/4sec], [1/2sec], [1sec], [2sec], [4sec], [8sec], [15sec], [30sec] |
| Noise Reduction   | <b>[Off]</b> : Shoots normally.<br><b>[Auto]</b> : Reduces image "noise" in long exposures during silent photography.<br>The sound of the shutter may be audible when noise reduction is active.  |
| ■)))  | Choose whether to allow the [=))] (P.403) to sound as specified.  |
| AF Illuminator  | Choose whether to allow [AF Illuminator] (P.134) to work as specified.  |
| Flash Mode  | Choose whether the flash works as specified.  |

⑦ During High Res Shot shooting (P.239), [IN], [AF Illuminator], and [Flash Mode] work in [Allow] mode even if they are set to [Not Allow].

When [High Res Shot] is set to [On ], however, [Flash Mode] is fixed at [ Flash Off].

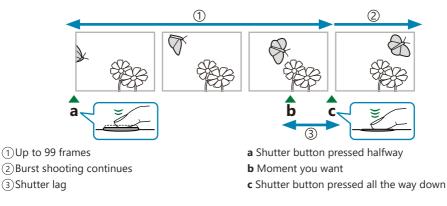
- Be sure there is a check (✓) next to a sequential shooting mode with ♥ in [Sequential Shooting Settings] (P.193).
- Select a mode with ♥ (P.190), press the **OK** button, then take pictures. The monitor turns dark for a short while when the shutter is released. The shutter does not sound.
- ① The desired results may not be achieved under flickering light sources such as fluorescent or LED lamps or if the subject moves abruptly during shooting.
- (1) The fastest available shutter speed is 1/32000 s.

(2) The flash sync speed will be 1/50 s when [ 150] is 16000 or higher.

### Shooting without a release time lag (Pro Capture shooting)



Capture starts when the shutter button is pressed halfway; the moment the button is pressed the rest of the way down, the camera will start saving the last n captured pictures to the memory card, where n is a number selected before shooting begins. If the button is held all the way down, shooting will continue until the selected number of pictures is recorded. Use this option to capture moments you might otherwise miss due to your subject's reactions or shutter lag.



#### Pro Capture (ProCap)

Choose this option if you anticipate that the distance to the subject will change during shooting. The camera shoots at up to 20 fps. A maximum of 99 frames can be captured before the shutter button is pressed all the way down. If **[C-AF]**, **[C-AF M3]**, **[C-AF+TR]**, or **[C-AF+TR M3]** is selected for **[OAF M0de]** (P.100), the camera will focus before each shot.

#### Pro Capture SH1 (ProCap SH1)

Choose this option if the distance to the subject is unlikely to change very much during shooting. The camera shoots at up to 120 fps. A maximum of 99 frames can be captured before the shutter button is pressed all the way down. The camera will use **[S-AF]** when **[C-AF]** or **[C-AF+TR]** is selected for **[OAF Mode]** (P.100) and **[S-AFME]** when **[C-AFME]** or **[C-AF+TRME]** is selected.

(In [ProCap SH1] mode, the lower limit of the shutter speed is 1/15 s.

#### Pro Capture SH2 (ProCap SH2)

The camera shoots at up to 50 fps. A maximum of 99 frames can be captured before the shutter button is pressed all the way down. If **[C-AF]**, **[C-AFM3]**, **[C-AF+TR]**, or **[C-AF+TRM3]** is selected for **[OAF Mode]** (P.100), the camera will focus before each shot.

- (The [ProCap SH2] mode is only available with specific lenses. Visit our website for details.
- ⑦ Using [C-AF], [C-AFME], [C-AF+TR] or [C-AF+TRME] AF mode (P.100) and an aperture value larger than F8 in [ProCap SH2] mode, the focus accuracy will decrease. ●F will be displayed on the screen.
- (1) In [ProCap SH2] mode, the lower limit of the shutter speed is 1/640 s when [Max fps] under [Sequential Shooting Settings] is set to [50fps] and 1/160 s when it is set to [25fps], [16.7fps], or [12.5fps].



- **1.** Select ProCap, ProCap SH1, or ProCap SH2 and press the **OK** button.
- **2.** Press the shutter button halfway to start capturing.
  - When the shutter button is pressed halfway, a capture icon
     ((2)) will be displayed. If the button is kept pressed halfway for over a minute, capture will end and the (2) icon will clear from the display. Press the shutter button halfway again to resume shooting.
  - Shooting will continue while the shutter button is pressed all the way down, up to the number of shots selected for [Frame Count Limiter].



- [Max fps], [Pre-shutter Frames], and [Frame Count Limiter] can be adjusted in [Sequential Shooting Settings] (P.193).
- **3.** Press the shutter button all the way down to start saving pictures to the memory card.

- (Pro Capture is not available while the camera is connected to a smartphone (Wi-Fi).
- ⑦ Flickering occurred by fluorescent lights or the large movement of the subject, etc. may cause distortions in images.
- (During capture, the monitor will not go dark and the sound of the shutter will not be heard.
- ① The slowest shutter speed is limited.
- ② Depending on subject brightness and the options selected for [ISO] and exposure compensation, the display frame rate may drop below that selected for [Frame Rate] (P.364).

# Reducing Flicker in Photographs (Anti-Flicker Shooting)



You may notice uneven exposure in photos taken under flickering light. When this option is enabled, the camera will detect the flicker frequency and adjust the timing of the shutter release accordingly.



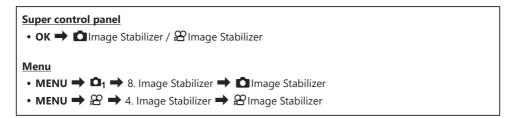
- ⑦ The camera may be unable to detect flicker at some settings. Normal release timing will be used if flicker is not detected.
- ⑦ Normal release timing is used at slow shutter speeds.
- ② Enabling flicker reduction may cause release lag, slowing the frame advance rate during burst photography.

# **Image Stabilization**

# Reducing camera shake ( CImage Stabilizer / Provide Stabilizer)

#### PASMB 🎛

You can reduce the amount of camera shake that can occur when shooting in low light situations or shooting with high magnification.



#### Image Stabilizer

| S-IS Off (Still-I.S. Off)        | Image stabilizer is off. Select this option when using a tripod.  |
|----------------------------------|---|
| S-IS Auto (Auto I.S.)            | Image stabilization applies to motion on all axes.<br>If panning motion is detected, the camera will automatically<br>suspend image stabilization on that axis. |
| S-IS1 (All Direction Shake I.S.) | Image stabilization applies to motion on all axes.  |
| S-IS2 (Vertical Shake I.S.)      | Image stabilization applies to vertical motion.<br>Use when panning the camera horizontally.  |
| S-IS3 (Horizontal Shake I.S.)    | Image stabilization applies to horizontal motion.<br>Use when panning the camera vertically.  |

#### Hage Stabilizer

| M-IS Off (Movie-I.S. Off) | Image stabilizer is off. |
|---------------------------|--------------------------|
|                           |                          |

| M-IS1 (All Direction Shake I.S.) | Electronic image stabilization combined with VCM-controlled image sensor movement.             |
|----------------------------------|--|
| M-IS2 (All Direction Shake I.S.) | VCM-controlled image sensor movement only.<br>Electronic image stabilization is not performed. |

#### Setting the detailed option of image stabilizer

When using lenses other than Micro Four Thirds or Four Thirds system lenses, input the focal length of the lens.

**1.** Press the **INFO** button while configuring **[D] Image Stabilizer]** or **[P] Image Stabilizer]**. Input the focal length using  $\Delta \nabla \triangleleft \triangleright$  and then press the **OK** button.



 Focal Length
 Set the lens focal length. Input the number that is printed on the lens.

 [0.1] – [1000.0] mm

- ② Image stabilization may be unable to compensate for excessive camera motion or very slow shutter speeds. Use a tripod in these cases.
- () You may notice noise or vibration while image stabilization is in effect.
- The setting selected with the lens image stabilization switch, if any, takes priority over that selected with the camera.

This can be changed. I "Stabilization for IS Lenses (Lens I.S. Priority)" (P.210)

- () [S-IS Auto] functions as [S-IS1] when [On] is selected for [Lens I.S. Priority] (P.210).
- When you select [S-IS Auto] or [S-IS1] with <sup>\*</sup> SH2/ProCap SH2 selected as the drive mode (P.190), the image stabilization will be suitable for camera moves in the depth direction, compared to when used with other sequential shooting modes.
- You can choose whether image stabilization will be performed while the shutter button is pressed halfway. I "Half-press image stabilization (—Image Stabilizer)" (P.207)

## 

#### PASMB

Choose the amount of image stabilization applied during movie recording.

| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 4. Image Stabilizer $\Rightarrow$ $\mathfrak{A}$ IS Level |   |
|---|---|
|   |   |
| +1  | Choose for static hand-held shots.                        |
| ±0  | Recommended in most situations.                           |
| -1  | Choose for hand-held panning, tilting, or tracking shots. |

## Half-press image stabilization ( — Image Stabilizer)



Choose whether image stabilization applies while the shutter button is pressed halfway. An example of a situation in which you might want to suspend image stabilization would be when using the level gauge to keep the camera level while framing photographs.

| Menu<br>• MENU → $\mathbf{D}_1$ → 8. Image Stabilizer → $=$ Image Stabilizer |   |  |
|--|---|--|
|  |   |  |
| On   | Image stabilization is performed while the shutter button is pressed halfway.     |  |
| Off  | Image stabilization is not performed while the shutter button is pressed halfway. |  |

### 



Choose the type of image stabilization applied during burst shooting. To maximize the effects of image stabilization during burst shooting, the camera centers the image sensor for every shot. This slightly reduces the frame advance rate.

| Menu<br>• MENU ➡ | $\mathbf{D}_1 \rightarrow 8$ . Image Stabilizer $\rightarrow \square$ Image Stabilizer |
|------------------|--|
| IS Priority      | Priority is given to image stabilization. The frame advance rate drops slightly.       |

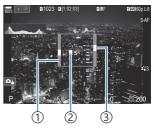
| Fps Priority | Priority is given to the frame advance rate. Image stabilization may be slightly less |
|--------------|---|
| rps Flionty  | effective under some conditions.  |

F

# Displaying camera motion on the monitor (Handheld Assist)

You can configure the camera to display the motion of the camera and the boundaries of motions that can be corrected by the image stabilizer when the shutter button is pressed halfway and during exposure. This is useful when you want to reduce camera motion during long exposure with the camera held by hand.

#### P A S M B 🔐



- The boundaries of motions that can be corrected by the image stabilizer (gray)
- (2) Camera motion (horizontal/ vertical)
- ③Camera motion (roll)

#### 

• **MENU**  $\Rightarrow$   $\mathbf{D}_1$   $\Rightarrow$  8. Image Stabilizer  $\Rightarrow$  Handheld Assist

| Off | Camera motion is not displayed on the monitor.  |
|-----|---|
| On  | Camera motion is displayed on the monitor when the shutter button is pressed halfway and during exposure. |

- ⑦ There is no guarantee that the picture will be without blurs, even if the camera motion indicator stays within the gray frame.
- (Camera motion cannot be displayed correctly when the camera is close to the subject.
- ⑦ Camera motion is not displayed if [D Image Stabilizer] is set to [Off] or if you are using thirdparty lenses, with which only the lens image stabilizer operates.
- If [Image Stabilizer] is set to [Off], camera motion is only displayed during exposure.

#### Stabilization for IS Lenses (Lens I.S. Priority)



When using a third-party lens with an on-board image stabilizer, choose whether image stabilization gives priority to the camera or the lens.

This option has no effect if the lens is equipped with an IS switch that can be used to enable or disable image stabilization.

| Menu<br>• MENU → $\mathbf{D}_1$ → 8. Image Stabilizer → Lens I.S. Priority |  |  |  |
|--|--|--|--|
| On   | Priority is given to lens image stabilization. |  |  |

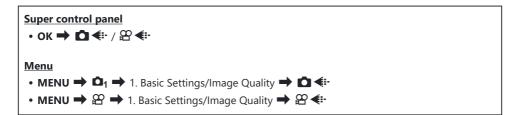
| Off | Priority is given to camera image stabilization. |
|-----|--|
|-----|--|

# **Color and Quality**

## 



You can set the image quality modes for photos and movies. Select a quality suitable for the application (such as for processing on PC, use on website etc.).



#### Configuring 🖸 4:

| Item                    | Image size                              | Compression ratio     | File format |
|-------------------------|---|-----------------------|-------------|
| <b>L</b> SF 5184 × 3888 |   | SuperFine (1/2.7)     | JPG         |
| <b>□</b> F              | 5184 × 3888                             | Fine (1/4)            | JPG         |
| <b>N</b>                | 5184 × 3888                             | Normal (1/8)          | JPG         |
| M1 N                    | 3200 × 2400                             | Normal (1/8)          | JPG         |
| RAW                     | 5184 × 3888                             | Loss-less compression | ORF         |
| RAW+JPEG                | RAW plus the JPEG option selected above |                       |             |

She image size/compression combinations available can be selected in the menus.

"Combinations of JPEG image sizes and compression rates (

- The options available during high resolution shooting (P.239) are III F, III F, III F, RAW, III F+RAW, IIII F+RAW, IIII F+RAW.
- When [Standard], [Dual Same↓□], or [Dual Same↑□], or [Auto Switch] is selected for [□ Save Settings] in [□ Card Slot Settings] (P.388), the selected option applies to the cards in both slots
   1 and 2.
- () Im F and Im F+RAW are unavailable when [On ] is selected for High Res Shot (P.239).
- ② Selecting High Res Shot (P.239) changes the image quality option selected; be sure to check the image quality setting before shooting.
- RAW files store raw image data in an unprocessed state. Choose this format (extension ".ORF") for pictures that will later be enhanced.
  - Cannot be viewed on other cameras
  - Can be viewed on computers using OM Workspace Digital Photo Managing software
  - Can be saved in JPEG format using the [RAW Data Edit] (P.320) retouch option in the camera menus

#### Configuring 🍄 4:

• To change the settings of each image quality mode, press > while an image quality mode is selected.

#### The Movie Quality Icon

Changes to settings are reflected in the  $extsf{M}$  movie quality icon as shown. Up to three combinations can be saved.



Movie Resolution
 Playback Frame Rate
 Motion Compensation

#### **Movie Resolution**

| 4K  | 4K                      | 3840 × 2160 |
|-----|-------------------------|-------------|
| FHD | FHD (Full HD)           | 1920 × 1080 |
| C4K | C4K (4K Digital Cinema) | 4096 × 2160 |

#### **Motion Compensation**

| I-8 <sup>1</sup> | A-I (ALL-Intra <sup>2</sup> ) |
|------------------|-------------------------------|
| L-8 <sup>1</sup> | L-GOP (LongGOP)               |

- 1 When [**Yideo Codec**] (P.217) is [H.264]: "-8" [H.265]: "-10"
- 2 When ALL-Intra is used, the movie will be recorded without interframe compression. It is suitable for editing, but the data will be large.
- Fixed to [L-GOP] when [Movie Resolution] is [4K] or [C4K].

#### **Playback Frame Rate**

| 60p    | 59.94p (59.94fps) |
|--------|-------------------|
| 50p    | 50.00p (50.00fps) |
| 30p    | 29.97p (29.97fps) |
| 25p    | 25.00p (25.00fps) |
| 24.00p | 24.00p (24.00fps) |
| 24p    | 23.98p (23.98fps) |

• [24.00p] can only be selected when [Movie Resolution] is [C4K].

#### **Slow or Fast Motion**

| — | Off           |
|---|---------------|
| — | Number (rate) |

- Large rate means fast recording and small rate means slow recording.
- Because the movies are played back at the designated speed, they will look like slow motion/fast motion movies.

② Sound is not recorded.

- ② Art filters selected in Picture Mode are disabled.
- ⑦ Slow recording and/or fast recording may be unavailable depending on the [♀ ◆ ] setting.
- () Only 1/24 or higher shutter speed is available. Availability depends on the [Frame Rate] setting.

- Depending on the card used, recording may end before the maximum length is reached.
- ⑦ Motion Compensation selection may be unavailable at some settings.
- () Movies are recorded at an aspect ratio of 16:9. C4K movies are recorded at an aspect ratio of 17:9.

#### Filming High-Speed Movies

Film at high frame rates. Movies are filmed at 100 - 240 fps and play back at 23.98 - 59.94 fps. Stretching playback to  $2 \times -10 \times$  the recording time lets you view in slow motion movements that in real life took only the blink of an eye.

A high-speed movie option can be included in the movie image quality menu. Your choice of playback frame rate determines the playback speed multiplier. Limitations apply to combination of the Sensor Frame Rate and Playback Frame Rate.

Changes to settings are reflected in the icon as shown below. Changes to settings are reflected in the movie quality icon as shown.



Movie Resolution
 Sensor Frame Rate
 Playback Frame Rate
 Motion Compensation

#### **Movie Resolution**

| FHD | FHD (Full HD) | 1920 × 1080 |
|-----|---------------|-------------|
|-----|---------------|-------------|

#### Sensor Frame Rate

240fps/200fps/120fps/100fps

• 240fps can only be selected when [ Video Codec] (P.217) is [H.264].

#### **Motion Compensation**

L-8<sup>1</sup> L-GOP (LongGOP)

1 When [ **Wideo Codec**] (P.217) is [H.264]: "-8" [H.265]: "-10"

#### **Playback Frame Rate**

| 60p | 59.94p (59.94fps) Playback rate: ×0.5/0.25  |
|-----|---|
| 50p | 50.00p (50.00fps) Playback rate: ×0.5/0.25  |
| 30p | 29.97p (29.97fps) Playback rate: ×0.25/0.12 |
| 25p | 25.00p (25.00fps) Playback rate: ×0.25/0.13 |
| 24p | 23.98p (23.98fps) Playback rate: ×0.2/0.1   |

- To change the settings for high-speed movies, press  $\triangleright$  while an image quality mode is selected.
- (2) When an SD/SDHC card is used, the size of one file is limited to 4 GB.
  - When an SDXC card is used, recording stops before the playback time reaches 3 hours.
- ${\textcircled O}$  Focus, exposure, and white balance lock during recording.
- ② Sound is not recorded.
- ⑦ The picture angle is slightly reduced.
- ② Aperture, shutter speed, exposure compensation, and ISO sensitivity cannot be changed during recording.
- ⑦ Time codes cannot be recorded or displayed.
- () Brightness may change if zoom is adjusted during recording.
- ${}^{\textcircled{}}$  High-speed movie recording is not available while the camera is connected to an HDMI device.
- When recording high-speed movies, [IIIII] All (all targets) cannot be selected for AF target mode.
- [P:204] > [M-IS1] is not available.
- ( [i-Enhance] and art filter picture modes (P.220) are not available.
- (P.223) is fixed at [Gradation Normal].
- (1) High-speed movie recording is not available during remote photography when the camera is connected to a smartphone.

# 

PASMB

You can set the JPEG image quality by combining image size and compression rate.



| Image size         | Compression ratio |             | n ratio     |                                       |  |
|--------------------|-------------------|-------------|-------------|---------------------------------------|--|
| (Pixel count)      | Super<br>Fine     | Fine        | Normal      | Application                           |  |
| Large (5184×3888)  | SF                | <b>D</b> F  | LN          |                                       |  |
| Middle (3200×2400) | M1 SF             | M1 F        | M1 N        | Select for the print size             |  |
| Middle (1920×1440) | M2 SF             | M2 F        | M2 N        |                                       |  |
| Small (1280×960)   | <b>S1</b> SF      | <b>S1</b> F | <b>S1</b> N | For small prints and use on a website |  |
| Small (1024×768)   | <b>S2</b> SF      | <b>S2</b> F | <b>S2</b> N |                                       |  |

## Choosing the codec for recording movies ( $\stackrel{\mbox{\ensuremath{\square}}}{\mbox{\ensuremath{\square}}}$ Video Codec)

#### PASMB

Choose the codec to be used when recording movies.

| Menu         • MENU ➡ ≅ ➡ 1. Basic Settings/Image Quality ➡ ≅ Video Codec |   |  |
|---|---|--|
| H.264   | Records 8-bit movies using H.264, which is a versatile codec. This setting is recommended in most circumstances.                |  |
| H.265   | Records 10-bit movies using the H.265 codec. This setting is primarily for movies that are intended to be edited on a computer. |  |

When [H.265] is selected, only [\*2 OM-Log400] and [\*3 3 HLG] are available for [Picture Mode] (P.226). For playback with the correct color and brightness, a TV or a display compatible with 10-bit input is required. When outputted to a HDMI device compatible with 10-bit input, the colors of icons may look different from the way they usually look.

#### Setting the image aspect (Image Aspect)

#### P A S M B 🕾

Choose the ratio of width to height for pictures according to your intent or your goals for printing or the like. In addition to the standard aspect (width-to-height) ratio of **[4:3]**, the camera offers settings of **[16:9]**, **[3:2]**, **[1:1]**, and **[3:4]**.



• JPEG images are recorded at the selected aspect ratio. RAW images are the same size as the image sensor and are recorded at an aspect ratio of **[4:3]** with a tag indicating the aspect ratio selected. A crop indicating the selected aspect ratio is displayed when images are played back.

#### Peripheral illumination (Shading Comp.)

#### PASMB 🔐

Compensate for the drop in brightness at the edges of the frame due to the optical characteristics of the lens. Some lenses may exhibit a drop in brightness at the edges of the frame. The camera can compensate for this by making the edges brighter.

| Menu<br>• MENU → $\square_1$ → 1. Basic Settings/Image Quality → Shading Comp. |   |  |
|--|---|--|
| Off  | Shading compensation disabled.  |  |
| On   | The camera detects and compensates for reduced peripheral illumination. |  |

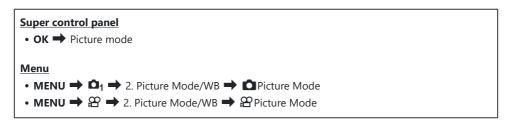
() [On] has no effect when a teleconverter or extension tube is attached.

() Noise may be more noticeable at the edges of the frame at high ISO sensitivities.

## Processing options ( Picture Mode / Picture Mode)



Choose how pictures are processed during shooting to enhance color, tone, and other properties. Choose from preset picture modes according to your subject or artistic intent. Contrast, sharpness, and other settings can be adjusted separately for each mode. You can also add artistic effects using art filters. Art filters give you the option of added frame effects and the like. Adjustments to individual parameters are stored separately for each picture mode and art filter.



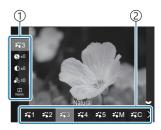
When in movie mode with the camera configured as follows, you can set the same setting as the

[DPicture Mode] (P.220) setting by selecting [Picture Mode] from the super control panel.

- [ Wideo Codec] is set to [H.264] and [ Picture Mode] is set to [Same as

#### Setting **D**Picture Mode

**1.** Select a picture mode using the rear dial or  $\triangleleft \triangleright$ .



Picture Mode setting screen

Item
 Picture mode

| ₽⊾1  | i-Enhance     | The camera adjusts colors and contrast for optimal results according to the type of subject.   |
|------|---------------|--|
| ≈**2 | Vivid         | Choose for vivid colors.   |
| ≈**3 | Natural       | Choose for natural colors.   |
| ₽,*4 | Muted         | Choose for pictures that will later be retouched.  |
| ≈**5 | Portrait      | Enhance skin tones.  |
| ₹¥M  | Monochrome    | Record pictures in monochrome. You can apply color filter effects and choose a tint.   |
| ₩C   | Custom        | Adjust picture mode parameters to create a custom version of a selected picture mode.  |
|      | Underwater    | Process pictures to preserve the vivid colors seen under water.<br>We recommend choosing [Off] for [\$+WB] (P.236) when<br>[*:*-Underwater] is selected. |
| ٢    | Color Creator | Adjust hue and color to suit your creative intent.   |

| ART<br>1  | Pop Art          |
|-----------|------------------|
| ART<br>2  | Soft Focus       |
| ART<br>3  | Pale&Light Color |
| ART<br>4  | Light Tone       |
| ART<br>5  | Grainy Film      |
| ART<br>6  | Pin Hole         |
| ART<br>7  | Diorama          |
| ART<br>8  | Cross Process    |
| ART<br>9  | Gentle Sepia     |
| ART<br>10 | Dramatic Tone    |
| ART<br>11 | Key Line         |
| ART<br>12 | Watercolor       |
| ART<br>13 | Vintage          |
| ART<br>14 | Partial Color    |
| ART<br>15 | Bleach Bypass    |
| ART<br>16 | Instant Film     |

#### Setting detailed options of a Picture Mode

- **1.** Press  $\Delta \nabla$  on the Picture Mode setting screen (P.220) to select the option you want to set.
  - Available settings vary depending on the selected picture mode.



| 0 | Sharpness  | Adjust image sharpness. Outlines can be emphasized for a sharp, clear picture.<br>[-2] – [±0] – [+2]   |
|---|------------|--|
| ● | Contrast   | Adjust image contrast. Increasing contrast heightens the difference between bright and dark areas for a harder, more well-defined picture.<br>[-2] – [±0] – [+2]   |
| • | Saturation | Adjust color saturation. Increasing saturation makes pictures more vivid.<br>[-2] – [±0] – [+2]  |
|   | Gradation  | Adjust color brightness and shading. Bring pictures closer to<br>what you envisage by, for example, brightening the entire<br>picture. Depending on the contrast, you can produce both dark<br>gradations and bright gradations.                             |
|   |            | <b>[Shadow Adj]</b> : Divides the image into detailed regions and<br>adjusts the brightness separately for each region. This is<br>effective for images with areas of large contrast in which the<br>whites appear too bright or the blacks appear too dark. |
|   |            | [Gradation Normal]: Optimal shading. Recommended in most circumstances.  |
|   |            | [Gradation High Key]: Uses a tone suitable for a bright subject.   |
|   |            | [Gradation Low Key]: Uses a tone suitable for a dark subject.  |

| Effect  | Effect                       | Choose the strength of i-Enhance.<br>[Effect: Low]: Adds a low effect to images.<br>[Effect: Standard]: Adds an effect between "low" and "high" to<br>images.<br>[Effect: High]: Adds a high effect to images.   |
|---|------------------------------|--|
| Filter  | Color Filter                 | <ul> <li>Color filter effects can be added to monochrome picture modes. Depending on the color of the subject, color filter effects can make subjects brighter or enhance contrast. Orange adds more contrast than yellow, red more contrast than orange. Green is a good choice for portraits and the like.</li> <li>[N:None]: No filter effect.</li> <li>[Ye:Yellow]: Reproduces clearly defined white cloud with natural blue sky.</li> <li>[Or:Orange]: Slightly brings out blue skies or the light of the setting sun.</li> <li>[R:Red]: Further brings out blue skies or autumn foliage.</li> <li>[G:Green]: Adds warmth to skin tones in portraits. The green filter also emphasizes the reds in lipstick.</li> </ul> |
| Color   | Monochrome<br>Color          | <ul> <li>Add a tint to pictures when using monochrome picture modes.</li> <li>[N:Normal]: Creates a normal black and white image.</li> <li>[S:Sepia]: Shoot in sepia-tinted monochrome.</li> <li>[B:Blue]: Shoot in blue-tinted monochrome.</li> <li>[P:Purple]: Shoot in purple-tinted monochrome.</li> <li>[G:Green]: Shoot in green-tinted monochrome.</li> </ul>   |
| גֿייַ 1<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי<br>גענייי | <b>č</b> ∎ C Picture<br>mode | Choose a picture mode you want to adjust when using<br>[Custom].<br>[i-Enhance], [Vivid], [Natural], [Muted], [Portrait],<br>[Monochrome]  |

| ٢      | Color Creator | Rotate the front dial to adjust hue. Rotate the rear dial to adjust saturation.<br>To reset exposure compensation, press and hold the <b>OK</b> button.                            |
|--------|---------------|--|
| Effect | Add Effects   | Add effects to an art filter.<br>The effects that can be added differ depending on the art filter.<br>With some art filters, Color Filter and Monochrome Color can<br>be adjusted. |
| Color  | Partial Color | Selects the art filter "partial color".  |

- ② Art filters apply only to the JPEG copy. [RAW+JPEG] is automatically selected for image quality in place of [RAW].
- ② Depending on the scene, the effects of some settings may not be visible, while in other cases tone transitions may be ragged or the image rendered more "grainy".
- You can choose whether to show or hide each picture mode using the [ Picture Mode Settings] (P.227) menu.

#### 

- 1. Select [Picture Mode] from the menu.
- **2.** Highlight an item using  $\Delta \nabla \triangleleft \triangleright$ .



| ۵             | Same as                     | Movies are recorded using the same setting as configured in<br>Picture Mode.  |
|---------------|-----------------------------|---|
| <b>*i</b> æ1  | ≇ <b>i</b> ≊1 Flat          | Movies are recorded using a tone curve adapted to color grading.  |
| <b>₽</b> ₽2   | <b>≯</b> ∎≌ 2 OM-<br>Log400 | Movies are recorded using a log tone curve for greater freedom during color grading.  |
| <b>∛</b> ∎≌ 3 | ¥i፼3 HLG                    | Movies are recorded with a high dynamic range, reproducing<br>images as seen with the naked eye when played back using<br>compatible equipment. |

(P217) is set to [H.264].
 (P217) is set to [H.264].
 (P217) is set to [H.264].

# Choosing which options are displayed when selecting a picture mode ( Picture Mode Settings)



You can display only the options you need when selecting a picture mode.



- Select a picture mode that you want to have displayed, and put a check (✓) next to it.
  - Select an option using △ ∇ and press the OK button to put a check (✓) next to it. To remove the check, press the OK button again.

| Picture Mode Settings          |    |
|--------------------------------|----|
| ✓ i-Enhance                    |    |
| ✓ Vivid                        | ^  |
| ✓ Muted                        |    |
| ✓ Portrait                     |    |
| <ul> <li>Monochrome</li> </ul> |    |
| ✓ Custom                       | ~  |
| ✓ Underwater                   |    |
| <b>⇒</b> ≣∎ ⊻                  | OK |

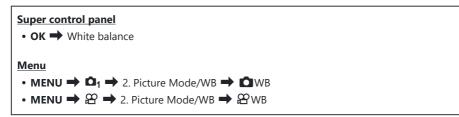
Picture Mode Settings screen

#### Adjusting color (WB (white balance))

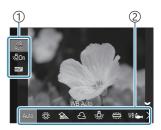
#### PASMB

White balance (WB) ensures that white objects in images recorded by the camera appear white. **[Auto]** is suitable in most circumstances, but other values can be selected according to the light source when **[Auto]** fails to produce the desired results or you wish to introduce a deliberate color cast into your images.

#### Setting the white balance



**1.** Select a WB mode using the rear dial or  $\triangleleft \triangleright$ .



WB setting screen

Item
 White balance

**2.** To set the detailed options of the selected picture mode, select an option using  $\Delta \nabla$ .

| Auto | WB Auto | <ul> <li>Most normal scenes (scenes containing objects that are white or close to white)</li> <li>This mode is recommended in most situations.</li> <li>You can choose the white balance used under incandescent lighting (P.235).</li> </ul> |
|------|---------|---|
|------|---------|---|

| 淤  | Sunny               | Sunlit outdoor scenes, sunsets, fireworks <ul> <li>Color temperature is set to 5300K.</li> </ul>  |
|--|---------------------|---|
| Û.   | Shade               | Daylight shots of subjects in the shade<br>• Color temperature is set to 7500K.   |
| ප  | Cloudy              | <ul><li>Shots taken in daylight under overcast skies</li><li>Color temperature is set to 6000K.</li></ul>   |
| - <u>Å</u> -   | Incandescent        | Subjects under incandescent lighting <ul> <li>Color temperature is set to 3000K.</li> </ul>   |
| <u>,</u>   | Fluorescent         | Subjects under fluorescent lighting <ul> <li>Color temperature is set to 4000K.</li> </ul>  |
| WB 🖦   | Underwater          | Underwater photography  |
| WB\$   | WB Flash            | Light sources with the same color temperature as flash<br>lighting<br>• Color temperature is set to 5500K.  |
| <ul> <li>▲1</li> <li>▲2</li> <li>▲3</li> <li>▲4</li> </ul> | One-touch WB<br>1-4 | <ul> <li>Situations in which you want to set white balance for a specific subject</li> <li>Color temperature is set to a value metered from a white object under the lighting what will be used in the final photograph (P.231).</li> </ul> |
| CWB  | Custom WB           | Situations in which you can identify the appropriate color<br>temperature<br>• Choose a color temperature.  |

### Making fine adjustments to white balance of each WB mode

You can fine-tune the white balance settings. Adjustments can be made separately.

- **1.** Configure options.
  - Press  $\Delta \nabla$  on the WB setting screen (P.228) to select the option to adjust.



| WB Keep Warm<br>Color<br>(only when WB<br>Auto is used) | <ul><li>[Off]: The camera suppresses the warm tones produced by incandescent lighting when WB Auto is used.</li><li>[On]: The camera preserves the warm tones produced by incandescent lighting when WB Auto is used.</li></ul>  |
|---|--|
| WBZ<br>(WB Compensation)                                | Use the front dial or $\triangleleft \triangleright$ to adjust the "amber-blue" axis. Moving<br>the pointer (+) closer to A adds a red cast and moving it closer to B<br>adds a blue cast.<br>Use the rear dial or $\triangle \bigtriangledown$ to adjust the "green-magenta" axis.<br>Moving the pointer (+) closer to G adds a green cast and moving it<br>closer to M adds a magenta cast.<br>When $\blacksquare \blacksquare$ (WB Compensation) is done, a mark (*) appears next to<br>the WB mode icon.<br>Pressing the <b>INFO</b> button in still photography mode allows you to<br>take a test picture with the current configuration. Press the <b>INFO</b><br>button again to return to the setting screen.<br>To reset exposure compensation, press and hold the <b>OK</b> button.<br>$\clubsuit$ Fine-tune white balance of all white balance modes at once.<br>$\blacksquare \blacksquare$ [ $\bigcirc$ All $\blacksquare \blacksquare$ ] (P.234) |
| Kelvin<br>(only for Custom<br>WB)                       | You can set the color temperature.<br>[2000K] – [14000K]   |

#### **One-touch white balance**

Measure white balance by framing a piece of paper or other white object under the lighting that will be used in the final photograph. Use this option to fine-tune white balance when you find it hard to obtain the desired results with white balance compensation or preset white balance options such as (sunlight) or (overcast). The camera stores the metered value for quick recall as required. Settings for still photography and movie recording can be stored individually.

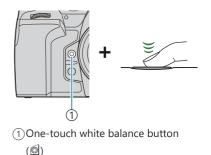
- Select [♣1], [♣2], [♣3], or [♣4] (one-touch white balance 1, 2, 3, or 4) on the WB setting screen.
- 2. Select 🗣 Set.
- **3.** Frame a piece of colorless (white or gray) paper in the center of the display.
  - Frame the piece of paper so that it fills the display. Ensure that it is free of shadows.
  - Press the INFO button.
  - The one-touch white balance screen appears.
- 4. Highlight [Yes] and press the OK button.
  - The new value is saved as a preset white balance option.
  - The new value is stored until one-touch white balance is measured again. Turning the power off does not erase the data.

### Metering White Balance with the One-Touch White Balance Button (2)

Assigning [**S**] to a button allows the control to be used to measure white balance. By default, the button can be used to measure white balance during still photography. To measure white balance during movie recording, you must first assign one-touch white balance to a control using [**B** Button Function] (P.334).

- **1.** Frame a piece of colorless (white or gray) paper in the center of the display.
  - Frame the piece of paper so that it fills the display. Ensure that it is free of shadows.

**2.** Hold the button to which One-Touch White Balance is assigned and press the shutter button all the way down.



• When recording movies, press the one-touch white balance button to proceed to Step 3.

- You will be prompted to choose the one-touch white balance option that will be used to store the new value.
- **3.** Highlight an option using  $\Delta \nabla$  and press the **OK** button.
  - The new value will be saved as the value for the selected setting and the camera will exit to the shooting display.

| One Touch WB |    |
|--------------|----|
| 14000K       |    |
|              |    |
|              | OK |

#### Locking the white balance in movie mode (PButton Function: AUTO Lock)



When the camera is in movie mode and the white balance is set to **[WB Auto]**, you can lock the white balance to prevent it from changing even if the subject or the lighting changes.

(P.334).

#### **Button**

• A button to which [AUTO Lock] has been assigned

When you press the button, white balance is locked with the currently selected settings and "Lock" appears to the left of "WBAuto". Lock is released when you press the button again.

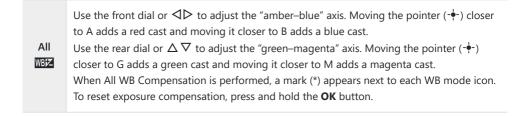


## Making fine adjustments to white balance (CAII $\square \square \square \square \square$ AII $\square \square \square$ )

#### PASMB

Fine-tune white balance of all white balance modes at once.





#### Preserving the warm tones of incandescent lighting when in WB Auto mode ( AUTO Keep Warm Color/ AUTO Keep Warm Color)

#### PASMB 🎛

Choose how the camera adjusts white balance for pictures taken using auto white balance under incandescent lighting.

| Menu  |
|---|
| • MENU → 🕰 → 2. Picture Mode/WB → 🗖 🖓 Keep Warm Color   |
| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 2. Picture Mode/WB $\Rightarrow$ $\mathfrak{A} \oplus \mathfrak{A} \mathfrak{A} \oplus \mathfrak{A} \mathfrak{A} \oplus \mathfrak{A} \mathfrak{A} \oplus \mathfrak{A} \mathfrak{A} \mathfrak{A} \mathfrak{A} \mathfrak{A} \mathfrak{A} \mathfrak{A} \mathfrak{A}$ |
|   |

| Off | The camera suppresses the warm tones produced by incandescent lighting. |
|-----|---|
| On  | The camera preserves the warm tones produced by incandescent lighting.  |

You can fine-tune the white balance settings. I "Making fine adjustments to white balance of each WB mode" (P.230)

#### 

#### PASMB

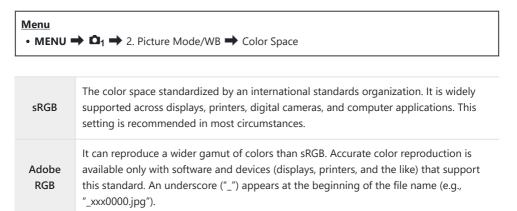
Choose the white balance used for photos taken with a flash. Instead of using a setting adapted to flash lighting, you can opt to prioritize the value selected for non-flash photography. Use this option to automatically switch from one white balance setting to another when you find yourself frequently enabling and disabling the flash.

| Menu<br>• MENU → $\square_1$ → 2. Picture Mode/WB → $\ddagger$ +WB |   |
|--|---|
| Off  | The camera uses the value currently selected for white balance. |
| WB Auto  | The camera uses auto white balance ([Auto]).                    |
| WB <b>\$</b> 5500K   | The camera uses flash white balance ( <b>[WB\$]</b> ).          |

### Setting the color reproduction format (Color Space)



You can select a format to ensure that colors are correctly reproduced when shot images are regenerated on a monitor or using a printer.



⑦ [Adobe RGB] is not available in HDR or movie (𝒫) mode or when an art filter is selected for picture mode.

#### Preview Options for [船 Picture Mode] (済 ♀ View Assist)



The display can be adjusted for ease of viewing when [⅔ 1 Flat] or [⅔ 2 OM-Log400] is selected for [☆ Picture Mode] (P.226).

| Menu<br>• MENU ➡ 紹 ➡ 2. Picture Mode/WB ➡ ♣ 紹 View Assist |
|---|
|   |

On Adjust the picture for ease of viewing. The indicators in the display may change color.Off Do not adjust the picture for ease of viewing.

() This option applies only to the display, not to the actual movie files.

- ⑦ This option does not apply when movies recorded using [⅔ 1 Flat] or [⅔ 2 OM-Log400] are played back on the camera. It also does not apply when the movies are viewed on a TV.
- The histogram (P.49) and zebra pattern (P.288) are processed based on the picture before View Assist is applied.

### Special shooting modes (Computational Modes)

### Shooting still pictures in a higher resolution (High Res Shot)



Shoot at resolutions higher than that of the image sensor. The camera takes a series of shots while moving the image sensor and combines them to create a single high-resolution photo. Use this option to capture details that normally would not be visible even at high zoom ratios.

When High Res Shot is enabled, the image quality mode for High Res Shot can be selected using [1] (P.211).



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#### **Enabling High Res Shot**

**1.** Use  $\Delta \nabla$  to select **[High Res Shot]** and press the **OK** button.



High Res Shot setting screen

**2.** Use  $\triangleleft \triangleright$  to select **[On**  $\Re$ ] (tripod) or **[On**  $\Re$ ] (handheld) and press the **OK** button.

| Off                     | High Res Shot is disabled.   |
|-------------------------|--|
| On <b>兇</b><br>(Tripod) | Shoot with the camera fixed to a tripod. The RAW picture is recorded in 80M (10368 $\times$ 7776). |
| On 🛋<br>(Handheld)      | Shoot with the camera in your hands. The RAW picture is recorded in 50M (8160 $\times$ 6120).      |

**3.** The display returns to the High Res Shot setting screen.

When setting from the button, you can turn this function on and off using the button. You can also switch between [On ?] (tripod) and [On ] (handheld) by rotating the front or rear dial while pressing the button.

#### **Configuring High Res Shot**

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
  - After configuring options, press the **OK** button to return to High Res Shot setting screen.

| High Res Shot     |         |
|-------------------|---------|
| High Res Shot     | On 🕏    |
| <b>€</b>          | ໜ F+RAW |
| RAW Recording Bit | 12bit   |
| Waiting Time      | 0sec    |
| Charge Time       | 0sec    |
|                   |         |
| <b>⇒</b> III      | OK      |

|                        | Choose the image quality of High Res Shot shooting (P.211).  |
|------------------------|--|
| I RAW<br>Recording Bit | Select the bit depth of RAW images created. [12bit]/[14bit]  |
|                        | A [14bit] image will have richer tones, but the file size will be larger<br>and the post-processing time will also be longer than that of a [12bit]<br>image. Choose for pictures that will later be edited on a computer. |
| Waiting Time           | Set how long the camera waits before releasing the shutter after you press<br>the shutter button fully. Use this to prevent the effect of camera shake<br>caused by the pressing of the shutter button.                    |

Choose how long the camera waits for the flash to charge between shots when using a flash unit not specifically designated for use with the camera.

#### Shooting

- **1.** Press the **MENU** button to close the High Res Shot setting screen and return to shooting screen.
  - The I icon will be displayed. The i icon will flash if the camera is not steady. The i icon stops flashing when the camera is steady and ready to shoot.
  - After enabling High Res Shot, check the option selected for image quality. Image quality can be adjusted in the super control panel.
  - When [IRAW Recording Bit] is set to [14bit], a mark (\*) appears next to "RAW" for image quality.



- 2. Release the shutter.
  - Shooting is complete when the green 🎟 icon clears from the display.
  - The camera will automatically create the composite image when shooting is complete. A message will be displayed during this process.
- Choose from JPEG (Im F, Im F, or Im F) and RAW+JPEG modes. When image quality is set to RAW+JPEG, the camera saves a single RAW image (extension ".ORI") before combining it with the high resolution shooting. Pre-combination RAW images can be played back using the latest version of OM Workspace.
- () Im F and F+RAW are unavailable when [On ] (handheld) is selected as the shooting method.

- ⑦ [S-IS Off] is automatically selected for [ Image Stabilizer] (P.204) when [On R] (tripod) is chosen, [S-IS Auto] when [On R] (handheld) is selected.
- (The maximum wait time for [On 1] (handheld) is 1 second.
- (During RC flash photography, the maximum flash wait time is 4 seconds and the flash control mode is fixed at [Manual].
- The following cannot be used:
  - multiple exposure, keystone compensation, bracketing, focus stacking, fisheye correction, and HDR, anti-flicker shooting, live ND shooting, live GND shooting
- When [High Res Shot] is set to [On ?] (tripod), [Time Lapse Movie] becomes [Off].
- When High Res Shot is enabled, [Drive] is set to [<sup>♥</sup>□] (Silent Single). [<sup>♥</sup>⊙ 12s] (Silent self-timer 12s), [<sup>♥</sup>⊙ 2s] (Silent self-timer 2s) and [<sup>♥</sup>⊙ C] (Silent custom self-timer) can be set.
- (Pictures taken with an art filter selected for picture mode will be recorded in [Natural] mode.
- () Image quality may drop under flickering light sources such as fluorescent or LED lamps.
- (1) If the camera is unable to record a composite image due to blur or other factors, and if [JPEG] is selected for image quality, the first shot will be recorded in JPEG format. If [RAW+JPEG] is selected, the camera will record two copies of the first shot, one in RAW (.ORF) and the other in JPEG format.

### Slowing the Shutter in Bright Light (Live ND Shooting)



The camera combines a series of exposures to create a single photo, giving the appearance of a single photo taken at a slow shutter speed.

#### **Enabling Live ND Shooting**



**1.** Use  $\Delta \nabla$  to select [Live ND Shooting] and press the OK button.

| Live ND Shooting           |                |
|----------------------------|----------------|
| Live ND Shooting           | Off            |
| ND Number<br>LV Simulation | ND8(3EV)<br>On |
|                            |                |
|                            |                |
|                            | OK             |

Live ND Shooting setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function.          |
|-----|--|
| On  | Pictures are taken with the slow shutter effect enabled. |

**3.** The display returns to the Live ND Shooting setting screen.

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the  ${\rm OK}$  button to display the setting menu.
  - After configuring options, press the **OK** button to return to Live ND Shooting setting screen.

| Live ND Shooting |          |
|------------------|----------|
| Live ND Shooting | On       |
| ND Number        | ND8(3EV) |
| LV Simulation    | On       |
|                  |          |
|                  |          |
|                  |          |
|                  |          |
|                  | OK       |

| ND Number     | Choose an ND filter type; the camera will convert it to an exposure value<br>and reduce exposure by that amount. Options are available in increments of<br>1 EV:<br>[ND2(1EV)], [ND4(2EV)], [ND8(3EV)], [ND16(4EV)], [ND32(5EV)],<br>[ND64(6EV)], [ND128(7EV)] |
|---------------|--|
| LV Simulation | Choose whether to preview the effect of the selected filter at the current shutter speed. [Off]: Use the standard shooting display. [On]: The effects of shutter speed are shown in the display.   |

#### Shooting

- **1.** Press the **MENU** button to close the Live ND Shooting setting screen and return to shooting screen.
  - An icon appears in the display.



- 2. Adjust shutter speed while previewing the results in the display.
  - Adjust shutter speed using the rear dial.
  - The slowest shutter speed available varies with the ND filter selected.

[ND2(1EV)]: 1/60 s [ND4(2EV)]: 1/30 s [ND8(3EV)]: 1/15 s [ND16(4EV)]: 1/8 s [ND32(5EV)]: 1/4 s [ND64(6EV)]: 1/2 s [ND128(7EV)]: 1 s



(1) (1)Shutter speed

- If **[On]** is selected for **[LV Simulation]**, the effects of changes to shutter speed can be previewed in the display.
- The camera requires a length of time equivalent to the selected shutter speed to produce **[LV Simulation]** results similar to the final image.
- When the time equivalent to the selected shutter speed passes, the "LV" part of the icon on the screen turns green.

When the icon is green, the display is similar to the final image.

- Changing exposure compensation or shutter speed resets the [LV Simulation] display.
- **3.** Release the shutter.
  - To end live ND filter photography, select [Off] in the [Live ND Shooting] display.

#### ( [Frame Rate] will be [Normal] during live ND photography.

- ⑦ The upper limit for [DISO] during live ND photography is ISO 800. This also applies when [Auto] is selected for [DISO].
- () The following cannot be used:
  - Flash photography, HDR, High Res Shot, multiple exposure, keystone compensation, bracketing, focus stacking, interval-timer photography, ficker scan, flickerless photography, fisheye correction, and live GND shooting.
- When Live ND Shooting is enabled, [Drive] is set to [♥□] (Silent Single). [♥☉12s] (Silent self-timer 12s), [♥☉2s] (Silent self-timer 2s) and [♥☉C] (Silent custom self-timer) can be set.
- ② Unlike physical ND filters, the live ND filter does not reduce the amount of light reaching the image sensor, and consequently very bright subjects may be overexposed.

### Shooting scenes with high contrast (Live GND Shooting)



The camera combines a series of exposures to create a single photo. This will increase the amount of detail visible in the highlights and shadows of high-contrast scenes, such as landscapes. Adjust the level of the effect while looking at the screen.

#### **Enabling Live GND Shooting**



**1.** Use  $\Delta \nabla$  to select [Live GND Shooting] and press the OK button.



Live GND Shooting setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without live GND shooting. |
|-----|---|
| On  | Pictures are taken with live GND shooting.    |

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**3.** The display returns to the Live GND Shooting setting screen.

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the  ${\rm OK}$  button to display the setting menu.
  - After configuring options, press the **OK** button to return to Live GND Shooting setting screen.

| Live GND Shooting  |           |
|--------------------|-----------|
| Live GND Shooting  | On        |
| GND Number         | GND8(3EV) |
| Filter Type        | Soft      |
| Filter Auto Rotate | On        |
|                    |           |
|                    | OK        |

| GND<br>Number         | Darkens (dims) a portion of the screen by the configured amount.<br>[GND2(1EV)], [GND4(2EV)], [GND8(3EV)]  |  |
|-----------------------|--|--|
|                       | Configures the range of the gradation for the boundaries between the areas to which the effect will be applied (darkened areas) and the areas to which it will not be applied (areas with unchanged brightness).<br>[Soft], [Medium], [Hard] |  |
| Filter Type           | <b>[Soft]</b> produces a wider gradation than <b>[Medium]</b> and can blur the boundaries between light and dark areas.  |  |
|                       | <b>[Hard]</b> produces a gradation that is narrower than <b>[Medium]</b> and makes the boundaries between light and dark areas clear.  |  |
|                       | Choose whether to rotate the angle of the gradation boundary according to the landscape/portrait orientation of the camera.  |  |
| Filter Auto<br>Rotate | <b>[On]</b> : The angle of the gradation boundary changes automatically when the orientation of the camera is changed.   |  |
|                       | <b>[Off]</b> : The angle of the gradation boundary does not change when the orientation of the camera is changed.  |  |

#### Shooting

- **1.** Press the **MENU** button to close the Live GND Shooting setting screen and return to shooting screen.
  - The selected GND number, filter type, and  $\bigcirc$  indicating the side to which the effect is applied appear in the display.
  - The black side of the  $\bigcirc$  icon is the side to which the effect is applied (the dimmed side).



(1) Boundary

- 2. Adjust the angle and position of the boundary while previewing the results in the display.
  - Adjust the boundary angle using the front and rear dials. The front dial adjusts the angle in increments of 15°, the rear dial in increments of 1°.
  - Adjust the boundary position using the arrow pad.
  - To reset the angle and position of the boundary, press and hold the **OK** button.
  - The slowest shutter speed available varies with the GND filter selected.

[GND2(1EV)]: 1/16000 s [GND4(2EV)]: 1/8000 s [GND8(3EV)]: 1/4000 s

- ⑦ [Image Aspect] (P.218) and [Digital Tele-converter] (P.259) settings are not applied to the live view in the screen for adjusting the boundary (However, they are applied to the saved image).
- When an option other than [4:3] is selected for [Image Aspect] or [On] is selected for [Digital Tele-converter], a frame will appear on the screen to indicate the area that will be shown in the shot image.
- **3.** To adjust aperture, shutter speed, and other shooting settings, press the **INFO** button.
  - The camera will return to the standard shooting display.
  - To return to the live GND shooting settings shown in Step 1, press the **INFO** button repeatedly.

- **4.** Release the shutter.
  - To end live GND photography, select [Off] in the [Live GND Shooting] display.
  - When shooting immediately after the shooting display appears or while zoomed in, images may not be captured with the optimal exposure. Preview the results in the display before shooting.
- ⑦ "Noise" in the form of lines may appear with a composition where a strong light source is taken in the picture.
- ⑦ The upper limit for [DISO] during live GND photography is ISO 3200. The upper limit is ISO 1600 when [Auto] is selected for [DISO].
- The following cannot be used:
  - Flash photography, HDR, High Res Shot, multiple exposure, keystone compensation, bracketing, focus stacking, interval-timer photography, C flicker scan, flickerless photography, fisheye correction, live ND shooting, subject detection
- (When Live GND Shooting is enabled, [Drive] is set to [♥□] (Silent Single). [♥☉12s] (Silent self-timer 12s), [♥☉2s] (Silent self-timer 2s) and [♥☉C] (Silent custom self-timer) can be set.
- ⑦ Pictures taken with [i-Enhance] or an art filter selected for picture mode are recorded in [Natural] mode.
- () The camera automatically selects [S-AF] for AF mode (P.100) in place of [C-AF] and [C-AF+TR], and [S-AF[M]] in place of [C-AF[M]] and [C-AF+TR[M]].

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① [OLV Mode] (P.362) is set to [Standard], and [Olivitation] (P.363) is set to [Off].

#### Increasing Depth of Field (Focus Stacking)

#### PASMB

Combine multiple images for a depth of field greater than can be obtained with a single shot. The camera takes a series of shots at focus distances both in front of and behind the current focus position and creates a single image from the areas that are in focus in each shot.

Choose this option if you want all areas of the subject in focus in photographs taken at short ranges or wide apertures (low f-numbers). The pictures are taken in silent mode using the electronic shutter.

- ① The composite image is recorded in JPEG format, regardless of the option selected for image quality.
- () The composite image is enlarged 7% horizontally and vertically.
- ⑦ Shooting will end if focus or zoom is adjusted after the shutter button has been pressed all the way down to start focus stacking photography.
- ② If focus stacking fails, the camera will record the selected number of photos without creating a composite image.
- This option is available only with lenses that support focus stacking. See our website for information on compatible lenses.
- (Pictures taken with an art filter selected for picture mode are recorded in [Natural] mode.

#### Menu

• MENU  $\Rightarrow$   $\mathbf{D}_2 \Rightarrow$  1. Computational Modes  $\Rightarrow$  Focus Stacking

#### **Enabling Focus Stacking**

**1.** Use  $\Delta \nabla$  to select **[Focus Stacking]** and press the **OK** button.



Focus Stacking setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function.   |
|-----|---|
| On  | Pictures are taken with increased depth of field. |

**3.** The display returns to the Focus Stacking setting screen.

#### **Configuring Focus Stacking**

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the  ${\rm OK}$  button to display the setting menu.
  - After configuring options, press the **OK** button to return to Focus Stacking setting screen.

| Focus Stacking         |      |
|------------------------|------|
| Focus Stacking         | On   |
| Set number of shots    | 8    |
| Set focus differential |      |
| Charge Time            | 0sec |
|                        |      |
|                        |      |
|                        |      |
| _ <b>⊅ ™</b>           | OK   |

| Set number of shots       | Choose the number of shots to be taken with varied focus positions.<br>[3] – [15]   |
|---------------------------|---|
| Set focus<br>differential | Choose the amount the camera varies focus with each shot.<br>[1] – [10]   |
| <b>\$</b> Charge Time     | Choose how long the camera waits for the flash to charge between<br>shots when using a flash unit not specifically designated for use with<br>the camera.<br>[0sec] / [0.1sec] / [0.2sec] / [0.5sec] / [1sec] / [2sec] / [4sec] /<br>[8sec] / [15sec] / [30sec] |

#### Shooting

- **1.** Press the **MENU** button to close the Focus Stacking setting screen and return to shooting screen.
  - 🖾 appears on the screen.
  - Picture mode will be set to [Natural].
  - A frame indicating the final crop will be shown in the display. Compose the shot with your subject in the frame.



- 2. Release the shutter.
  - The camera will automatically take the selected number of shots when the shutter button is pressed all the way down.

(I) When [Focus Stacking] is set to [On], [Flash Mode] in [Silent [♥] Settings] (P.198) becomes [Allow].

The flash sync speed is set to 1/100 s. It will be set to 1/50 s when [CISO] is 16000 or higher.

- The following cannot be used:
  - HDR, High Res Shot, multiple exposure, keystone compensation, bracketing, interval-timer photography, D flicker scan, fisheye correction, live ND shooting, and live GND shooting.
- We recommend using an optional remote control (P.457) to reduce blur caused by camera shake.
   In [Silent [♥] Settings] (P.198), you can choose how long the camera will wait to release the shutter after the shutter button is pressed all the way down.

### Taking HDR (High Dynamic Range) images (HDR)



The camera varies exposure over a series of shots, selects from each tone range with the highest level of detail, and combines them to create a single picture with a wide dynamic range. If the photo features a high-contrast subject, details that would otherwise be lost in shadows or highlights will be preserved.

() Use a tripod or take similar measures to fix the camera in place.

| Menu<br>• MENU → $\square_2$ → 1. Computational Modes → HDR |  |
|---|--|
|   |  |
| Off   | HDR is disabled.   |
| HDR1  | <ul> <li>Each time you take a photo, the camera will take a series of shots while varying exposure and combine them into a single picture. Choose [HDR1] for natural-looking results, [HDR2] for a more painterly effect.</li> <li>[DISO] is fixed at ISO 200.</li> <li>Shutter speeds can be as slow as 4 s. Shooting will continue for up to 15 s.</li> <li>Picture mode is fixed at [Natural] and color space at [sRGB].</li> <li>The HDR-processed images are recorded in JPEG format. Pictures taken with [RAW] for image quality are recorded in RAW + JPEG format.</li> </ul> |
| 3f 2.0EV  |  |
| 5f 2.0EV  | Each time you take a photo, the camera will vary exposure over a series of shots. The shots are not combined to create a single picture. The shots can however be combined   |
| 7f 2.0EV  | using HDR software on a computer or other devices. 3f 2.0EV ①Number of shots   |
| 3f 3.0EV  | 1 2 CEXposure range  |
| 5f 3.0EV  |  |

• "HDR" appears on the screen.



- **1.** Release the shutter.
  - Each time you press the shutter button, the camera will take the selected number of shots.
  - In [HDR1] and [HDR2] modes, the camera will automatically combine the shots into a single picture.
  - Exposure compensation is available in modes **P**, **A**, and **S**.
- () The image displayed in the monitor or viewfinder during shooting differs from the final HDR picture.
- ⑦ Noise may appear in the final picture when a slower shutter speed is selected in [HDR1] or [HDR2] mode.
- (When [HDR1] or [HDR2] is enabled, [Drive] is set to [<sup>♥</sup>□] (Silent Single). [<sup>♥</sup>⊙12s] (Silent self-timer 12s), [<sup>♥</sup>⊙2s] (Silent self-timer 2s) and [<sup>♥</sup>⊙C] (Silent custom self-timer) can be set.
- ⑦ The following cannot be used:
  - flash photography, bracketing, focus stacking, multiple exposure, interval-timer photography, keystone compensation, live ND shooting, fisheye correction, High Res Shot, and live GND shooting

## Recording multiple exposures in a single image (Multiple Exposure)



Take two shots and combine them into a single picture. Alternatively, you can take a shot and combine it with an existing picture stored on the memory card.

The combined image is recorded at current image quality settings. Only RAW pictures can be selected for multiple exposures that include an existing image.

If you record a multiple exposure with RAW selected for [ you can then select it for subsequent multiple exposures using [Overlay], allowing you to create multiple exposures combining three or more photographs.



### **Enabling Multiple Exposure**

**1.** Use  $\Delta \nabla$  to select **[Multiple Exposure]** and press the **OK** button.



Multiple Exposure setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function. |
|-----|---|
| On  | Create a multiple exposure from 2 pictures.     |

**3.** The display returns to the Multiple Exposure setting screen.

### **Configuring Multiple Exposure**

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
  - After configuring options, press the **OK** button to return to Multiple Exposure setting screen.

| Multiple Exposure |      |
|-------------------|------|
| Multiple Exposure | On   |
| Auto Gain         | Off  |
|                   |      |
|                   |      |
|                   |      |
|                   |      |
| क मनग             | 01/4 |
|                   | UK   |

| Auto Gain | <ul><li>[Off]: Do not adjust brightness the brightness of the pictures in the multiple exposure.</li><li>[On]: Halve the brightness of each picture in the multiple exposure.</li></ul>   |
|-----------|---|
| Overlay   | <ul> <li>[Off]: Create a multiple exposure from the next 2 pictures taken.</li> <li>[On]: Shoot a multiple exposure that includes an existing RAW image stored on the memory card.</li> <li>[Overlay] is only available when [On] is selected for [Multiple Exposure].</li> </ul> |

### Shooting

- **1.** Press the **MENU** button to close the Multiple Exposure setting screen and return to shooting screen.
  - The 🗇 icon will be displayed.



- 2. Release the shutter.
  - The first shot will be visible superimposed on the view through the lens as you compose the next shot.
  - The 🗇 icon turns green.
  - Normally, a multiple exposure will be created after the second shot is taken.
  - Pressing the  $\mathbf{\tilde{m}}$  button allows you to retake the first shot.
  - Press the **MENU** button or press the 🕨 button to end multiple exposure photography.
  - The  $\square$  icon clears from the display when multiple exposure photography ends.

#### When [Overlay] is set

When [On] is selected for [Overlay], a list of pictures is displayed.

- **1.** Highlight an image using the  $\Delta \nabla \triangleleft \triangleright$  buttons and press the **OK** button.
  - Only RAW images can be selected.
- **2.** Press the **MENU** button to exit the menus.
  - The 🗇 icon will be displayed.
  - The selected picture is overlaid on the screen.
- **3.** Release the shutter.
  - You can take additional pictures that will be overlaid on the previously-chosen photograph.
- (2) The camera will not enter sleep mode during multiple exposure photography.
- ⑦ Pictures taken with other cameras cannot be used for multiple exposures.
- ⑦ RAW pictures taken using High Res Shot cannot be used for multiple exposures.
- ⑦ The RAW pictures listed in the image-selection display when [On] is selected for [Overlay] are those processed using the settings in effect at the time the photograph was taken.
- () Exit multiple exposure mode before adjusting shooting settings. Some settings cannot be adjusted while multiple exposure mode is in effect.
- ⑦ Performing any of the following operations after the first shot is taken ends multiple exposure photography:
  - turning the camera off, pressing the **>** or **MENU** button, choosing a different shooting mode, or connecting cables of any type. Multiple exposure is also canceled when the battery is exhausted.

- ⑦ The image-selection display for [Overlay] shows the JPEG copies of photographs taken with RAW + JPEG selected for image quality.
- ② Live composite photography ([Live Comp]) is not available in mode B.
- (2) The following functions cannot be used during multiple exposure photography.
  - HDR, bracketing, focus stacking, interval-timer photography, keystone compensation, live ND shooting, fisheye correction, High Res Shot, and live GND shooting.
- - "Combining Pictures (Image Overlay)" (P.324)

# Digital Zoom ( Digital Tele-converter / Digital Tele-converter)

PASMB

This option takes a crop at the center of the frame the same dimensions as the size option currently selected for image quality and zooms it in to fill the display. This allows you to zoom in past the lens' maximum focal length, making it a good choice when you are unable to switch lenses or find it difficult to get any closer to your subject.

| Menu  |  |
|---|--|
| • MENU $\Rightarrow$ $\square_2 \Rightarrow$ 2. Other Shooting Functions $\Rightarrow$ $\square$ Digital Tele-converter             |  |
| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 1. Basic Settings/Image Quality $\Rightarrow$ $\mathfrak{A}$ Digital Tele-converter |  |

| Off | Pictures are taken without using this function.                  |
|-----|--|
| On  | Images are recorded enlarged (Still pictures: 2x, Movies: 1.4x). |

- When **[On]** is selected, an icon is displayed and, when live view is enabled, it is enlarged.
- The size of the AF targets (P.106) increases and their number decreases.



- JPEG images are recorded at the selected zoom ratio.
   In the case of RAW images, a frame shows the zoom crop. A frame showing the zoom crop is displayed on the image during playback.
- ① In still photography mode, the following cannot be used: multiple exposure, keystone compensation, and fish-eye correction.
- () In movie mode, this function cannot be used during high-speed movie recording.
- () This function cannot be used when outputting HDMI signals in [RAW] (P.285).
- You cannot zoom in on the display when [PDigital Tele-converter] is set to [On].
   "Previewing the subject (I)" (P.55), "Zoom frame AF/Zoom AF (Super Spot AF)" (P.111), "Manual Focus Assist (MF Assist)" (P.144)

# Shooting automatically with a fixed interval (Interval Shooting)

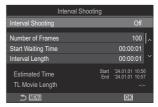


You can set the camera to shoot automatically with a set time lapse. The shot frames can also be recorded as a single movie.



### **Enabling Interval Shooting**

**1.** Use  $\Delta \nabla$  to select **[Interval Shooting]** and press the **OK** button.



Interval Shooting setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function. |
|-----|---|
| On  | Pictures are taken at specified intervals.      |

**3.** The display returns to the Interval Shooting setting screen.

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the  ${\rm OK}$  button to display the setting menu.
  - After configuring options, press the **OK** button to return to Interval Shooting setting screen.

| Interval S                        | Shooting     |                              |     |
|-----------------------------------|--------------|------------------------------|-----|
| Interval Shooting                 |              | 0                            | 'n  |
| Number of Frames                  |              | 10                           | 0 _ |
| Start Waiting Time                |              | 00:00:0                      |     |
| Interval Length                   |              | 00:00:0                      | 1 ~ |
| Estimated Time<br>TL Movie Length | Start<br>End | '24.01.01 10<br>'24.01.01 10 |     |
| ± ≣≣                              |              | OK                           |     |

| Number of           | Choose the number of frames shot.  |
|---------------------|--|
| Frames              | [002] – [9999]   |
| Start Waiting       | Choose how long the camera waits before starting interval timer photography and taking the first shot.   |
| Time                | [00:00:00] – [24:00:00]  |
| Interval Length     | Choose how long the camera waits between shots once shooting has begun.<br>[00:00:01] – [24:00:00]   |
| Interval Mode       | Choose whether to put priority on the interval time or the number of frames.<br><b>[Time Priority]/[Frames Priority]</b><br>If <b>[Time Priority]</b> is selected, the previous shooting may be still in progress even when it is time to shoot the next shot.<br>When the selected <b>[Interval Length]</b> is short or when using long exposure, the number of recorded frames may be smaller than the number selected for <b>[Number of Frames]</b> . |
| Exposure            | Choose whether to smooth the exposure settings for all frames. The change of exposure will be smooth in the time lapse movie.  |
| Smoothing           | [Off]/[On]   |
| Time Lapse<br>Movie | Choose whether to record a time-lapse movie.<br><b>[Off]</b> : The camera saves the individual shots but does not use them to create a time-lapse movie.<br><b>[On]</b> : The camera records the individual shots and also uses them to create a time-lapse movie.   |

|                | Choose the frame size ( <b>[Movie Resolution]</b> ) and frame rate ( <b>[Frame Rate]</b> ) for movies created using <b>[Time Lapse Movie]</b> . |
|----------------|---|
| Movie Settings | The options available for <b>[Movie Resolution]</b> are:<br>[4K], [FullHD], [HD]  |
|                | Choose the <b>[Frame Rate]</b> from the following options.<br>[30fps], [15fps], [10fps], [5fps]   |

② [Start Waiting Time], [Interval Length] and [Estimated Time] may change depending on shooting settings. Use these as guidelines only.

### Shooting

- **1.** Press the **MENU** button to close the Interval Shooting setting screen and return to shooting screen.
  - An 🕑 icon and the selected number of frames appear on the shooting screen.



- **2.** Release the shutter.
  - The specified number of frames will be shot automatically.
- The 의 icon will turn green and the number of shots remaining will be displayed.
- Time lapse shooting will be canceled if any of the following is operated:

Mode dial, **MENU** button, **b** button, lens release button, or connection to a computer using a USB cable.

- Turning the camera off ends interval-timer photography.
- ⑦ Frames are shot even if the image is not in focus after AF. If you wish to fix the focus position, shoot in MF.
- () [Image Review] (P.56) is fixed at 0.5 seconds.

- (2) If the time until shooting or the shooting interval is 1 minute 31 seconds or longer, the monitor will go dark and the camera will enter sleep mode if no operations are performed for 1 minute. The display will turn on automatically 10 seconds before shooting for the next interval begins. It can also be reactivated by pressing the shutter button at any time.
- ① The camera automatically selects [S-AF] for AF mode (P.100) in place of [C-AF] and [C-AF+TR], and [S-AFM] in place of [C-AFM] and [C-AF+TRM].
- ⑦When [云AF] is selected as the AF mode (P.100), focus to initiate shooting, then lock focus and start recording.
- ⑦ Touch operations are disabled during time lapse shooting.
- ⑦ Time-lapse shooting cannot be combined with HDR, bracketing, focus stacking, multiple exposure, live ND shooting, or live GND shooting.
- (2) The flash will not work if the flash charging time is longer than the interval between shots.
- When 1000 or a larger number is selected for [Number of Frames], [Time Lapse Movie] will be set to [Off].

#### When [High Res Shot] is set to [On ?] (tripod), [Time Lapse Movie] becomes [Off].

- () If any of the still pictures are not recorded correctly, the time lapse movie will not be generated.
- () If there is insufficient space on the card, the time lapse movie will not be recorded.
- ⑦ If there is not enough charge left on the battery, the shooting may end partway through. Use a sufficiently charged battery or connect the USB-AC adapter (P.26) or a mobile battery conforming to the USB-PD standard to the camera when shooting.

# Keystone correction and perspective control (Keystone Comp.)



Keystone distortion due to the influence of lens focal length and proximity to the subject can be corrected, or enhanced to exaggerate the effects of perspective. Keystone compensation can be previewed in the monitor during shooting. The corrected image is created from a smaller crop, slightly increasing the effective zoom ratio.

| Menu<br>• MENU → $\square_2$ → 2. Other Shooting Functions → Keystone Comp. |                                       |
|---|---------------------------------------|
| Off   | Keystone compensation is not applied. |

| On | Keystone compensation is applied. |
|----|-----------------------------------|

• When you select **[On]**, a keystone compensation icon is displayed and sliders appear on the monitor.



- 1. Frame the shot and adjust keystone compensation while viewing your subject in the display.
  - Rotate the front dial to make horizontal adjustments and the rear dial to make vertical adjustments.
  - Use  $\Delta \nabla \triangleleft \triangleright$  to position the crop. The direction in which the crop can be moved is shown by the  $\blacktriangle$  icon.
  - To cancel changes, press and hold the **OK** button.
- **2.** To adjust aperture, shutter speed, and other shooting settings, press the **INFO** button.
  - The camera will return to the standard shooting display.
  - The # icon is displayed while keystone compensation is enabled. The icon is displayed in green if adjustments have been made to keystone compensation settings.
  - To return to the keystone compensation display shown in Step 1, press the **INFO** button repeatedly.

#### **3.** Release the shutter.

- ⑦ Pictures may seem "grainy" depending on the amount of compensation performed. The amount of compensation also determines the amount the picture will be enlarged when cropped and whether the crop can be moved.
- Depending on the amount of compensation, you may be unable to reposition the crop.
- ⑦ Depending on the amount of compensation performed, the selected AF target may not be visible in the display. If the AF target is outside the frame, its direction is indicated by a <sup>1</sup>/<sub>4</sub>, <sup>4</sup>/<sub>4</sub>, or <sup>→</sup> icon in the display.
- (Pictures taken with [RAW] for image quality are recorded in RAW + JPEG format.
- The following cannot be used:
  - live composite photography, burst photography, bracketing, focus stacking, HDR, multiple exposure, live ND shooting, fisheye compensation, the digital teleconverter, movie recording, [C-AF], [C-AF], [C-AF+TR], and [C-AF+TR]] AF modes, art filters, the custom self-timer, High Res Shot, live GND shooting, and subject detection.
- ② Lens converters may not produce the desired results.
- ⑦ Be sure to provide [DImage Stabilizer] data for lenses that are not part of the Four Thirds or Micro Four Thirds family (P.204).

Where applicable, keystone compensation will be performed using the focal length supplied for **[DImage Stabilizer]** (P.204) or **[Lens Info Settings]** (P.394).

# **Correcting Fisheye Distortion (Fisheye Compensation)**



Correct distortion caused by fisheye lenses to give photos the appearance of pictures taken with a wide-angle lens. The amount of correction can be selected from three different levels. You can also opt simultaneously to correct distortion in photos taken under water.

• This option is only available with compatible fisheye lenses. As of January 2024, it could be used with the M.ZUIKO DIGITAL ED 8mm F1.8 Fisheye PRO.

• MENU  $\Rightarrow$   $\square_2 \Rightarrow$  2. Other Shooting Functions  $\Rightarrow$  Fisheye Compensation

Menu

#### **Enabling Fisheye Compensation**

**1.** Use  $\Delta \nabla$  to select [Fisheye Compensation] and press the OK button.



Fisheye Compensation setting screen

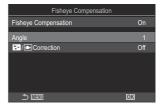
**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function.       |
|-----|---|
| On  | Pictures are taken with fisheye compensation applied. |

**3.** The display returns to the Fisheye Compensation setting screen.

### **Configuring Fisheye Compensation**

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
  - After configuring options, press the **OK** button to return to Fisheye Compensation setting screen.



| Angle           | When fisheye correction is performed, the picture is cropped to eliminate blacked-out areas. Choose from three different crops. [1] / [2] / [3]   |
|-----------------|---|
| /<br>Correction | Choose whether to correct distortion in photos taken under water in addition to the correction performed using <b>[Angle]</b> . <b>[Off]/[On]</b> |

### Shooting

- **1.** Press the **MENU** button to close the Fisheye Compensation setting screen and return to shooting screen.
  - When fisheye compensation is enabled, a 🔀 icon will be displayed together with the selected crop.



- 2. Release the shutter.
- ⑦ Pictures taken with [RAW] for image quality are recorded in RAW + JPEG format. Fisheye compensation is not applied to the RAW image.
- ⑦ Focus peaking is not available in the fisheye compensation display.

⑦AF target selection is restricted to [ · ]Single and [ ■]Small target modes.

⑦ The following cannot be used:

live composite photography, burst photography, bracketing, focus stacking, HDR, multiple exposure, live ND shooting, keystone compensation, the digital teleconverter, movie recording, [C-AF], [C-AF[ME], [C-AF+TR], and [C-AF+TRME] AF modes, art filter picture modes, the custom self-timer, High Res Shot, live GND shooting, and subject detection.

### Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)



Set items related to bulb/time/composite photography.

#### Menu • MENU $\Rightarrow$ $\square_2 \Rightarrow$ 2. Other Shooting Functions $\Rightarrow$ BULB/TIME/COMP Settings

- **1.** Configure options.
  - Press △∇ to select an item and press the OK button to display the setting menu.

| BULB/TIME/COMP Settings | My     |
|-------------------------|--------|
| Bulb/Time Focusing      | On     |
| Bulb/Time Timer         | 8min   |
| Live Composite Timer    |        |
| Bulb/Time Monitor       |        |
| Live Bulb               | Off    |
| Live Time               | 0.5sec |
| Composite Settings      | 1/2sec |
| ⇒ <b>III</b> I          | OK     |

| Bulb/Time<br>Focusing      | <ul> <li>Allows manual focusing in <b>B</b> (bulb) mode. You can take pictures using techniques such as putting the subject out of focus during exposure or focusing at the end of exposure.</li> <li>[Off]: Disables manual focusing during exposure.</li> <li>[On]: Enables manual focusing during exposure.</li> </ul> |
|----------------------------|---|
| Bulb/Time<br>Timer         | Specify the maximum length of bulb/time photography.<br>[30min] / [25min] / [20min] / [15min] / [8min] / [4min] / [2min] /<br>[1min]  |
| Live<br>Composite<br>Timer | Specify the maximum length of live composite photography.<br>[6h] / [5h] / [4h] / [3h] / [2h] / [1h] / [30min] / [25min] / [20min] /<br>[15min] / [8min] / [4min]   |
| Bulb/Time<br>Monitor       | Specify the display brightness in <b>B</b> (bulb) mode.<br>[-7] – [±0] – [+7]   |
| Live Bulb                  | Choose the display interval during bulb photography. The number of<br>update times is limited. Choose [Off] to disable the display.<br>[60sec] / [30sec] / [15sec] / [8sec] / [4sec] / [2sec] / [1sec] / [0.5sec] /<br>[Off]  |

| Live Time             | Choose the display interval during time photography. The number of update times is limited. Choose [Off] to disable the display.<br>[60sec] / [30sec] / [15sec] / [8sec] / [4sec] / [2sec] / [1sec] / [0.5sec] /<br>[Off]  |
|-----------------------|--|
| Composite<br>Settings | Set an exposure time to be the reference in composite photography.<br>[60sec] / [50sec] / [40sec] / [30sec] / [25sec] / [20sec] / [15sec] /<br>[13sec] / [10sec] / [8sec] / [6sec] / [5sec] / [4sec] / [3.2sec] / [2.5sec] /<br>[2sec] / [1.6sec] / [1.3sec] / [1sec] / [1/1.3sec] / [1/1.6sec] / [1/2sec] |

## Recording a series of shots with varied exposure (AE BKT)



Vary exposure over a series of shots. You choose the amount of variation and the number of shots. The camera takes a series of shots with different exposure settings. The camera will take pictures while the shutter button is pressed all the way down, ending when the selected number of shots has been taken.

| Menu<br>• MENU → $\square_2$ → 3. Bracketing → AE BKT |  |
|---|--|
|   |  |
| Off   | Pictures are taken without using this function.            |
| 3f 0.3EV  | 3 pictures are taken with the bracketing amount of 0.3 EV. |
| 3f 0.5EV  | 3 pictures are taken with the bracketing amount of 0.5 EV. |
| 3f 0.7EV  | 3 pictures are taken with the bracketing amount of 0.7 EV. |
| 3f 1.0EV  | 3 pictures are taken with the bracketing amount of 1.0 EV. |
| 5f 0.3EV  | 5 pictures are taken with the bracketing amount of 0.3 EV. |
| 5f 0.5EV  | 5 pictures are taken with the bracketing amount of 0.5 EV. |
| 5f 0.7EV  | 5 pictures are taken with the bracketing amount of 0.7 EV. |
| 5f 1.0EV  | 5 pictures are taken with the bracketing amount of 1.0 EV. |
| 7f 0.3EV  | 7 pictures are taken with the bracketing amount of 0.3 EV. |
| 7f 0.5EV  | 7 pictures are taken with the bracketing amount of 0.5 EV. |
| 7f 0.7EV  | 7 pictures are taken with the bracketing amount of 0.7 EV. |

"BKT" is displayed in green until all the shots in the bracketing sequence have been taken. The first shot is taken at current exposure settings, followed first by the shots with reduced exposure and then by the shots with increased exposure.

The settings used to alter exposure vary with the shooting mode.

| P (program AE)           | Both aperture and shutter speed  |
|--------------------------|--|
| A (aperture-priority AE) | Shutter speed  |
| S (shutter-priority AE)  | Aperture   |
| M (manual)               | <ul> <li>Shutter speed (when [ ISO] is not set to [Auto])</li> <li>ISO sensitivity (when [ ISO] is set to [Auto])</li> </ul> |

- If exposure compensation is enabled before shooting begins, the camera will vary exposure around the selected value.
- Changing the option selected for **[EV Step]** (P.155) changes the options available for bracketing amount.

(P.278). This setting cannot be combined with flash bracketing (P.274) or focus bracketing (P.278).

# Recording pictures with varied white balance (WB BKT)



The camera varies white balance to record a series of pictures. You choose the color axis and the bracketing amount.

The entire series is shot with a single press of the shutter button. The camera takes one picture when the shutter button is pressed all the way down and automatically processes it to record the pictures.

| Menu                                 |   |
|--------------------------------------|---|
| • MENU 🔿 🗖 2 🔿 3. Bracketing 🔿 WB BK | Т |

| A-B | Select the bracketing amount for the A-B (amber–blue) axis.<br>[Off] / [3f 2Step] / [3f 4Step] / [3f 6Step]    |
|-----|--|
| G-M | Select the bracketing amount for the G-M (green–magenta) axis.<br>[Off] / [3f 2Step] / [3f 4Step] / [3f 6Step] |

Three pictures are created for each color axis.

The first copy is recorded at current white balance settings, the second using a negative value for compensation, and the third using a positive value.

If white balance fine-tuning is enabled before shooting begins, the camera will vary white balance around the selected value.

(P.278). This setting cannot be combined with art filter bracketing (P.276) or focus bracketing (P.278).

# Recording pictures with varied flash level (FL BKT)

### PASMB

The camera varies flash level (output) over a series of shots. You choose the amount of variation. The camera takes a shot at a new flash level each time the shutter button is pressed all the way down. Bracketing ends after the required number of shots has been taken. In burst shooting modes, the camera will take pictures while the shutter button is pressed all the way down, ending when the required number of shots has been taken.

| $\underbrace{\text{Menu}}{\bullet \text{ MENU}} \Rightarrow \mathfrak{O}_2 \Rightarrow 3. \text{ Bracketing} \Rightarrow \text{FL BKT}$ |  |
|---|--|
| Off   | Pictures are taken without using this function.            |
| 3f 0.3EV  | 3 pictures are taken with the bracketing amount of 0.3 EV. |

| 3 | 3f 0.5EV | 3 pictures are taken with the bracketing amount of 0.5 EV. |
|---|----------|--|
| 3 | 3f 0.7EV | 3 pictures are taken with the bracketing amount of 0.7 EV. |
| 3 | 3f 1.0EV | 3 pictures are taken with the bracketing amount of 1.0 EV. |

"BKT" is displayed in green until all the shots in the bracketing sequence have been taken. The first shot is taken at current flash settings, followed first by the shot with reduced flash output and then by the shot with increased flash output.

If flash compensation is enabled before shooting begins, the camera will vary flash output around the selected value.

If you change the [EV Step] (P.155) setting, the bracketing amount of flash also changes.
 This setting cannot be combined with AE bracketing (P.271) or focus bracketing (P.278).

# Recording pictures with varied ISO sensitivity (ISO BKT)



The camera varies ISO sensitivity to record a series of pictures. You choose the amount of variation and the number of shots. The entire series is shot with a single press of the shutter button. The camera takes one picture when the shutter button is pressed all the way down and automatically processes it to record the required number of shots.

| • MENU $\rightarrow$ $\square_2 \rightarrow$ 3. Bracketing $\rightarrow$ ISO BKT |  |
|--|--|
| Off  | Pictures are taken without using this function.            |
| 3f 0.3EV   | 3 pictures are taken with the bracketing amount of 0.3 EV. |
| 3f 0.7EV   | 3 pictures are taken with the bracketing amount of 0.7 EV. |
| 3f 1.0EV   | 3 pictures are taken with the bracketing amount of 1.0 EV. |

The first copy is recorded at the current ISO sensitivity setting, the second with sensitivity reduced by the selected amount, and the third with ISO sensitivity increased by the selected amount. If shutter speed or aperture have been changed to modify exposure from the value selected by the camera, the camera will vary ISO sensitivity around the current exposure value.

- The maximum sensitivity selected for [DISO-A Upper/Default] does not apply.
- During silent photography, the flash sync speed is set to 1/50 s.
- ⑦ Changing the option selected for [ISO Step] (P.168) does not change the options available for bracketing amount.
- (P.278). This setting cannot be combined with art filter bracketing (P.276) or focus bracketing (P.278).

# Recording copies of one picture with different art filters applied (ART BKT)



Create multiple versions of each picture, each with a different art filter applied.

#### **Enabling art filter bracketing**



**1.** Highlight **[ART BKT]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| ART BKT         |     |
|-----------------|-----|
| ART BKT         | Off |
| ART BKT Setting |     |
|                 |     |
|                 |     |
|                 |     |
|                 |     |
|                 | OK  |

ART BKT setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function.       |
|-----|---|
| On  | Pictures are taken with multiple art filters applied. |

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**3.** The display returns to the ART BKT setting screen.

### Configuring art filter bracketing

- **1.** Select **[ART BKT Setting]** on the ART BKT setting screen and press the **OK** button.
- Select an art filter that you want to apply, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.

| ART BKT Setting       |          |
|-----------------------|----------|
| Pop Art I             |          |
| Pop Art               | <b>_</b> |
| ✓ Soft Focus          |          |
| ✓ Pale&Light Color Ⅰ  |          |
| ■ Pale&Light Color II |          |
| ✓ Light Tone          |          |
| ✓ Grainy Film I       |          |
|                       |          |

| ART BKT | Select the art filters that you want to apply. Picture modes such as [Vivid], |
|---------|---|
| Setting | [Natural] and [Muted] can also be selected.                                   |

- When there are a large number of art filters to be applied, it may take a long time to record the pictures after shooting.
- This setting cannot be combined with bracketing functions other than AE bracketing (P.271) and flash bracketing (P.274).

### Shooting

- 1. Press the **MENU** button to close the ART BKT setting screen and return to shooting screen.
- **2.** The camera takes one picture when the shutter button is pressed all the way down and automatically creates multiple copies, each with a different art filter applied.

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## Recording pictures with different focus positions (Focus BKT)



The camera varies focus over a series of pictures. You choose the amount and the number of shots. The entire series is shot with a single press of the shutter button. Each time the shutter button is pressed all the way down, the camera takes the selected number of shots, varying focus with each shot. The pictures are taken in silent mode using the electronic shutter.

#### **Enabling focus bracketing**

#### <u>Menu</u>

MENU → □<sub>2</sub> → 3. Bracketing → Focus BKT

**1.** Highlight [Focus BKT] using the  $\Delta \nabla$  buttons and press the **OK** button.

| Focus BKT              |      |
|------------------------|------|
| Focus BKT              | Off  |
| Set number of shots    | 99   |
| Set focus differential |      |
| Charge Time            | Osec |
|                        |      |
|                        |      |
|                        |      |
| 5 MEM                  | OK   |

Focus BKT setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

| Off | Pictures are taken without using this function. |
|-----|---|
| On  | Pictures are taken with varied focus positions. |

3. The display returns to the Focus BKT setting screen.

- **1.** Configure options.
  - Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
  - After configuring options, press the **OK** button to return to Focus BKT setting screen.

| Focus BKT              |      |
|------------------------|------|
| Focus BKT              | On   |
| Set number of shots    | 99   |
| Set focus differential |      |
| \$Charge Time          | 0sec |
|                        |      |
|                        |      |
| 5 IIII                 | OK   |

| Set number of         | Choose the number of shots to be taken with varied focus positions.   |
|-----------------------|---|
| shots                 | [003] – [999]   |
| Set focus             | Choose the amount the camera varies focus with each shot.   |
| differential          | [1] – [10]  |
| <b>\$</b> Charge Time | Choose how long the camera waits for the flash to charge between<br>shots when using a flash unit not specifically designated for use with<br>the camera.<br>[0sec] / [0.1sec] / [0.2sec] / [0.5sec] / [1sec] / [2sec] / [4sec] /<br>[8sec] / [15sec] / [30sec] |

### Shooting

- **1.** Press the **MENU** button to close the Focus BKT setting screen and return to shooting screen.
- 2. Press the shutter button the rest of the way down to shoot.
  - Shooting will continue until the selected number of shots has been taken.
  - To interrupt bracketing, press the shutter button all the way down a second time.
  - The camera varies the focus distance by the amount selected for Set focus differential with each shot. Shooting will end if the focus distance reaches infinity.
- ⑦ Shooting will end if focus or zoom is adjusted after the shutter button has been pressed all the way down to start bracketing.

OWhen [Focus BKT] is set to [On], [Flash Mode] in [Silent [♥] Settings] (P.198) becomes [Allow].

⑦ Focus bracketing is not available with Four Thirds system lenses.

⑦ Focus bracketing cannot be combined with other forms of bracketing.

The flash sync speed is set to 1/100 s. It will be set to 1/50 s when [DISO] is 16000 or higher.

# Functions that are only available in movie mode

# Sound Recording Options (Sound Recording Settings)



Adjust settings for recording sound during filming. You can also access settings for use when an external microphone or recorder is connected.

#### Menu

• **MENU**  $\Rightarrow$   $\mathfrak{A} \Rightarrow$  5. Sound Recording/Connection  $\Rightarrow$  Sound Recording Settings

| Recording<br>Volume | Adjust microphone sensitivity. Choose separate values for the built-in stereo microphone and external microphones.  |
|---------------------|---|
|                     | <b>[Built-In</b> $\Psi$ ]: Adjust the sensitivity of the camera's built-in stereo microphone.<br><b>[-10]</b> – <b>[0]</b> – <b>[+10]</b>                                 |
|                     | [MIC $ ensuremath{\P}$ ]: Adjust the sensitivity of external microphones connected to the microphone jack.<br>[-10] – [0] – [+10]   |
| ⊎Volume<br>Limiter  | The camera puts a limit on the volume of sounds recorded by the microphone.<br>Use this option to automatically reduce the level of sounds above a certain<br>volume.     |
|                     | <b>[Off]</b> : Does not put a limit on the volume of sounds recorded by the microphone.<br><b>[On]</b> : Puts a limit on the volume of sounds recorded by the microphone. |
| Wind Noise          | Reduce wind noise during audio recording.   |
| Reduction           | [Off]: Does not reduce wind noise during audio recording.<br>[Low] / [Standard] / [High]: Set the level of wind noise reduction.  |
|                     |   |

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| Recording<br>Rate     | Choose an audio recording format.<br>[96kHz/24bit]: High-quality audio.<br>[48kHz/16bit]: Standard-quality audio.   |
|-----------------------|---|
| ♥ Plug-in<br>Power    | In most circumstances, there is no need to change this setting. If your external microphone does not require plug-in power, and supplying power causes noise to be recorded, set this to <b>[Off]</b> .<br><b>[Off]</b> : Does not supply power from the camera to the external microphone.<br><b>[On]</b> : Supplies power from the camera to the external microphone.   |
| Camera Rec.<br>Volume | <ul> <li>This setting is only available when an external microphone is connected. When set to [Inoperative], the camera's sound recording settings ([Recording Volume], [Volume Limiter], [Wind Noise Reduction]) will be disabled.</li> <li>[Operative]: The camera's sound recording settings are enabled.</li> <li>[Inoperative]: The camera's sound recording settings are disabled. The sound input from the external microphone is recorded as is.</li> </ul> |

② Sound is not recorded:

- with high-speed or slow- or fast-motion movies or when ART 7 //ART 7 (diorama) is selected for picture mode.

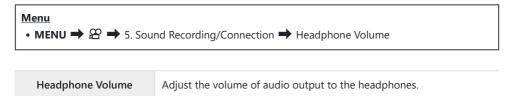
( Audio can only be played on devices that support the option selected for [Recording Rate].

&-Operation sounds of the lens and camera may be recorded in a movie.

To prevent it from recording, reduce the operation sounds by setting [**AF Mode**] (P.100) to **[S-AF]**, **[MF]**, or **[Pre I**], or by minimizing the button operations of the camera.

## Adjusting the headphone volume (Headphone Volume)

#### PASMB 🎛



### **Time Codes (Time Code Settings)**

### PASMB

Adjust time code settings. Time codes are used to synchronize picture and sound during editing and the like. Choose from the following options.

| Menu   |  |
|--|--|
| • MENU $\Rightarrow$ $\mathfrak{A} \Rightarrow$ 5. Sound Recording/Connection $\Rightarrow$ Time Code Settings |  |

| Time Code<br>Mode | Choose a time code recording option. Use time codes where precise timing is required. [Drop Frame]: Drop-frame time codes. The time code is adjusted to compensate for deviations from the recording time. [Non-DF]: Non-drop-frame time codes. The time code is not adjusted to compensate for deviations from the recording time. |
|-------------------|---|
| Count Up          | Choose how the time count is incremented.<br>[Rec Run]: The count is incremented only during recording.<br>[Free Run]: The count is incremented continuously, including when recording is not<br>in progress or the camera is off.  |
| Starting<br>Time  | Set a starting time for the time code.<br>[Reset]: Reset the time code to 00:00:00<br>[Manual Input]: Enter the time code manually.<br>[Current Time]: Set the time code to the current time, frame 00.   |

When setting [Starting Time] to [Current Time], be sure that the camera shows the correct time.
 "Setting the Camera Clock ( Settings)" (P.416)

() Time codes are not recorded on high-speed movies (P.214).

### HDMI Output (HDMI Output)



Adjust settings for output to HDMI devices. Options are available for controlling HDMI recorders from the camera or adding time codes for use during movie editing.

| Menu  |             |
|---|-------------|
| • MENU $\Rightarrow$ $\Omega \Rightarrow$ 5. Sound Recording/Connection $\Rightarrow$ | HDMI Output |

|                | <b>[Monitor]</b> : The HDMI device functions as an external monitor. The camera outputs both images and indicators to the display. Output settings can be adjusted using the <b>[HDMI Settings]</b> option (P.404).                |
|----------------|--|
| Output<br>Mode | <b>[Record]</b> : When live view is displayed in movie mode, the HDMI device functions as an external recorder. Only images are output to the device. Frame size and sound settings are adjusted using camera controls.            |
|                | <b>[RAW]</b> : When live view is displayed in movie mode, images are output to the HDMI device in RAW format. Images are not recorded on the card in the camera. Frame size and sound settings are adjusted using camera controls. |
| REC Bit        | The camera and the external device start and stop recording at the same time.<br>This option is only available with compatible devices.  |
|                | [Off]: Does not use this function.   |
|                | [On]: Controls the external device.  |
| Time<br>Code   | Output time codes to the external device. Time code settings can be adjusted using <b>[Time Code Settings]</b> (P.284).  |
|                | [Off]: Does not output time codes to the external device.  |
|                | <b>[On]</b> : Output time codes to the external device.  |

### About [RAW]

When **[RAW]** is selected, the raw images, to which shooting settings such as exposure compensation and white balance have not been applied, can be recorded.

Visit our website for information on HDMI devices compatible with [RAW].

When **[RAW]** is selected, "HDMI" will appear on the camera monitor while outputting signals to an HDMI device.

- ⑦ The recording format of images output from the camera when [RAW] is selected varies depending on the HDMI device. Visit our website for details.
- When [RAW] is selected and a compatible HDMI device is connected, [
   Picture Mode] will be set to [
   to [
   ime 2 OM-Log400].

() The following limitations apply when [RAW] is selected.

- [🍄 🔃]: Only [C4K] and [4K] can be selected. Slow- or fast-motion movies are not available.
- [PImage Stabilizer]: Only [M-IS Off] and [M-IS2] can be selected.
- [Digital Tele-converter] will be set to [Off].
- [PAF Mode] when using a Four Thirds system lens: Only [MF] and [PreMF] can be selected.

### Displaying a + mark in the center of the screen while recording movies (Center Marker)

### PASMB 🍄

During movie recording, you can display a "+" mark which enables you to understand where the center of the screen is.



1)+ mark

| Menu     |     |                                 |               |
|----------|-----|---------------------------------|---------------|
| • MENU 🔿 | ≌ ⇒ | 6. Shooting Assist $ ightarrow$ | Center Marker |

| Off | The + mark is not displayed.   |
|-----|--|
| On  | The + mark is displayed in the center of the screen during movie recording and when in movie recording ready mode. |

### Displaying zebra patterns over high luminance areas while recording movies (Zebra Pattern Settings)

During movie recording, you can display zebra patterns (stripes) over the areas where the luminance levels exceed the predetermined thresholds. You can specify two thresholds and zebra patterns with different angles will be displayed.





### **Displaying zebra patterns**

#### Menu

• MENU → 🍄 → 6. Shooting Assist → Zebra Pattern Settings

**1.** Use the  $\Delta \nabla$  buttons to select [**Zebra Pattern Settings**] and press the **OK** button.

| Zebra Pattern Settings |     |  |  |  |
|------------------------|-----|--|--|--|
| Zebra Pattern Settings | Off |  |  |  |
| 💹 Level 1              | 80  |  |  |  |
| 🕅 Level 2              | Off |  |  |  |
|                        |     |  |  |  |
|                        |     |  |  |  |
|                        |     |  |  |  |
|                        | OK  |  |  |  |
|                        | UK  |  |  |  |

Zebra Pattern Settings setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

Off Zebra patterns will not be displayed.

During movie recording, zebra patterns (stripes) will be displayed over the areas where the luminance levels exceed the predetermined thresholds.

- On A I pattern will be displayed where the luminance level exceeds [I Level 1].
   A I pattern will be displayed where the luminance level exceeds [I Level 2]. The I pattern will be displayed where they overlap.
- **3.** The display returns to the Zebra Pattern Settings setting screen.

#### **Configuring Zebra Pattern Settings**

#### **1.** Configure options.

- Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
- After configuring options, press the **OK** button to return to Zebra Pattern Settings setting screen.

| Zebra Pattern Settings |     |
|------------------------|-----|
| Zebra Pattern Settings | On  |
| 💹 Level 1              | 80  |
| 🕅 Level 2              | Off |
|                        |     |
|                        |     |
|                        |     |
| 5 III                  | OK  |

| 🕅 Level 1 | A 💹 pattern will be displayed where the luminance level exceeds the specified value.  |
|-----------|---|
| 🕅 Level 2 | A 🕅 pattern will be displayed where the luminance level exceeds the specified value.<br>Set this to <b>[Off]</b> if you want to display only one type of zebra pattern. |

# Displaying a red frame while recording movies (Red Frame during <a>O</a>REC)

#### PASMB 🍄

You can display a red outer frame on the screen to make it easier to see whether the camera is recording a movie.



#### Menu • MENU → 紹 → 6. Shooting Assist → Red Frame during ③REC

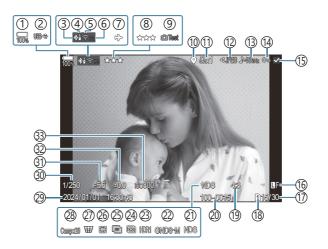
| Off | The camera will not display a red frame.                    |
|-----|---|
| On  | The camera will display a red frame during movie recording. |

## Playback

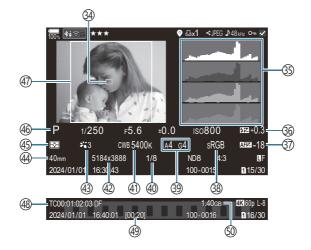
### Information display during playback

#### **Playback image information**

Basic



Overall



(1) Battery level (P.39) (2) USB PD (P.468) (3) Active **Bluetooth**<sup>®</sup> connection (P.428, P.455) (4) Remote control (P.455) (5) Wireless LAN connection (P.426, P.441) (6) Active connection to computer (Wi-Fi) (P.441) (7) Airplane Mode (P.424) (8) Rating (P.312) (9) Test Picture (P.336) (10) GPS data indicator (P.435) (11) Print order Number of prints (P.315) (12) Share order (P.310) (13) Sound Recording (P.281) (14) Protect (P.303) (15) Image selected (P.314) (16) Image Quality (P.211, P.212) (17) Frame number/total number of frames (18) Playback slot (P.388) (19) Aspect Ratio (P.218) (20) File numbering (P.392) (21) Live ND (P.243) (22) Live GND (P.246) (23) HDR image (P.253) (24) Focus Stacking (P.250) (25) Multiple Exposure (P.255)

1 Displayed only during movie playback.

(26) Fisheye Compensation (P.266) (27) Keystone Compensation (P.264) **28**Composite Photography Number of combined shots (P.71) (29) Date and Time (P.416) (30) Shutter Speed (P.58, P.63) (31) Aperture Value (P.58, P.61) (32) Exposure compensation (P.152) (33) ISO sensitivity (P.166) (34) AF target display (P.106) (35) Histogram (P.50) (36) Flash Intensity Control (P.184) (37) AF Focus Adjustment (P.132) (38) Color space (P.237) (39) White balance compensation (P.230, P.234) (40) Compression rate (P.211) (41) White balance (P.228) (42) Pixel count (P.211) (43) Picture Mode (P.220) (44) Focal length (45) Metering mode (P.159) (46) Shooting Mode (P.58) (47) Aspect border (P.218) (48) Time Code <sup>1</sup> (P.284) (49) Movie recording time <sup>1</sup> (P.556)

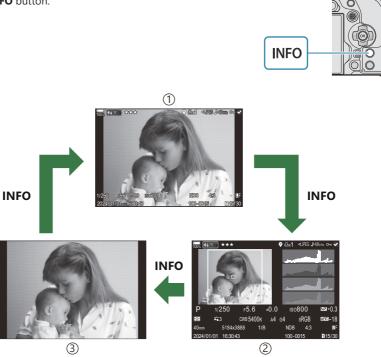
(50) Movie file size <sup>1</sup> (P.556)

#### Switching the information display

#### **Button**

• INFO button

You can switch the information displayed during playback by pressing the **INFO** button.



1)Basic

2 Overall

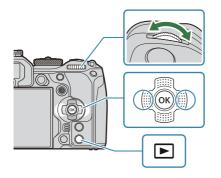
③Image only

 Choose the information to display. I "Choosing the information displayed during playback (Info Settings)" (P.331)

## Viewing photographs and movies

#### **Viewing photographs**

- **1.** Press the **b** button.
  - The most recent picture will be displayed.
  - Select the desired photograph or movie using the front dial or arrow pad.
  - Press the shutter button halfway to return to shooting mode.





Still image

| Rear dial (🐸)   | Zoom in (🐸)/Index (🐸)  |
|---|--|
| Front dial (🕿)  | Previous (🕿)/Next (🕿)<br>Operation also available during magnified playback.   |
| Arrow pad<br>$(\bigtriangleup \bigtriangledown \lhd \circlearrowright)/$<br>Multi selector<br>(0/O) | Single-frame playback: Next ( $\triangleright$ )/Previous ( $\triangleleft$ )/Playback volume ( $\triangle \nabla$ )<br>Playback zoom: Press () to display a zoom frame. Press the button again<br>to zoom in on the zoom frame. You can scroll the image by pressing<br>$\triangle \nabla \triangleleft \triangleright$ during playback zoom.<br>Index/calendar playback: Highlight image<br>• The operations performed using $\triangle \nabla \triangleleft \triangleright$ can also be performed by<br>pressing the multi selector up, down, left, or right. |
| INFO button   | View image info  |
| ☑ button  | Select picture (P.314)   |
| ★ Button  | Assign rating stars to pictures (P.313)  |

| O- button        | Protect picture (P.303)  |
|------------------|--|
| D button         | Delete picture (P.306)   |
| <b>OK</b> button | View the playback direct menu. (In calendar playback, press this button to exit to single-frame playback.) |

#### Switching cards while viewing photographs

You can also choose a card for playback using the  $\blacktriangleright$  button. Hold the  $\triangleright$  button and rotate the front or rear dial to switch cards while playback is in progress.

This does not change option selected for [Card Slot Settings] > [ESlot] (P.388).

#### Watching movies

- **1.** Press the **b** button.
  - The most recent picture will be displayed.



Movie



- 2. Select a movie and press the OK button.
  - The playback direct menu will be displayed.
- 3. Select [Play Movie] and press the OK button.
  - Movie playback begins.
  - Fast-forward and rewind using  $\triangleleft/\triangleright$ .
  - Press the **OK** button again to pause playback. While playback is paused, use  $\Delta$  to view the first frame and  $\nabla$  to view the last frame. Use  $\triangleleft \triangleright$  or the front dial to view previous or next frame.
  - Press the **MENU** button to end playback.

#### Playing back separated movies

Long movies are automatically recorded over multiple files when the file size exceeds 4 GB or the recording time exceeds 3 hours (P.78). The files can be played back as a single movie.

- **1.** Press the **b** button.
  - The most recent picture will be displayed.
- 2. Display a long movie you want to view and press the OK button.
  - The following options will be displayed.
     [Play from Beginning]: Plays back a split movie all the way through
     [Play Movie]: Plays back files separately
     [Delete entire P]: Deletes all parts of a split movie
     [Erase]: Deletes files separately
- ② We recommend using the latest version of OM Workspace to play back movies on a computer (P.461). Before launching the software for the first time, connect the camera to the computer.
- ⑦ Movies recorded with [Ŷ Video Codec] (P.217) set to [H.265] cannot be played back using OM Workspace.

# Finding Pictures Quickly (Index and Calendar Playback)

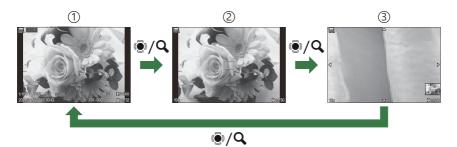
- In single-frame playback, rotate the rear dial to 🛃 for index playback. Rotate further for calendar playback.
- Turn the rear dial to  ${f Q}$  to return to single-frame playback.



ОК

- ①Single-frame playback
- 2 Index display
- $\textcircled{3} Calendar \ display$
- You can change the number of frames for index display. Settings)" (P.333)

### Zooming In (Playback Zoom)



1 Playback display

(2)Zoom frame

③ Playback zoom scroll display

When you press the multi selector or a button to which **[Q]** (magnify) has been assigned (P.334), a zoom frame will be displayed over the part of the picture that was in focus or the part where the subject was detected. Press the button again to zoom in on the zoom frame. Press the multi selector or  $\Delta \nabla \triangleleft \triangleright$  to scroll the image during playback zoom.

- You can change the settings of the zoom frame and image scroll. 🕼 "Choosing the information displayed during magnified playback ( 🖿 Q Info Settings)" (P.332)
- You can change the zoom ratio using the rear dial.
- Press the **OK** button to end Magnify playback.
- Pressing the **INFO** button while the zoom frame is displayed moves the zoom frame to the detected face. During close-up playback, the detected face will be enlarged.

#### **Playback Using Touch Controls**

Use touch controls to zoom pictures in and out, scroll pictures, or choose the picture displayed.

⑦ Do not tap the display with your fingernails or other sharp objects.⑦ Gloves or monitor covers may interfere with touch screen operation.

#### Full-frame playback

#### Displaying the previous or next image

• Slide your finger to the left to view the next image, and right to view the previous image.



#### Magnify

- Lightly tap the screen to display the slider and 🔼.
- Lightly tap the screen twice to magnify the image at the ratio specified in [ Default Setting] (P.329).
- Slide the bar up or down to zoom in or out.



- Slide your finger to scroll the display when the picture is zoomed in.
- Tap 📧 to display index playback. Tap 📧 for calendar playback.

#### Movie playback

• Tap **D** to begin playback.



- Tap the lower part of the screen to display the control bar which allows you to end playback and change the playback volume.
- Tap the center of the screen to pause playback. Tap again to resume playback.
- By sliding the bar at the bottom of the screen during playback pause, you can change the position from which the movie will be played when playback is resumed.
- Tap 🗌 to end playback.

#### Index/Calendar playback

#### Displaying the previous or next page

• Slide your finger up to view the next page, and down to view the previous page.



- The touch control menu will be displayed when you tap during index playback. Tap to switch the number of images displayed. It "Configuring the index display (Settings)" (P.333)
- Tap several times to return to single-frame playback.

#### Viewing images

• Tap an image to view it full frame.

#### **Other functions**

Lightly tap the screen during single-frame playback or tap during index playback to display the touch menu. You can then perform the desired operation by tapping the icons in the touch menu.

| V   | Select an image. You can select multiple images and delete them collectively.<br>Selecting Multiple Pictures (Share Order Selected, Rating Selected, On, Copy Select, Erase Selected)" (P.314) |
|-----|--|
| <   | Images you want to share with a smartphone can be set. <b>I</b> "Selecting Pictures for Sharing (Share Order)" (P.310)   |
| *   | Assign rating stars to an image. 🕼 "Rating Pictures (Rating)" (P.312)  |
| 0-п | Protects an image. I "Protecting Pictures (On)" (P.303)  |

## **Setting playback functions**

## **Rotating Pictures (Rotate)**

Choose whether to rotate photographs.

- **1.** Display an image you want to rotate and press the **OK** button.
  - The playback direct menu will be displayed.
- 2. Select [Rotate] and press the OK button.
- **3.** Press  $\Delta$  to rotate the image counterclockwise,  $\nabla$  to rotate it clockwise; the image rotates each time the button is pressed.
  - Press the **OK** button to save changes and exit.
  - Movies and protected images cannot be rotated.
- The camera can be configured to automatically rotate portrait-orientation pictures during playback.
   "Automatically Rotating Portrait-Orientation Pictures for Playback (1)" (P.330)
   [Rotate] is not available when [Off] is selected for [1].

#### Protecting Pictures (O-n)

Protect images from accidental deletion.

- **1.** Display the image you want to protect and press the **On** button.
  - Protected images are marked with a On ("protected") icon.
     Press the On button again to cancel protection.



- When an unprotected image is displayed, you can hold the **On** button and rotate the front or rear dial to protect all images displayed while the dial is rotated. Any previously-protected images displayed while the dial is rotated will be unaffected.
- When a protected image is displayed, you can hold the **On** button and rotate the front or rear dial to remove protection from all images displayed while the dial is rotated. Any previously-unprotected images displayed while the dial is rotated will be unaffected.
- The same operations can be performed during playback zoom or when a picture is selected in the index display.

You can also protect multiple selected images.
 Selected, Rating Selected, On, Copy Select, Erase Selected)" (P.314)
 Formatting the card erases all data including protected images.

### Copying an image (Copy)

When there are cards with available space in both slots 1 and 2, you can copy an image to the other card.

- **1.** Display an image you want to copy and press the **OK** button.
  - The playback direct menu will be displayed.
- 2. Select [Copy] and press the OK button.
- **3.** Choose whether to specify the destination folder and press the **OK** button.
  - If you select [Assign], choose a destination folder.
  - If a folder has already been specified, the name of the folder is displayed. To select a different folder, press ▷.
- **4.** Select **[Yes]** and press the **OK** button.
  - The picture will be copied to the other card.

& You can also copy all images on a card to the other card at a time. R [Copy All] (P.305)

### Copying all images on a card (Copy All)

All images can be copied between the cards inserted in the camera (card slot 1 and 2).

| $\underbrace{Menu}_{\bullet MENU} \bullet I. File \bullet Copy All$ |  |
|---|--|
|   |  |
| 1=>2  | All images are copied from the card in card slot 1 to the card in card slot 2. |
| 2=>1  | All images are copied from the card in card slot 2 to the card in card slot 1. |

Copying ends when the destination card is full.

() If the destination card is an SD card or an SDHC card, movie files exceeding 4 GB will not be copied.

#### **Deleting Pictures (Erase)**

**1.** Display an image you want to delete and press the  $\mathbf{tilde{t}}$  button.

2. Highlight [Yes] and press the OK button.



M

- The image will be deleted.
- You can erase images without the confirmation step by changing the button settings.
   "Disabling Deletion Confirmation (Quick Erase)" (P.308)
- You can choose whether deleting pictures recorded in RAW+JPEG image quality modes deletes both copies, only the JPEG copy, or only the RAW copy. I RAW+JPEG Deletion Options (RAW+JPEG Erase)" (P.309)

#### **Deleting All Pictures (Erase All)**

Delete all pictures. Protected pictures will not be deleted. You can also exclude the pictures which have been assigned rating stars (P.312) and delete all other pictures.

| • MENU $\Rightarrow$ $\blacktriangleright$ 1. File $\Rightarrow$ Erase All |
|--|
|  |

| Erase | Delete all pictures including those with rating stars assigned.              |
|-------|--|
| Save  | Keep the pictures with rating stars assigned, and delete all other pictures. |

- When there are cards in both slots 1 and 2, card slot selection appears. Select a card slot and press the **OK** button.
- ⑦ If you choose [Save] and execute [Erase All], it may take some time depending on the speed class of the card and the number of pictures on the card.

### **Disabling Deletion Confirmation (Quick Erase)**

If this option is enabled when the  $\overline{\mathbf{m}}$  button is pressed to delete photos or movies, the camera will not display a confirmation dialog but will instead delete the images immediately.

| Menu<br>• MENU → ▷ → 2. Operations → Quick Erase |  |  |
|--|--|--|
|  |  |  |
| Off  | A confirmation dialog is displayed when the $\overline{\mathbf{i}}$ button is pressed. |  |
| On   | No confirmation dialog will be displayed when the $\overline{0}$ button is pressed.    |  |

## RAW+JPEG Deletion Options (RAW+JPEG

#### Erase)

Choose operation performed when [RAW+JPEG] images are deleted.

| Menu<br>• MENU → ▷ → 2. Operations → RAW+JPEG Erase |   |
|---|---|
| JPEG  | Only the JPEG copy is deleted.            |
| RAW   | Only the RAW copy is deleted.             |
| RAW+JPEG  | Both the RAW and JPEG copies are deleted. |

So Both the RAW and JPEG copies are deleted when [Erase All] (P.307) or [Erase Selected] (P.314) is selected.

### **Selecting Pictures for Sharing (Share Order)**

You can select images you want to transfer to a smartphone in advance.

- 1. Display an image you want to transfer and press the **OK** button.
  - The playback direct menu will be displayed.
- **2.** Select [Share Order] and press the **OK** button. Then, press  $\triangle$  or  $\nabla$ .
  - The image is marked for sharing. A < icon and the file type will be displayed.
  - Up to 200 pictures on each slot can be marked for sharing at a time.
  - To cancel a share order, press  $\Delta$  or  $\nabla$ .

( A movie file whose file size exceeds 4GB cannot be marked for sharing.

& You can select images you want to transfer in advance and set a share order all at once.

"Selecting Multiple Pictures (Share Order Selected, Rating Selected, On, Copy Select, Erase Selected)" (P.314), "Transferring images to a smartphone" (P.431)

 $\wp$  You can also mark images for sharing by assigning [**\checkmark**] to a button in [ $\blacktriangleright$   $\bigcirc$  Function] (P.327).

Press the **[**] button when an unmarked image is displayed during single frame display/index display/playback zoom.

When you hold the [<] button and rotate the front or rear dial, all images displayed while the dial is rotated will be marked for sharing. Any previously-marked images displayed while the dial is rotated will be unaffected.

When you hold the [<] button and rotate the front or rear dial while a marked image is displayed, all images displayed while the dial is rotated will be unmarked. Any unmarked images displayed while the dial is rotated will be unaffected.

# Selecting RAW+JPEG Pictures for Sharing (RAW+JPEG **<**)

In the case of pictures recorded with **[RAW+JPEG]** for image quality, you can choose to share only the JPEG copies, only the RAW copies, or both the JPEG and RAW copies.



| JPEG     | Only the JPEG copies will be marked for sharing.     |
|----------|--|
| RAW      | Only the RAW copies will be marked for sharing.      |
| RAW+JPEG | Both RAW and JPEG copies will be marked for sharing. |

⑦ Changing the option selected for [RAW+JPEG <] does not affect pictures already marked for sharing.</p>

() Regardless of the option selected, removing share marking removes the marking from both copies.

### **Rating Pictures (Rating)**

Assign one to five rating stars to a picture.

This can be helpful when arranging and searching for pictures using OM Workspace or other utilities.

#### **Button**

• ★ Button

If you press the  $\bigstar$  button when the selected picture has no rating stars assigned, rating stars will be assigned to the picture. The number of stars will be the same as the previously set number.

If you press the  $\bigstar$  button when the selected picture has rating stars assigned, rating stars will be cleared.

You can change the number of stars by rotating the front or rear dial while holding the  $\bigstar$  button.

- () Rating stars can only be assigned to still images.
- ⑦ If the picture was recorded with [RAW+JPEG], the same rating will be applied to both the RAW and JPEG files.
- () Rating stars cannot be assigned to protected images.
- () Rating stars cannot be assigned to pictures that were taken with a different camera.

# Selecting the numbers of stars to be used for rating (Rating Settings)

You can select the numbers of stars that will be displayed as options for rating.



- Select the number of stars that you want to display as an option when rating pictures, and put a check (✓) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.
- O When there is no item with a check ( $\checkmark$ ) next to it, you cannot assign rating stars to pictures.
- ⑦ Changing the settings of [Rating Settings] does not affect the ratings of pictures that have already been assigned.

## Selecting Multiple Pictures (Share Order Selected, Rating Selected, Om, Copy Select, Erase Selected)

You can select multiple images for [Share Order Selected], [Rating Selected], [Om], [Copy Select] or [Erase Selected].

- **1.** Select pictures by pressing the  $\mathbf{V}$  button during playback.
  - The image will be selected and ✓ will be displayed.
     Lock is released when you press the button again.
  - You can select an image during single-frame playback and index playback.
- Press the OK button to display the menu and select [Share Order Selected], [Rating Selected], [On], [Copy Select] or [Erase Selected].



- When an unmarked image is displayed, you can hold the ☑ button and rotate the front or rear dial to select all images displayed while the dial is rotated. Any previously-marked images displayed while the dial is rotated will be unaffected.
- When a marked image is displayed, you can hold the ☑ button and rotate the front or rear dial to deselect all images displayed while the dial is rotated. Any previously-unmarked images displayed while the dial is rotated will be unaffected.

#### Print order (DPOF)

You can save digital "print orders" to the memory card listing the pictures to be printed and the number of copies of each print. You can then have the pictures printed at a print shop that supports DPOF. Print order information (DPOF) is recorded on a memory card.

#### **Configuring print orders**

Menu • MENU → ► → 1. File → ⊡ Press  $\triangleleft \triangleright$  to select a frame you want to add to the print order and then press  $\triangle \nabla$  to choose the number of prints. To set print reservations for several pictures, repeat this step. Press the **OK** button when all the desired pictures have been selected, and then select the date and time format. 凸 **[Nol**: The pictures are printed without the date and time. [Date]: The pictures are printed with the shooting date. [Time]: The pictures are printed with the shooting time. Select this when you want to set print orders to all of the pictures. Select the date and time format [No]: The pictures are printed without the date and time. -D-ALL [Date]: The pictures are printed with the shooting date. [Time]: The pictures are printed with the shooting time.

(?) When printing images, the setting cannot be changed between the images.

#### Setting print orders

| Set    | Print orders will be set. Settings will be reflected on the pictures saved on the currently selected card. |
|--------|--|
| Cancel | Print orders will not be set.  |

- ⑦ The camera cannot be used to modify print orders created with other devices. Creating a new print order deletes any existing print orders created with other devices.
- () Print orders cannot include RAW images or movies.

# Resetting all protection/share orders/print orders/ratings (Reset All Images)

You can reset all protection/share orders/print orders/ratings from pictures on a card in one slot at once.

| Menu                                    |  |
|---|--|
| • MENU ➡ 🖻 ➡ 1. File ➡ Reset All Images |  |

| Reset Print Orders | Resets all print orders. |
|--------------------|--------------------------|
| Reset Protect      | Resets all protection.   |
| Reset Share Order  | Resets all share orders. |
| Reset Ratings      | Resets all ratings.      |

• If memory cards are inserted in both slots, you will be prompted to choose a slot. Choose a slot and press the **OK** button. Then the confirmation screen will be displayed.

() When there are a lot of rated pictures, [Reset Ratings] will take a long time.

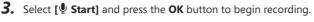
## Adding Audio to Pictures ( $\Psi$ )

You can record audio using the built-in stereo microphone or an optional external microphone and add it to pictures. The recorded audio provides a simple replacement for written notes about the pictures. Audio recordings can be up to 30 s long.

- 1. Display the image to which you want to add audio and press the **OK** button.
  - The playback direct menu will be displayed.

() Audio recording is not available with protected images.

**2.** Select  $[\Psi]$  and press the **OK** button.



• To exit without adding audio, select [No].





- **4.** Press the **OK** button to end recording.
  - Pictures with audio are indicated by ightarrow icons and indicators showing the recording rate.
  - To delete recorded audio, select [Erase] in Step 3.

Audio is recorded at the rate selected for movies. The rate can be selected using [Sound Recording Settings] (P.281).

#### **Audio Playback**

Playback begins automatically when a picture with audio is displayed. To adjust the volume:

- **1.** Display the picture whose audio you want to play back.
- **2.** Press  $\triangle$  or  $\nabla$  on the arrow pad.
  - $\Delta$  button: Raise volume.
  - $\nabla$  button: Lower volume.



#### **Retouching Pictures (Edit)**

Create retouched copies of pictures. In the case of RAW pictures, you can adjust the settings in effect at the time the picture was taken, such as white balance and picture mode (art filters included). With JPEG pictures, you can make simple edits such as cropping and resizing.

|  |              | Retouch pictures and save the resulting copies in JPEG format (P.320). The following options are available:  |
|--|--------------|--|
|  | RAW          | [Current]: Save the picture at the settings currently selected with the camera.  |
|  | Data<br>Edit | <b>[Custom1]/[Custom2]</b> : Adjust settings while previewing the results in the display. The settings are saved as <b>[Custom1] or [Custom2]</b> .                          |
|  |              | <b>[ART BKT]</b> : The camera creates multiple JPEG copies of each image, one for each art filter selected. Select one or more filters and apply them to one or more images. |
|  | JPEG<br>Edit | Retouch JPEG pictures and save the resulting copies in JPEG format (P.322).  |

#### **Retouching RAW Pictures (RAW Data Edit)**

[RAW Data Edit] can be used to adjust the following settings.

- Image quality
- Picture mode
- Color/saturation (Color Creator)
- Color (Partial Color)
- White balance
- Color temperature
- Exposure compensation

- Shadows
- Mid-tones
- Highlights
- Aspect
- High ISO noise reduction
- Color space
- Keystone compensation

[Color Space] is fixed at [sRGB] when an art filter is selected for picture mode.

RAW pictures cannot be retouched if:

- there is not enough space on the memory card or if the picture was created with a different camera

1. Display an image you want to edit and press the **OK** button.

- The playback direct menu will be displayed.
- **2.** Highlight **[RAW Data Edit]** using  $\Delta \nabla$  and press the **OK** button.

- The editing menu will be displayed.
- **3.** Highlight items using  $\Delta \nabla$ .
  - To apply current camera settings, highlight **[Current]** and press the **OK** button. Current settings will be applied.
    - () For exposure compensation, the current settings will not be applied.
    - Highlight **[Yes]** using  $\Delta \nabla$  and press the **OK** button to create a copy using the selected settings.
  - For **[Custom1]** or **[Custom2]**, highlight the desired option and press ▷, then edit settings as follows:
    - Retouch options will be displayed. Highlight items using ∆ ∇ and use ⊲▷ to choose settings. Repeat until all the desired settings have been chosen. Press the button to preview the results.
    - Press the **OK** button to confirm the settings. The processing will be applied to the image.

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- Highlight **[Yes]** using  $\Delta \nabla$  and press the **OK** button to create a copy using the selected settings.
- Highlighting **[ART BKT]** and pressing ▷ displays a list of art filters. Highlight art filters and press the **OK** button to select or deselect; selected filters are marked with a ✓. Press the **MENU** button to return to the previous display once all the desired filters have been selected.
  - Press the **OK** button to record the image after processing with the selected art filter.

MIN





- **4.** To create additional copies from the same original, highlight **[Reset]** and press the **OK** button. To exit without creating more copies, highlight **[No]** and press the **OK** button.
  - Selecting [Reset] displays editing options. Repeat the process from Step 3.

#### **Retouching JPEG Pictures (JPEG Edit)**

[JPEG Edit] can be used to adjust the following settings.

| Shadow Adj    | Brighten back-lit subjects.   |
|---------------|---|
| Red-eye Fix   | Reduce "red-eye" in pictures taken with a flash.  |
| #             | Crop pictures. Size the crop with the front or rear dial and position it with $\Delta \nabla \triangleleft \triangleright$ .  |
| Aspect        | Change the aspect ratio from the standard 4:3 to [3:2], [16:9], [1:1], or [3:4]. After choosing an aspect ratio, use $\Delta \nabla \triangleleft \triangleright$ to position the crop.   |
| Black & White | Create a black-and-white copy of the current picture.   |
| Sepia         | Create a sepia copy of the current picture.   |
| Saturation    | Adjust the vividness of colors. The results can be previewed in the display.  |
| ¥.            | Create a resized copy $1280 \times 960$ , $640 \times 480$ , or $320 \times 240$ pixels in size.<br>Pictures with an aspect ratio other than the standard 4:3 are resized to dimensions<br>as close as possible to the selected option. |

② Red-eye correction may not work depending on the image.

- ⑦ JPEG pictures cannot be retouched if:
  - the image is processed on a PC, if there is not enough space in the memory card, or if an image is recorded on another camera.
- @ Images cannot be made larger than the original size using [ $\blacksquare$ ].
- ⑦ Some images can not be resized.
- ⑦ [□□] and [Aspect] can only be used to edit images with an aspect ratio of 4:3 (standard).

- **Retouching Pictures (Edit)**

**1.** Display an image you want to edit and press the **OK** button.

- The playback direct menu will be displayed.
- **2.** Highlight [JPEG Edit] using  $\Delta \nabla$  and press the OK button.

- The editing menu will be displayed.
- **3.** Highlight an option using  $\Delta \nabla$  and press the **OK** button.
  - The effect can be previewed in the display. If multiple options are listed for the selected item, use  $\Delta 
    abla$  to choose the desired option.
  - When []] is selected, you can size the crop using the dials and position it using  $\Delta \nabla \triangleleft \triangleright$ .
  - When [Aspect] is selected, you can select an option using  $\Delta \nabla$ , and then position the crop using  $\Delta \nabla \triangleleft \triangleright$ .
- **4.** Highlight **[Yes]** using  $\Delta \nabla$  and press the **OK** button.
  - The new copy will be saved at the selected settings and the camera will return to the playback display.







#### **Combining Pictures (Image Overlay)**

Overlay existing RAW photos and to create a new picture. Up to 3 pictures can be included in the overlay.

The results can be modified by adjusting brightness (gain) separately for each picture.

- The overlay is saved in the format currently selected for image quality. Overlays created with [RAW] selected for image quality are saved in RAW format and in JPEG format using the image quality option selected for [4:2] (P.211).
- Overlays saved in RAW format can in turn be combined with other RAW images to create overlays containing 4 or more pictures.
  - 1. Display an image you want to edit and press the **OK** button.
    - The playback direct menu will be displayed.
  - **2.** Highlight **[Image Overlay]** using  $\Delta \nabla$  and press the **OK** button.
  - **3.** Select the number of images to be overlaid and press the **OK** button.
  - **4.** Highlight a RAW image to overlay using the  $\Delta \nabla \triangleleft \triangleright$  buttons and press the **OK** button.
    - The ✓ icon will appear on the selected image. To remove the ✓ icon, press the OK button again.
    - The overlaid image will be displayed if images of the number specified in Step 3 are selected.
  - **5.** Adjust the gain for each of the images in the overlay.
    - Highlight images using the ⊲▷ buttons and adjust gain using the Δ∇ buttons.
    - Gain can be adjusted in the range 0.1 2.0. Check the results in the monitor.
  - **6.** Press the **OK** button; a confirmation dialog will be displayed.
    - Highlight [Yes] and press the OK button.





### Trimming movies (Movie Trimming)

Cut selected footage from movies. Movies can be trimmed repeatedly to create files containing only footage you want to preserve.

&-This option is available only with movies recorded with the camera.

- **1.** Display a movie you want to edit and press the **OK** button.
  - The playback direct menu will be displayed.
- 2. Select [Movie Edit] and press the OK button.
- **3.** Use  $\Delta \nabla$  to select [Movie Trimming] and press the OK button.
  - You will be prompted to choose how you want to save the edited movie.
    [New File]: Save the trimmed movie in a new file.
    [Overwrite]: Overwrite the existing movie.
    [No]: Exit without trimming the movie.
  - If the movie is protected, you cannot select [Overwrite].
- **4.** Highlight an option and press the **OK** button.
  - You will be presented with an edit display.
- **5.** Trim the movie.
  - Use the  $\Delta$  button to skip to the first frame and the abla button to skip to the last frame.
  - Using the front or rear dial or the  $\triangleleft$  button, highlight the first frame of the footage you want to delete and press the **OK** button.
  - Using the front or rear dial or the ▷ button, highlight the last frame of the footage you want to delete and press the **OK** button.
- **6.** Highlight **[Yes]** and press the **OK** button.
  - The edited movie will be saved.
  - To select different footage, highlight [No] and press the OK button.
  - If you selected **[Overwrite]**, you will be prompted to choose whether to trim additional footage from the movie. To trim additional footage, highlight **[Continue]** and press the **OK** button.

### Creating Movie Stills (In-Movie Image Capture)

Save a still copy of a selected frame.

SThis option is available only with [4K] movies recorded with the camera.

- **1.** Display a movie you want to edit and press the **OK** button.
  - The playback direct menu will be displayed.
- 2. Select [Movie Edit] and press the OK button.
- **3.** Use  $\Delta \nabla$  to select **[In-Movie Image Capture]** and press the **OK** button.
- **4.** Use  $\triangleleft \triangleright$  to select a frame to be saved as a still image and press the **OK** button.
  - The camera will save a still copy of the selected frame.
  - Use the  $\Delta$  button to go back and the  $\nabla$  button to skip ahead. How much it goes back or skips ahead differ depending on the length of the movie.

## Changing the role of the <sup>●</sup> (<sup>✓</sup>) button during playback ( ► <sup>●</sup> Function)

Choose the role played by the O (M) button during playback.

| Menu<br>• MENU → $\triangleright$ → 2. Operations → $\triangleright$ • Function |  |  |
|---|--|--|
| ►<br>● Function   | [ <b>《</b> ]: Create or modify a "share order" by marking pictures for upload to a smartphone. |  |
|   | [☑]: Select multiple pictures.   |  |

# Changing the roles of the front and rear dials during playback ( Dial Function)

Choose the roles performed by the front and rear dials.

| Menu<br>• MENU → $\triangleright$ → 2. Operations → $\triangleright$ Dial Function |  |  |
|--|--|--|
| 💽 🭳 (Index/Magnify)  | Zoom in or out or switch to the index display during playback. |  |
| Prev/Next  | View the next or previous image during playback.               |  |

## Choosing the Playback Zoom Ratio ( Default Setting)

Choose the starting zoom ratio for playback zoom (close-up playback).

| $\underbrace{Menu}_{\bullet \text{ MENU}} \bullet \textcircled{Default Setting}$ |  |  |
|--|--|--|
| Recently   | Zoom in to the most recently selected zoom ratio.  |  |
| Equally Value  | Images are displayed at a zoom ratio of 1:1. The <b>1:1</b> icon appears in the monitor. |  |
| ×2 / ×3 / ×5 / ×7 / ×10 /<br>×14   | Choose the starting zoom ratio.  |  |

## Automatically Rotating Portrait-Orientation Pictures for Playback ( 1)

Choose whether pictures shot in portrait orientation are automatically rotated for display on the camera.

| Menu<br>• MENU → ▷ → 3. Displays → f |   |  |
|--------------------------------------|---|--|
|                                      |   |  |
| On                                   | Pictures are automatically rotated for display during playback. |  |
|                                      |   |  |

Off Pictures are not automatically rotated for display during playback.

# Choosing the information displayed during playback ( Image Info Settings)

Choose the information displayed during playback. Pressing the **INFO** button during playback will switch the display between the selected displays.



- **1.** Select the display type, and put a check ( $\checkmark$ ) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.

| Image Only | Only the image is shown.   |
|------------|--|
| Basic      | Minimum information is shown. Press ▷ to hide or show [▲] and [Highlight&Shadow].  |
| Overall    | Full information including the shooting conditions and histogram is shown (P.291). |

⑦ The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

## 

Choose the display when you magnify the picture by pressing the multi selector or a button to which  $[\mathbf{Q}]$  (magnify) has been assigned (P.334).



- 1 Playback display
- ②Zoom frame
- ③ Playback zoom scroll display

#### Menu • MENU → ► → 3. Displays → ► ♀ Info Settings

- **1.** Select the display type, and put a check ( $\checkmark$ ) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.

| Magnify Frame  | Displays the zoom frame.                                    |
|----------------|---|
| Magnify Scroll | Allows you to scroll the display during magnified playback. |

⑦ If you remove the checks from all options, you will not be able to magnify the image using the multi selector or a button to which [Q] (magnify) has been assigned.

### Configuring the index display (

You can change the number of frames to be displayed on the index display and whether to use the calendar display.



- **1.** Select the display type, and put a check ( $\checkmark$ ) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.

| ⊞4/⊞9/Ш25/Ш100 | Choose the number of frames to be displayed on the index display. |
|----------------|---|
| Calendar       | Pictures are displayed on a calendar.                             |

## Functions for Configuring Camera Controls

## Changing the roles of buttons (Button Settings)



Other roles can be assigned to buttons in place of their existing functions.

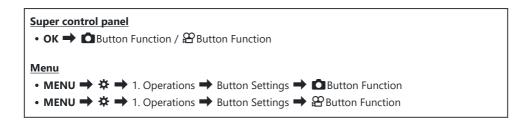
The functions assigned using **[\square Button Function]** take effect only during still photography. The functions assigned using **[\square Button Function]** take effect in  $\square$  (movie) mode.

#### **Customizable Controls**

| lcon  | Button  | Default role             |                         |
|-------|---|--------------------------|-------------------------|
|       |   | Ď                        | ŝ                       |
| Z     | ☑ button  | (exposure compensation   | n)                      |
| ۲     | • button  | (high res shot)          | • REC (movie recording) |
| ISO   | ISO button                                      | ISO sensitivity          |                         |
| AF-ON | AF-ON button                                    | AF-ON                    |                         |
| AEL   | AEL button                                      | AEL                      |                         |
|       | IOI button                                      | OI (monitor/viewfinder)  |                         |
| ¢     | Arrow pad                                       | Off <sup>1</sup>         |                         |
|       | Arrow pad $\triangleright$ (right) <sup>2</sup> | MF toggle (AF/MF toggle) |                         |

| lcon         | Button   | Default role                |         |
|--------------|--|-----------------------------|---------|
| Icon         | Button   | Ó                           | ĝ       |
| ▼            | Arrow pad $\nabla$ (down) <sup>2</sup>                   | <b>WB</b> (white balance)   |         |
| Ø            | One-touch white balance button                           | ✿ (one-touch white balance) | Peaking |
| Q            | Preview button   | Preview                     | Magnify |
| РВН<br>🗾     | button on the optional power battery holder              | (exposure compensatio       | n)      |
| PBH          | <b>ISO</b> button on the optional power battery holder   | ISO sensitivity             |         |
| PBH<br>AF-ON | <b>AF-ON</b> button on the optional power battery holder | AF-ON                       |         |
| L-Fn         | Fn button on the lens                                    | AF Stop                     |         |

- 1 No function is assigned to the arrow pad by default.
- <sup>2</sup> To use ▷ and ▽ on the arrow pad in their assigned roles, select [Direct Function] for [++) (arrow pad).



- **1.** Highlight a button to configure using the  $\Delta \nabla$  buttons and press the **OK** button.
- **2.** Highlight a function to assign using the  $\Delta \nabla \triangleleft \triangleright$  buttons and press the **OK** button.

#### **Available Roles**

"D only": This role is only available in the [D Button Function] menu.

b-The options available vary from button to button.

| Role   | Function   |  |
|--|--|--|
| REC     (movie recording)                                  | The control functions as a movie-record button. Press to start or stop recording.  |  |
| Preview (©)<br>( C only)                                   | Stop aperture down to the selected value. This lets you preview depth of field. Aperture stops down to the currently-selected value while the button is pressed. Preview options can be selected using [CLock] (P.360).  |  |
| Cone-touch white balance)                                  | Measure a value for one-touch white balance (P.231).<br>To measure white balance during still photography, frame a reference<br>object (a piece of white paper or the like) in the display, then press and<br>hold the control and press the shutter button. A list of one-touch white<br>balance options will be displayed, from which you can choose the location<br>to which the new value will be saved.<br>To measure white balance during movie recording, frame a reference<br>object (a piece of white paper or the like) in the display and press the<br>button. A list of one-touch white balance options will be displayed, from<br>which you can choose the location to which the new value will be saved. |  |
| <b>AF Area Select</b> ( <b>[·:·]</b> )<br>(AF Area Select) | <ul> <li>Configure AF Target Mode (P.106) and AF Target Point (P.105). Press the control to view the AF target selection display.</li> <li>Use the front or rear dial to choose AF target mode and the multi selector or arrow pad to position the AF target.</li> <li>Ý-You can choose the controls used for this operation. Y Target Selection ([-::-]Select Screen Settings)" (P.140)</li> </ul>  |  |
| [-::-]Home ([-::-]HP)<br>(AF home position)<br>(  only)    | rollej (P.150).  |  |

| Role                                      | Function  |  |
|---|---|--|
| MF (ME)<br>(AF/MF toggle)                 | Switch between AF and MF. Press once to select MF and again to return to the previous mode. The focus mode can also be selected by holding the button and rotating a dial.  |  |
| RAW . (RAW image<br>quality)<br>(  only)  | If you press the button when [  |  |
| Test Picture (CTest)<br>(CT only)         | Take a test shot. You can view the effects of selected settings in an actual photograph. If you keep the control pressed while pressing the shutter button, you will be able to view the results but the picture will not be saved to the memory card.  |  |
| Custom Mode C1–C4<br>(C1–C4)<br>(C1 only) | Recall settings for the selected custom mode. Press the control once to recall saved settings, a second time to restore the settings previously in effect (P.75). The control continues to perform this function when a custom mode is selected with the mode dial.   |  |
|   | Adjust exposure settings. Hold the control and rotate the front or rear dial.<br>Alternatively, you can press the button to activate settings and then rotate the dials. The adjustments available vary with the shooting mode:<br><b>[P]</b> : Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for program shift. |  |
| Exposure Comp. (🞽)                        | <b>[A]</b> : Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for aperture.<br><b>[S]</b> : Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for shutter speed.   |  |
|   | <ul> <li>[M]: Use the rear dial or △∇ for shutter speed. Use the front dial or the<br/>⊲▷ buttons for aperture.</li> <li>℘: For information on adjusting exposure settings when [Auto] is selected for [ISO] (P.166), see "Adjusting Exposure Compensation" (P.153).</li> </ul>   |  |
|   | <b>[B]</b> : Use rear dial or $\Delta \nabla$ to switch between bulb/time and live composite photography. Use the front dial or the $\triangleleft \triangleright$ buttons for aperture.  |  |

| Role   | Function  |
|--|---|
| Digital Tele-<br>converter (                                     | Turn the digital teleconverter on or off (P.259). Press once to zoom in and again to zoom out.<br>You can turn it on/off even when you are recording a movie. During movie recording, a frame indicating the area that will be magnified by the digital teleconverter is displayed.                 |
| Keystone Comp.<br>(₩)<br>(✿ only)                                | Press the control to view keystone compensation settings (P.264). After adjusting settings, press the control again to exit. To cancel keystone compensation, press and hold the control.   |
| Fisheye<br>Compensation (囲)<br>(                                 | Enable fisheye correction (P.266). Press once to enable fisheye correction.<br>Press again to disable. Hold the button and rotate the front or rear dial to<br>choose from <b>[Angle]</b> options 1, 2, and 3.  |
| Magnify ( <b>Q</b> )   | Press the control once to display the zoom frame and again to zoom in (P.111). Press the control a third time to exit zoom; to hide the zoom frame, press and hold the control. Use the multi selector, touch controls, or $\Delta \nabla \triangleleft \triangleright$ to position the zoom frame. |
| HDR<br>( Conly)  | Enable HDR (P.253). Press once to enable HDR. Press again to disable.<br>Hold the button and rotate the front or rear dial to adjust <b>[HDR]</b> settings, including HDR bracketing.   |
| ISO  | Adjust <b>[ISO]</b> settings (P.166). Hold the control and rotate the front or rear dial. Alternatively, you can press the button to activate settings and then rotate the dials. Highlight settings using the front or rear dial or $\triangleleft \triangleright$ .                               |
| <b>WB</b> ( <b>WB</b> )<br>(white balance)                       | Adjust <b>[WB]</b> settings (P.228). Hold the control and rotate the front or rear dial. Alternatively, you can press the button to activate settings and then rotate the dials. Highlight settings using the front or rear dial or $\triangleleft \triangleright$ .                                |
| <b>Multi Function</b><br>( <b>Multi Fn</b> )<br>(Multi-Function) | Configure the control for use as a multi-function button (P.344). Hold the control and rotate the front or rear dial to choose the function performed. The selected function can be performed by pressing the control.  |
| Peaking (Peak)   | Toggle focus peaking on or off (P.146). Press the control once to turn peaking on and again to turn it off. When peaking is on, peaking options (color, amount) can be displayed by pressing the <b>INFO</b> button.  |

| Role   | Function   |
|--|--|
| <b>Level Disp</b><br>( <sup>ຈັກ</sup> ຫຼ <sub>າມ</sub> າຫນັ <sup>ແນ້</sup> ) | Display the digital level gauge. The exposure bar display in the viewfinder functions as a level gauge. Press the control again to exit. This option takes effect when <b>[Style 1]</b> or <b>[Style 2]</b> is selected for <b>[EVF Style]</b> (P.368).  |
| IOI View Selection<br>(IOI)<br>(display selection)                           | Switch between viewfinder photography and live view. If <b>[Off]</b> is selected for <b>[EVF Auto Switch]</b> (P.402), the display will switch between the viewfinder and the monitor. Press and hold the control to display <b>[EVF Auto Switch]</b> options.   |
| LV Mode (S-OVF)<br>( C only)   | Switches [CLV Mode] (P.362) between [Standard] and [S-OVF].  |
| AF Limiter (AFLimit)<br>( C only)  | Enable the <b>[AF Limiter]</b> (P.129). Press once to enable <b>[AF Limiter]</b> . Press again to disable. Hold the button and rotate the front or rear dial to choose from three stored settings.   |
| Preset MF (Pre ME)   | Set <b>[AF Mode]</b> to <b>[Pre ME]</b> (P.100) Press the control once to enable preset<br>MF and again to restore the previous focus mode. Alternatively, you can<br>choose the <b>[AF Mode]</b> by holding the control and rotating a dial.  |
| Lens Info Settings<br>(EXII Lens)  | Recall previously-saved lens data (P.394). Recall saved data for the current lens after changing lenses or the like.   |
| IS Mode (IS)   | Toggle <b>[Image Stabilizer]</b> on or off (P.204). Press once to select <b>[Off]</b> and again to turn image stabilization on. Hold the control and rotate the front or rear dial to access <b>[Image Stabilizer]</b> options.  |
| Flicker Scan (Flicker<br>Scan)   | Adjust settings for <b>[Flicker Scan]</b> (P.157). Press the control to select <b>[On]</b> .<br>You can adjust shutter speed for best results while viewing banding in the<br>display. Press the control again to display shooting information and access<br>other settings. Press and hold the control to select <b>[Off]</b> for <b>[Flicker<br/>Scan]</b> . |
| Live ND Shooting<br>(ND)<br>(  only)   | Enable the live ND filter (P.243). Press once to enable <b>[Live ND Shooting]</b> .<br>Press again to disable. Hold the button and rotate the front or rear dial to<br>adjust <b>[ND Number]</b> settings.   |

| Role                                    | Function   |
|---|--|
| Live GND Shooting<br>(GND)<br>( C only) | Enable the live GND filter (P.246). Press once to enable [Live GND<br>Shooting] and adjust filter position and boundary settings. Press the<br>control again to display shooting information and access other settings.<br>Hold the button and rotate the front or rear dial to adjust [Filter Type]<br>and [GND Number]. Press and hold the control to select [Off] for [Live<br>GND Shooting]. |
| Off                                     | The control is not used.   |
| Flash Mode (\$)<br>( C only)            | Adjust flash settings (P.179). Press once to display flash options and again select the highlighted option and exit. Highlight settings using the front or rear dial or $\triangleleft \triangleright$ .<br>(2) This function can be assigned to the $\triangleright$ and $\nabla$ buttons only. You must  |
|   | first set [+++] to [Direct Function].  |
| <b>回</b> /ご<br>(sequential shooting/    | Choose a drive (sequential shooting/self-timer) mode (P.190). Press the button to display drive mode options and then choose a mode using the front or rear dial or the $\triangleleft \triangleright$ buttons.  |
| self-timer)<br>( 🖸 only)                | (2) This function can be assigned to the $\triangleright$ and $\nabla$ buttons only. You must first set [4] to [ <b>Direct Function</b> ].   |
| Lock                                    | Lock touch controls. Press and hold the button once to lock touch controls and again to unlock.  |
| (touch control lock)                    | <b>(2</b> ) This function can be assigned to the $\triangleright$ and $\nabla$ buttons only. You must first set [+++] to [ <b>Direct Function</b> ].   |
| Electronic Zoom<br>(W⇔T)                | Zoom power zoom lenses in or out. After pressing the control, use the arrow pad to zoom in or out. Use $\triangle$ or $\triangleright$ to zoom in and $\nabla$ or $\triangleleft$ to zoom out.<br>(2) This function can be assigned to the $\triangleright$ and $\nabla$ buttons only. You must  |
|   | first set [ <sup>4</sup> ↓] to [ <b>Direct Function</b> ].   |
| AF Stop (AF Stop)                       | Suspend autofocus. Focus locks and autofocus is suspended while the control is pressed. Applies only to the lens <b>LFn</b> button.  |

| Role                                   | Function   |
|--|--|
| Focus Ring Lock<br>(ඔම)                | Press the control once to disable, and again to enable, the lens<br>focus ring. This option is available when <b>[S-AFME]</b> , <b>[C-AFME]</b> , <b>[ME]</b> ,<br><b>[C-AF+TRME]</b> , <b>[PreME]</b> , or <b>[CAFME]</b> is selected for <b>[AF Mode]</b> .<br>The <b>ME</b> portion of the AF mode indicator is displayed gray while the ring<br>is disabled.<br>In the case of lenses equipped with an MF (manual focus) clutch, pressing<br>the button has no effect when the focus ring is in the MF position (closer<br>to the camera body).<br>Focus ring lock ends when you perform an operation such as turning the<br>camera off or attaching a different lens. |
| Night Vision (Night<br>LV)<br>(  only) | Pressing the button when <b>[Off]</b> is selected for <b>[Oight Vision]</b> (P.363) selects <b>[On]</b> . If <b>[On]</b> is selected, pressing the button selects <b>[Off]</b> .   |
| AEL (AE lock)                          | Press the button to lock exposure. Press again to release it.  |
| AF-ON                                  | The camera focuses with autofocus while the button is pressed (P.116). The camera stops focusing when the button is released.  |
| AE BKT<br>( Conly)                     | Pressing the button when <b>[Off]</b> is selected for <b>[AE BKT]</b> selects the setting selected under <b>[AE BKT]</b> . If an option other than <b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option for <b>[AE BKT]</b> , hold the button and rotate the front or rear dial.   |
| WB BKT<br>( Conly)                     | Pressing the button when <b>[Off]</b> is selected for <b>[WB BKT]</b> selects the setting selected under <b>[WB BKT]</b> . If an option other than <b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option for <b>[WB BKT]</b> , hold the button and rotate the front or rear dial.   |
| FL BKT<br>( Conly)                     | Pressing the button when <b>[Off]</b> is selected for <b>[FL BKT]</b> selects the setting selected under <b>[FL BKT]</b> . If an option other than <b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option for <b>[FL BKT]</b> , hold the button and rotate the front or rear dial.   |
| ISO BKT<br>( Conly)                    | Pressing the button when <b>[Off]</b> is selected for <b>[ISO BKT]</b> selects the setting selected under <b>[ISO BKT]</b> . If an option other than <b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option for <b>[ISO BKT]</b> , hold the button and rotate the front or rear dial.  |

| Role                             | Function   |
|----------------------------------|--|
| ART BKT<br>( C only)             | Toggle <b>[ART BKT] [On]</b> or <b>[Off]</b> . To choose an option for <b>[ART BKT]</b> , press and hold the button.   |
| Focus BKT<br>( D only)           | Toggle <b>[Focus BKT] [On]</b> or <b>[Off]</b> . To choose an option for <b>[Focus BKT]</b> , press and hold the button.   |
| Focus Stacking (🖽)<br>( 🖸 only)  | Toggle <b>[Focus Stacking] [On]</b> or <b>[Off]</b> . To choose an option for <b>[Focus Stacking]</b> , press and hold the button.   |
| High Res Shot ()<br>( 🗖 only)    | Pressing the button when <b>[Off]</b> is selected for <b>[High Res Shot]</b> selects the setting selected under <b>[High Res Shot]</b> . If an option other than <b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option for <b>[High Res Shot]</b> , hold the button and rotate the front or rear dial.  |
| Subject Selection<br>(図)         | The subject to focus on can be locked (fixed) using the button. If multiple subjects are detected, you can select and lock onto the subject to focus on by rotating the front or rear dial while pressing the button.<br>When eyes are detected while <b>[<math>\textcircled{O}</math> Human]</b> is selected, you can select which eye to lock onto as the subject to focus on by rotating the front or rear dial while pressing the button.<br>While locked, you can select another subject by moving the multi selector or pressing $\Delta \nabla \triangleleft D$ .<br>Pressing it again releases the lock.<br>This option can also be used during movie recording. |
| Subject Detection                | Pressing the button when <b>[Off]</b> is selected for <b>[Subject Detection]</b> selects<br>the setting selected under <b>[Subject Detection]</b> . If an option other than<br><b>[Off]</b> is selected, pressing the button selects <b>[Off]</b> . To choose an option<br>for <b>[Subject Detection]</b> , hold the button and rotate the front or rear dial.   |
| Direct Function<br>(☑/[:::]/⊭/▼) | <ul> <li>Assign roles to the buttons on the arrow pad (△▽ ⊲▷). The following roles can be assigned:</li> <li>⊲ button: [·:·] (AF-target selection)</li> <li>△ button: ☑ (exposure compensation)</li> <li>▷ button: MF toggle (AF/MF toggle)</li> <li>▽ button: WB (white balance)</li> <li>• The ▷ and ♡ buttons can be assigned other functions.</li> </ul>   |

| Role   | Function  |  |  |  |
|--|---|--|--|--|
| ∰ <b>Lock (Lock ∰</b> )<br>(≌ only)            | When recording a movie with the white balance set to <b>[WB Auto]</b> , pressing the button locks the white balance. Pressing it again releases the lock. |  |  |  |
| 留 View Assist<br>(BT.709)<br>(鉛 only)          | Toggle <b>[鉛 View Assist] [On]</b> or <b>[Off]</b> .<br>You can change the setting even when you are recording a movie.                                   |  |  |  |
| Zebra Pattern<br>Settings (ℤZebra)<br>(鉛 only) | Toggle <b>[Zebra Pattern Settings] [On]</b> or <b>[Off]</b> .<br>You can change the setting even when you are recording a movie.                          |  |  |  |

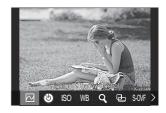
#### **Using multi-function options (Multi Function)**

Assign multiple roles to a single button.

To use the multi-function feature, you must first assign [Multi Function] to a camera control.
 "Customizable Controls" (P.334)

#### **Choosing a function**

**1.** Hold the button to which **[Multi Function]** is assigned and rotate the front or rear dial.



- Rotate the dial until the desired feature is highlighted. Release the button to select the highlighted feature.
- 2. Press the button to which [Multi Function] is assigned.
- **3.** Adjust settings.

The [Multi Function] button can be used for:

|     | Highlight&Shadow<br>Control | Change the setting using the front and rear dials. Press<br>the <b>INFO</b> button to change the area (highlight, midtone,<br>shadow) to be configured. |  |  |  |  |
|-----|-----------------------------|---|--|--|--|--|
| ٢   | Color Creator               | Use the front dial to adjust hue and the rear dial to adjust saturation.  |  |  |  |  |
| ISO | ISO                         | Change the setting using the front and rear dials   |  |  |  |  |
| WB  | WB                          | Change the setting using the front and rear dials.  |  |  |  |  |
| Q,  | Magnify                     | A zoom frame will be displayed.   |  |  |  |  |

| 9-    | Image Aspect | Change the setting using the front and rear dials.   |  |
|-------|--------------|--|--|
| S-OVF | LV Mode      | The setting switches between <b>[Standard]</b> and <b>[S-OVF]</b> with each press of the button. |  |
| Peak  | Peaking      | Turns on and off with each press of the button.  |  |

&-You can choose the options displayed. **W** [Multi Function Settings] (P.379)

& [Highlight&Shadow Control] can also be configured by following operations.

- During shooting, press the 🔀 (Exposure compensation) and then press the **INFO** button.
- After pressing **OK** on the shooting display, select **[Exposure Comp./**] on the super control panel (P.93) and press OK.

### Recording a movie by pressing the shutter button ( **Shutter Function**)

Configure the shutter button as a ④ (movie record) button. An optional remote control can then be connected via a cable and used to start or stop recording when the mode dial is rotated to equal (movie)(P.454).

| <u>Menu</u><br>• MENU | → 🌣 → 1. Operations → Button Settings → 🍄 Shutter Function                  |
|-----------------------|---|
| Off                   | The shutter button cannot be used to record movies.                         |
| REC                   | Press the shutter button all the way down to start or stop movie recording. |

(2) The (2) button cannot be used for movie recording when [(2) REC] is selected.

## Operating the menu with the $\overline{10}$ button (Menu operation by $\overline{10}$ )

#### PASMB

You can enable a setting to use the  $\mathbf{\tilde{m}}$  button instead of the **MENU** button to operate menus. Use this feature if you would like to use your right hand to use the **MENU** button during shooting in some situations.

| Men<br>• M | The second second sections $\Rightarrow$ Button Settings $\Rightarrow$ Menu operation by $\tilde{\mathbf{m}}$   |
|------------|---|
|            |   |
| Yes        | The $\mathbf{\tilde{m}}$ button operates as the <b>MENU</b> button on the shooting standby and menu screens, and as the $\mathbf{\tilde{m}}$ button on the playback screen. |

| No | The $\mathbf{\tilde{m}}$ button operates as the $\mathbf{\tilde{m}}$ button only. |
|----|---|
|----|---|

# Assigning Roles to the Front and Rear Dials ( $\bigcirc$ Dial Function / $\bigotimes$ Dial Function)

#### PASMB

Choose the roles performed by the front and rear dials.



- **1.** Highlight an option and press the **OK** button.
  - Choose a dial using the  $\triangleleft \triangleright$  buttons and use the  $\triangle \nabla$  buttons to choose a role.
  - Press the INFO button to move between lever positions.
  - Press the **OK** button when settings are complete.

When [ Fn Lever Function] / [ Fn Lever Function] is set to a setting other than [mode1], the functions assigned to lever 1 is enabled even if the lever is in position 2.

The functions that can be assigned in [Dial Function] are listed below.

| Role                         | Function                            | Shooting mode |   |   |   |                       |  |  |
|------------------------------|-------------------------------------|---------------|---|---|---|-----------------------|--|--|
|                              |                                     | Ρ             | A | S | М | В                     |  |  |
| Program Shift (Ps)           | Configure program shift (P.60).     | ~             | _ | _ | _ | _                     |  |  |
| Shutter Speed (Shutter)      | Choose the shutter speed.           | -             | — | ✓ | ✓ | <b>√</b> <sup>1</sup> |  |  |
| Aperture Value (FNo.)        | Adjust aperture.                    | -             | ✓ | _ | ✓ | $\checkmark$          |  |  |
| Exposure Comp. (🔀)           | Adjust exposure compensation.       | ~             | ~ | ✓ | ✓ | $\checkmark$          |  |  |
| Flash Exposure Comp.<br>(22) | Adjust flash exposure compensation. | ~             | ~ | ~ | ~ | ~                     |  |  |

| Role                    | Function   | Shooting mode |   |   |   |              |  |
|-------------------------|--|---------------|---|---|---|--------------|--|
| KOIE                    |  | Ρ             | А | S | М | В            |  |
| ISO                     | Adjust ISO sensitivity.  | ~             | ✓ | ✓ | ✓ | $\checkmark$ |  |
| WB (WB)                 | Adjust white balance.  | ~             | ~ | ~ | ✓ | $\checkmark$ |  |
| CWB Kelvin (CWB Kelvin) | Adjust the color temperature when<br>CWB (Custom WB) is selected for white<br>balance. | ~             | ~ | ~ | ~ | ~            |  |
| Off                     | None.  | ~             | ~ | ~ | ✓ | $\checkmark$ |  |

1 Switch between Bulb, Time, and Live Comp.

The functions that can be assigned in **[\mathcal{P}Dial Function]** are listed below.

| Role                            | Function   | 留 Mode<br>(Movie exposure mode) |              |              |              |
|---------------------------------|--|---------------------------------|--------------|--------------|--------------|
|                                 |  | Ρ                               | А            | s            | М            |
| Shutter Speed (Shutter)         | Choose the shutter speed.  | _                               | —            | ~            | ✓            |
| Aperture Value (FNo.)           | Adjust aperture.   | _                               | ~            | _            | ~            |
| Exposure Comp. (🔁)              | Adjust exposure compensation.  | ~                               | ~            | ~            | ~            |
| ISO                             | Adjust ISO sensitivity.  | _                               | _            | _            | ~            |
| WB (WB)                         | Adjust white balance.  | ~                               | ~            | ~            | ✓            |
| CWB Kelvin (CWB Kelvin)         | Adjust the color temperature when<br>CWB (Custom WB) is selected for white<br>balance. | ~                               | ~            | ~            | ~            |
| Sound Recording Level<br>(♥Vol) | Adjust the recording volume.   | ~                               | ~            | ~            | ~            |
| Headphone Volume (  Vol)        | Adjust the headphone volume.   | $\checkmark$                    | $\checkmark$ | $\checkmark$ | $\checkmark$ |

| Role | Role Function |   | 留Mode<br>(Movie exposure mode) |   |   |  |
|------|---------------|---|--------------------------------|---|---|--|
|      |               |   | А                              | s | М |  |
| Off  | None.         | ✓ | ✓                              | ✓ | ✓ |  |

### **Changing the Dial Direction (Dial Direction)**

#### PASMB

Choose the direction in which the dials are rotated to set exposure.

| <ul> <li>Menu</li> <li>MENU → ☆ → 1. Operations → Dial Settings → Dial Direction</li> </ul> |
|---|
|   |

| Exposure | Choose the direction the dials are rotated to set aperture and shutter speed in ${\bf A},{\bf S},{\bf M},$ and ${\bf B}$ modes. |
|----------|---|
| Ps       | Choose the direction the dials are rotated for program shift (mode <b>P</b> ).  |

## Changing the Functions of the Multi Selector (Multi Selector Settings)

#### PASMB

Choose the direction in which the dials are rotated to set exposure.

| Menu         • MENU → ☆ → 1. Operations → Multi Selector Settings |  |  |
|---|--|--|
| Center<br>Button  | Choose the operation performed by pressing the multi selector. The multi selector can then function as a button.<br><b>[Off]</b> : No function is assigned. Pressing the multi selector has no effect.<br><b>[[·::·]]</b> : Press the multi selector to adjust settings for AF target selection or AF target mode. The arrow pad or front and rear dials can be used according to the setting selected for <b>[[·::·]Select Screen Settings]</b> (P.140).<br><b>[[·::·]HP]</b> : The multi selector performs the function selected for <b>[Dautton</b> |  |
|   | <ul> <li>Function] &gt; [[::-]Home] (P.138).</li> <li>This option applies in still photography modes only.</li> </ul>  |  |
| © Direction<br>Key  | Choose the operation performed by tilting the multi selector. The multi selector is normally used to position the AF target, but this function can be disabled to prevent unintended operation. [Off]: No function is assigned. [[-::-]]: The multi selector can be used to position the AF-target.  |  |

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### **Customizing the Fn Lever (Fn Lever Settings)**

#### PASMB 🎛

#### Menu

• MENU → ☆ → 1. Operations → Fn Lever Settings

#### How to configure the Fn lever

| Fn Lever<br>Function     | <ul> <li>Choose the role played by the Fn lever in still photography modes.</li> <li>The Fn lever can be used to choose the roles of the front and rear dials or to recall focus settings. It can also be used to select movie mode.</li> <li>The Fn lever configured in this menu takes effect in the  (still photography) modes. The option selected using [ Fn Lever Function] takes effect in  (movie) mode.</li> </ul> |
|--------------------------|---|
| 留 Fn Lever<br>Function   | <ul> <li>Choose the role played by the Fn lever in movie mode.</li> <li>The Fn lever can be used to choose the roles of the front and rear dials or to recall focus settings.</li> <li>The role assigned to the Fn lever using this item takes effect in 𝔐 (movie) mode.</li> <li>In P, A, S, M, and B (still photography) modes, the Fn lever performs the role selected in [♣Fn Lever Function].</li> </ul>               |
| Fn Lever/<br>Power Lever | The <b>Fn</b> lever can be used as an on/off lever. Use this feature if you would like to use your right hand to turn the camera on or off during shooting.   |

### Configuring [ Fn Lever Function]

**1.** Select [ Fn Lever Function] on the [Fn Lever Settings] screen and press the OK button.



Fn Lever Function screen

| Off   | Changing the position of the <b>Fn</b> lever has no effect.   |
|-------|---|
| mode1 | Switch the functions of the front and rear dials by changing the position of the <b>Fn</b> lever. The functions for Positions 1 and 2 conform to the setting selected for <b>[ODial Function]</b> (P.347).  |
| mode2 | <ul> <li>Switch between two groups of settings previously selected for [AF Mode], [AF Target Mode], and [AF Target Point].</li> <li>Press the INFO button and put a check (✓) next to a setting that you want to recall with the Fn lever.</li> <li>To remove the check, press the OK button again.</li> <li>[AF Mode]: S-AF, C-AF, etc.</li> <li>[AF Target Mode]: [•]Single, [III]All, etc.</li> <li>[AF Target Point]: AF-target position</li> </ul> |
| mode3 | Toggle the shooting mode. You can switch to $ oldsymbol{\Omega}$ (movie) mode without rotating the mode dial.   |

⑦ When [mode3] is selected, [♀ Fn Lever Function] cannot be used (P.355).

() This function cannot be used in the following cases.

- [Fn Lever/Power Lever] (P.356) is set to [ON/OFF] or [OFF/ON].

### Configuring [ $egin{smallmatrix} Fn Lever Function]$

**1.** Select [**A Fn Lever Function**] on the [**Fn Lever Settings**] screen and press the **OK** button.



Fn Lever Function screen

| Off   | Changing the position of the <b>Fn</b> lever has no effect.   |
|-------|---|
| mode1 | Switch the functions of the front and rear dials by changing the position of the <b>Fn</b> lever. The functions for Positions 1 and 2 conform to the setting selected for [Particle Point |
| mode2 | Switch between two groups of settings previously selected for <b>[AF Mode]</b> , <b>[AF Target Mode]</b> , and <b>[AF Target Point]</b> .<br>Press the <b>INFO</b> button and put a check (✓) next to a setting that you want to recall with the <b>Fn</b> lever.<br>To remove the check, press the <b>OK</b> button again.   |
|       | [AF Mode]: S-AF, C-AF, etc.   |
|       | [AF Target Mode]: [   |
|       | [AF Target Point]: AF-target position   |

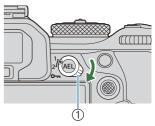
() This function cannot be used in the following cases.

- [mode3] is selected for [ Fn Lever Function] (P.352).
- [Fn Lever/Power Lever] (P.356) is set to [ON/OFF] or [OFF/ON].

## Using [mode2] of [ C Fn Lever Function] / [ P Fn Lever Function]

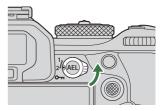
When **[mode2]** is selected for **[Th Lever Function]** / **[Th Lever Function]**, the camera will store separate focus settings for Positions 1 and 2.

1. Rotate the **Fn** lever to Position 1 and set the AF settings.









- The camera can store the settings that have been checked (✓) in:
  [AF Mode]: S-AF, C-AF, etc.
  [AF Target Mode]: [ ]Single, [IIII] All, etc.
  [AF Target Point]: AF-target position
- 2. Rotate the **Fn** lever to Position 2 and set the AF settings.

**3.** Rotate the lever to the desired position to recall the saved settings.

#### **Configuring [Fn Lever/Power Lever]**

**1.** Select [Fn Lever/Power Lever] on the [Fn Lever Settings] screen and press the OK button.



| Fn     | The lever functions according to the options selected for <b>[</b> Fn Lever Function] and <b>[</b> Fn Lever Function] (P.355). |
|--------|--|
| ON/OFF | The lever functions as an <b>ON/OFF</b> lever. Position 1 is on and Position 2 is off.   |
| OFF/ON | The lever functions as an <b>ON/OFF</b> lever. Position 1 is off and Position 2 is on.   |

The ON/OFF lever cannot be used to turn the camera off when [ON/OFF] or [OFF/ON] is selected. [ Fn Lever Function] and [ Fn Lever Function] are similarly unavailable.

# Power Zoom Lenses (Electronic Zoom Settings)

#### PASMB 🎛

Choose the speed at which power zoom lenses zoom in or out when the zoom ring is rotated. Adjust zoom speed if it is so quick that you find it hard to frame your subject.

| Menu         • MENU ⇒ ☆ ⇒ 1. Operations ⇒ Electronic Zoom Settings |  |  |
|--|--|--|
| Elec. Zoom Speed   | <ul> <li>Sets the zoom speed for  (still photography) mode.</li> <li>[Low]: Slow zoom. A good choice when precise adjustments are needed.</li> <li>[Normal]: Normal zoom speed.</li> <li>[High]: Fast zoom.</li> </ul> |  |
| 요 Elec. Zoom Speed   | <ul> <li>Sets the zoom speed for 🍄 (movie) mode.</li> <li>[Low]: Slow zoom. A good choice when precise adjustments are needed.</li> <li>[Normal]: Normal zoom speed.</li> <li>[High]: Fast zoom.</li> </ul>            |  |

O Although the same options are displayed for O (still photography) mode and O (movie) mode, the actual zoom speeds are different.

## Disabling the Disable disa

Lock the 🗢 button to disable operations.

#### PASMB 🎛



| Menu                                |  |
|-------------------------------------|--|
| • MENU → 🌣 → 1. Operations → 🗢 Lock |  |

| Off | Do not lock the 🗢 button.                         |
|-----|---|
| On  | Lock the $\bigcirc$ button to disable operations. |

### Choosing What Happens When the Shutter Button Is Pressed During Live View Zoom (LV Close Up Mode)

#### PASMB 🎛

Choose display options for use with focus zoom.



For information on live view zoom options, see the explanation on "Zoom frame AF/Zoom AF (Super Spot AF)" (P.111).

LV Close Up Mode Choose what happens if the shutter button is pressed halfway during focus zoom. [mode1]: Focus zoom ends. You can check the composition after focusing using focus zoom. [mode2]: Focus zoom remains in effect while the camera focuses. Compose the shot before focusing, then zoom in for precise focus and take a picture without ever ending zoom.

## Choosing the Behavior of the Control Used for Depth-of-Field Preview ( CLock)



Choose the behavior of the control used for depth-of-field preview.

#### Menu • MENU → ☆ → 2. Operations → ۞Lock

| () Lock | Choose the behavior of the control used for depth-of-field preview.                   |
|---------|---|
|         | [Off]: Aperture stops down while the control is pressed.                              |
|         | [On]: Aperture stops down when the control is pressed; to end depth-of-field preview, |
|         | press the control a second time.  |

#### **Button Hold Options (Press-and-hold Time)**

#### PASMB 🎛

Choose how long buttons must be pressed to perform resets and other similar functions for various features. For ease of use, button hold times can be set separately for different features.



Set the button hold time for each function.

[0.5sec] - [3.0sec]

The functions that allows you to set press-and-hold time are listed below:

- End LVQ
- Reset LV **Q** Frame
- Reset 🔀
- Reset 🚧
- Reset WB
- Reset
- Reset 🗠
- Reset 🕲
- Reset [•••]
- Call EVF Auto Switch

- End ₩
- Reset 🗑
- Switch 🖳 Lock
- End Flicker Scan
- Call WB BKT Setting
- Call ART BKT Setting
- Call Focus BKT Setting
- Call 🖾 Setting
- End GND
- Reset GND

# Functions for adjusting the live view display

#### Changing the look of the display (CLV Mode)



Increase dynamic range of the viewfinder display, increasing the amount of detail visible in highlights and shadows in a manner similar to optical viewfinders. The subject can be seen easily even in back-lit conditions. This setting takes effect on the viewfinder, the monitor and HDMI output.

| Menu<br>• MENU → ☆ → 3. Live View → C LV Mode |   |
|---|---|
| Standard                                      | The effects of exposure, color and other shooting settings are visible in the viewfinder display.               |
| S-OVF   | The effects of exposure, white balance, art filters and other shooting settings are not visible in the display. |

• "S-OVF" appears on the display when [S-OVF] is selected.

### Making the display easier to see in dark places (CNight Vision)



Increase brightness of the display to make it easier to see in dark places.

| Menu<br>• MENU → $\Rightarrow$ → 3. Live View → 🖾 Night Vision |   |  |
|--|---|--|
|  |   |  |
| Off  | Normal display.   |  |
| On   | Brightness is adjusted for ease of viewing. The brightness and colors of the preview differs from the final photograph. |  |

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• "Night LV" appears on the display when [On] is selected.

() [Frame Rate] will be set to [Normal] when [On] is selected.

#### Viewfinder Display Rate (Frame Rate)

#### PASMB 🔐

Choose the viewfinder display refresh rate.

| Menu                                   |  |
|--|--|
| • MENU → ☆ → 3. Live View → Frame Rate |  |

| Normal | The standard frame rate. This is the preferred choice in most situations.   |
|--------|---|
| High   | Smooth the motion of fast-moving subjects. Fast-moving subjects are easier to track. This setting reverts to <b>[Normal]</b> automatically if the internal temperature of the camera rises during shooting. |

#### Art Filter Preview (Art LV Mode)



You can preview the effects of art filters in the monitor or viewfinder during shooting. Some filters may cause subject movement to appear jerky, but this can be minimized so as to not influence photography.

| Menu<br>• MENU → ☆ → 3. Live View → Art LV Mode |   |
|---|---|
| mode1   | The effects of art filters can be previewed during shooting.  |
| mode2   | While the shutter button is pressed halfway, the camera gives priority to maintaining the display rate and reduces the effects of art filters on the preview display. Motion is smooth. |

#### **Reducing Flicker in Live View (Anti-Flicker LV)**

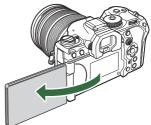
#### PASMB

Reduce flicker under fluorescent lighting and the like. Choose this option if flicker makes the display difficult to view.

| Menu<br>• MENU → ☆ → 3. Live View → Anti-Flicker LV |  |
|---|--|
| Auto  | The camera detects and reduces flicker.  |
| 50Hz  | Reduce flicker under workplace or outdoor lighting powered by alternating current with a frequency of 50 Hz. |
| 60Hz  | Reduce flicker under workplace or outdoor lighting powered by alternating current with a frequency of 60 Hz. |
| Off   | Flicker reduction off.   |

#### Selfie Assist (Selfie Assist)

Choose the display used when the monitor is reversed for selfportraits.



| Menu<br>• MENU → ☆ → 3. Live View → Selfie Assist |  |  |
|---|--|--|
| Off   | The display does not change when the monitor is reversed.  |  |
| On  | When reversed for self-portraits, the monitor shows a mirror image of the view through the lens. |  |

PASMB

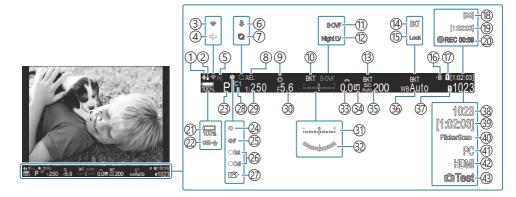
# Functions for configuring information display

### Selecting the display style of the viewfinder (EVF Style)

#### PASMB

| • MENU → ☆ → 4. Information → EVF Style |   |                                       |  |
|---|---|---------------------------------------|--|
|   |   |                                       |  |
| Style 1/                                | Similar to film camera viewfinder displays. | 007 P (250 r5.6 → 00 £2.00 wAddo 1000 |  |
| Style 3                                 | The same as the monitor display.            |                                       |  |

### Viewfinder display when shooting using the viewfinder (Style 1/Style 2)



- (1) Active **Bluetooth**<sup>®</sup> connection (P.428, P.455)
- (2) Remote control (P.455)
- (3) Wireless LAN connection (P.426, P.441)
- (4) Airplane Mode (P.424)
- (5) Active connection to computer (Wi-Fi) (P.441)
- (6) Flash (blinks: charging in progress, lights up: charging completed) (P.175)
- ⑦ Pro Capture active (P.200)
- (8) AE Lock (P.160)
- (9) Preview (P.360)
- (10) AE BKT (P.271)
- (1) LV Mode (P.362)
- 12 Night Vision (P.363)
- (13) ISO BKT (P.275)
- (14) WB BKT (P.273)
- (15) WB Auto Lock (P.233)
- (16) Card write indicator (P.29, P.34)
- 17 Save Slot (P.390)
- (18) Maximum number of continuous shots (P.192)
- (19) Available Recording Time (P.556)
- (2) Recording time (displayed during recording) (P.78)
- 21) Battery level (P.39)

- 22 USB PD (P.468)
- (23) Shooting Mode (P.58)
- 24) AF confirmation mark (P.51)
- 25 ♥ SH2 Aperture warning (P.190)
- 26 SET/CALL function (P.476)
- 27 Dust reduction (P.494)
- 28 Custom Mode (P.73)
- 29 Shutter Speed (P.58, P.63)
- 30 Aperture Value (P.58, P.61)
- (31) Exposure compensation (P.152)
- 32 Level Gauge <sup>1</sup> (P.376)
- 33 Exposure compensation value (P.152)
- 34) Highlight & Shadow Control (P.344)
- (35) ISO sensitivity (P.166)
- 36 White balance (P.228)
- 37 Save Settings (P.389)
- 38 Number of storable still pictures (P.553)
- (39) Available Recording Time (P.556)
- (40) Flicker Scan (P.157)
- (41) Active connection to computer (USB) <sup>2</sup> (P.462, P.464, P.465, P.466)
- (42) ♀ HDMI Output (P.285)
- (43) Test Picture (P.336)
- 1 Displayed while the shutter button is pressed halfway. 🎼 드 Level Gauge] (P.376)
- 2 Displayed only when connected to OM Capture and the computer is currently selected in the [**QJ^RAW/Control**] menu as the sole destination for new pictures (P.462).

#### Shooting Indicators (CInfo Settings / Parison Info Settings)

#### PASMB

Choose the indicators listed in the live view display.

You can display or hide shooting setting indicators. Use this option to choose the icons that appear in the display.

You can configure three sets of display settings for still photography mode and two sets for movie recording mode.



#### Configuring DInfo Settings

- Select an indicator you wish to display when the INFO button is pressed, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.

|               | Info Settings |  |
|---------------|---------------|--|
| Image Only    |               |  |
| Information 1 |               |  |
| Information 2 |               |  |
| Information 3 |               |  |
|               |               |  |
|               |               |  |
|               |               |  |
|               | M OK          |  |
| -             |               |  |

Info Settings setting screen

| Image Only              | No information will be displayed.   |
|-------------------------|---|
| Information 1           | Select an option using $\Delta \nabla$ and press the <b>OK</b> button to put a check ( $\checkmark$ ) next to it. |
| Information 2 To remove | To remove the check, press the <b>OK</b> button again.  |
| Information 3           | To set the details of an item to be displayed, press ▷. The following items can be set. [                         |

The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

#### 

- Select an indicator you wish to display when the INFO button is pressed, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again.

| <b>얊</b> In   | fo Settings |           |    |   |
|---------------|-------------|-----------|----|---|
| Image Only    |             |           |    |   |
| Information 1 |             |           |    |   |
| Information 2 |             |           |    |   |
|               |             |           |    |   |
|               |             |           |    |   |
|               |             |           |    |   |
|               |             |           |    |   |
|               |             | $\square$ | OK |   |
|               |             |           |    | _ |

PInfo Settings setting screen

| Image Only                        | No information will be displayed.  |
|-----------------------------------|--|
| Information 1<br>Information<br>2 | <ul> <li>Select an option using △ ▽ and press the OK button to put a check (✓) next to it.</li> <li>To remove the check, press the OK button again.</li> <li>To set the details of an item to be displayed, press ▷. The following items can be set.</li> <li>[Ima] / [Level Gauge] / [All Battery Information] / [Image Stabilizer] / [Picture Mode] / [WB] / [AF Mode] / [Subject Detection] / [Sound Recording Level Meter] / [Headphone Volume] / [Time Code] / [Silent ♥ Operation] / [Grid]</li> </ul> |

The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

#### **Choosing a Display**

Press the **INFO** button during shooting to cycle through the selected displays. **I** "Switching the information display" (P.49)

# Configuring the display for when the shutter button is pressed halfway (Info by half-pressing \_\_\_\_)

#### PASMB 🎛

You can configure the display for when the shutter button is pressed halfway.



Only the following exposure-related items are displayed while the shutter button is pressed halfway.

- Shutter speed
- On1 Aperture
  - Reset Exposure Compensation
  - Difference from optimal exposure
  - ISO sensitivity

On2 The display does not change even when the shutter button is pressed halfway.

#### 



Choose the information that can be viewed by pressing the **INFO** button in the viewfinder display. Just as you can with the monitor, you can display a histogram or level gauge in the viewfinder by pressing the **INFO** button. This item is used to choose the types of display available. This option takes effect when **[Style 1**] or **[Style 2**] is selected for **[EVF Style]** (P.368) during still photography. The option selected for **[Context in the selected in the selected** 

#### Menu

• MENU → ☆ → 4. Information → 🗔 🗖 Info Settings

- Select an indicator you wish to display when the INFO button is pressed, and put a check (✓) next to it.
  - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
     To remove the check, press the OK button again

To remove the check, press the  $\ensuremath{\text{OK}}$  button again.

| 🔲 🗖 Info Settings     |  |
|-----------------------|--|
| Image Only            |  |
| ✓ Information 1       |  |
| ✓ Information 2       |  |
| Information 3         |  |
|                       |  |
|                       |  |
|                       |  |
|                       |  |
| Info Settings setting |  |
| screen                |  |

| Image Only       | No information will be displayed.   |  |
|------------------|---|--|
| Information 1    | Select an option using $\Delta \nabla$ and press the <b>OK</b> button to put a check ( $\checkmark$ )   |  |
|                  | To remove the check, press the <b>OK</b> button again.<br>To set the details of an item to be displayed, press $\triangleright$ . The following items   |  |
| Information<br>3 | <ul> <li>[Image]: A histogram superimposed on the display in the viewfinder.</li> <li>[Highlight&amp;Shadow]: Tints applied to over- and under-exposed areas.</li> <li>[Level Gauge]: The level gauge.</li> <li>[All Battery Information]: Information on all batteries.</li> </ul> |  |

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The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

#### 

#### PASMB 🎛

Choose whether the level gauge can be displayed in the viewfinder by pressing the shutter button halfway when **[Style 1]** or **[Style 2]** is selected for **[EVF Style]** (P.368).



Display when shutter button is pressed halfway

| Menu                          |                 |
|-------------------------------|-----------------|
| • MENU 🔿 🌣 🄿 4. Information 🔿 | 🕨 🚍 Level Gauge |

| On  | The level gauge is displayed in the viewfinder while the shutter button is pressed halfway. The level gauge appears in place of the exposure bar. |
|-----|---|
| Off | The level gauge is not displayed.   |

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### Framing Guide Options ( Grid Settings / Grid Settings)

PASMB



| Display Color  | Choose the displayed color.<br>[Preset 1]: The settings of [Color of Preset 1] are used.<br>[Preset 2]: The settings of [Color of Preset 2] are used.   |
|--|---|
| Exclusive for<br>윤<br>([윤 <b>Grid</b><br>Settings] only) | <ul> <li>Choose whether to use a movie-exclusive setting when displaying guides in a (movie) mode.</li> <li>[Off]: Use the same setting as when in still photography mode.</li> <li>[On]: Use the settings dedicated to movie recording mode.</li> </ul>  |
| Displayed Grid   | <ul> <li>Select the type of guides displayed. Choose from:</li> <li>[Off] / [⊞] / [⊞] / [⊞] / [⊞] / [⊡] / [⊡] / [□] ([□Grid Settings] only)</li> <li>When [□] is selected, the guides are adjusted for a 16:9 movie frame when movies are shot in still photography mode. Depending on the option selected for [□ ≪:], the guides may be displayed with an aspect ratio of 17:9.</li> </ul> |
| Color of Preset<br>1                                     | <ul><li>[R]: Increase the number to emphasize the red tint.</li><li>[G]: Increase the number to emphasize the green tint.</li></ul>   |
| Color of Preset<br>2                                     | <b>[B]</b> : Increase the number to emphasize the blue tint.<br><b>[α]</b> : Increase the number to make the color of the guides deeper.  |

The guides configured here are not displayed during Focus Stacking (P.250) or the filter adjustment screen for Live GND Shooting (P.247).

& The settings made here are also used when [...... Style 3] is selected for [EVF Style].

#### Viewfinder Framing Grid Options ( 📟 🗖 Grid Settings)



Choose whether to display a framing grid in the viewfinder. You can also choose guide color and type. This option takes effect when **[Style 1]** or **[Style 2]** is selected for **[EVF Style]** during still photography. The option selected for **[MInfo Settings**] (P.372) takes effect in movie recording mode.

| Menu                                  |               |
|---------------------------------------|---------------|
| • MENU → 🌣 → 5. Grid/Other Displays → | Grid Settings |

| Exclusive for        | Choose whether to use a viewfinder-exclusive setting when displaying guides on<br>the viewfinder.<br>[Off]: Use the same setting as when using the monitor.<br>[On]: Use the setting dedicated to the viewfinder.   |
|----------------------|---|
| Display Color        | Choose the displayed color.<br>[Preset 1]: The settings of [Color of Preset 1] are used.<br>[Preset 2]: The settings of [Color of Preset 2] are used.   |
| Displayed<br>Grid    | <ul> <li>Select the type of guides displayed. Choose from:</li> <li>[Off] / [⊞] / [⊞] / [⊞] / [⊡] / [⊠] / [□]</li> <li>When [□] is selected, the guides are adjusted for a 16:9 movie frame when movies are shot in still photography mode. Depending on the option selected for [𝔅 ♣:], the guides may be displayed with an aspect ratio of 17:9.</li> </ul> |
| Color of<br>Preset 1 | <b>[R]</b> : Increase the number to emphasize the red tint.<br><b>[G]</b> : Increase the number to emphasize the green tint.  |
| Color of<br>Preset 2 | <ul><li>[B]: Increase the number to emphasize the blue tint.</li><li>[α]: Increase the number to make the color of the guides deeper.</li></ul>   |

The guides configured here are not displayed during Focus Stacking (P.250) or the filter adjustment screen for Live GND Shooting (P.247).

#### Choosing the Settings Available via Multi-Fn (Multi Function Settings)

#### PASMB

Choose the settings that can be accessed via multi-function buttons.



- **1.** Select the display type, and put a check ( $\checkmark$ ) next to it.
  - Select an option using  $\Delta \nabla$  and press the **OK** button to put a check ( $\checkmark$ ) next to it. To remove the check, press the **OK** button again.

| Highlight&Shadow<br>Control | Change the setting using the front and rear dials. Press the <b>INFO</b> button to change the area (highlight, midtone, shadow) to be configured. |  |
|-----------------------------|---|--|
| Color Creator               | Use the front dial to adjust hue and the rear dial to adjust saturation.  |  |
| ISO<br>≌ISO                 | Change the setting using the front and rear dials.  |  |
| r wb<br>≌ wb                |   |  |
| Magnify                     | A zoom frame will be displayed.   |  |
| Image Aspect                | Change the setting using the front and rear dials.  |  |
| LV Mode                     | The setting switches between <b>[Standard]</b> and <b>[S-OVF]</b> with each press of the button.  |  |
| Peaking                     | Turns on and off with each press of the button.   |  |

### Histogram Exposure Warning (Histogram Settings)

#### PASMB 🎛

Choose the brightness levels that the histogram shows as overexposed (highlights) or underexposed (shadows). These levels are used for exposure warnings in the histogram displays during shooting and photo playback.

• The areas shown in red or blue in the monitor and viewfinder [Highlight&Shadow] displays are also selected according to the values chosen for this option.

| Menu         • MENU → ☆ → 5. Grid/Other Displays → Histogram Settings |
|---|
|   |

| Highlight | Choose the minimum brightness for the highlight warning.<br>[245] – [255] |
|-----------|---|
| Shadow    | Choose the maximum brightness for the shadow warning.<br>[0] – [10]       |

## Settings related to operation and display of menus

#### Configuring the cursor on the menu screen (Menu Cursor Settings)

#### PASMB 🎛

Choose where the cursor will be displayed when you open the menu or move to a different page.

| • MENU 🔿 | <b>☆ →</b> 2 | . Operations 🔿 | Menu Cursor Settings |
|----------|--------------|----------------|----------------------|
|----------|--------------|----------------|----------------------|

Menu

| Page Cursor<br>Position           | <ul><li>[Save]: When you move to a different page, the cursor appears where it was the last time the page was opened.</li><li>[Reset]: Each time you move to a different page, the cursor appears at the top of the page.</li></ul>   |
|-----------------------------------|---|
| Menu Start<br>Position            | <ul> <li>[Recently]: When you open the menu, the last used tab, page, and cursor position are recalled.</li> <li>[D1]: When you open the menu, the first page of the D1 tab is displayed.</li> <li>[My]: When you open the menu, the first page of the "My" tab is displayed.</li> </ul>  |
| Shortcut to B<br>Mode<br>Settings | <ul> <li>The camera can be configured to open the mode-specific menu when you press the MENU button in B mode.</li> <li>[Off]: The menu opens according to the setting of [Menu Start Position].</li> <li>[On]: [Live Bulb], [Live Time], or [Composite Settings] opens, depending on the selected mode. * "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.269)</li> </ul> |

### Choosing how to move between pages with the rear dial ( Section 10 Provide the rear di

#### PASMB 🎛

Choose whether to switch the pages only within the same menu tab when the rear dial is turned.

| <ul> <li>Menu</li> <li>MENU → ☆ → 1. Operations → Dial Settings → ↓ Loop in Menu Tab</li> </ul> |  |  |
|---|--|--|
|   |  |  |
|   | When you move to the last page by turning the rear dial and turn it further, the first page of the next tab is displayed.  |  |
|   | When you move to the first page by turning the rear dial and turn it further, the last page of the previous tab is displayed.  |  |
| No  | Image Stabilizer       S-IS Auto         Image Stabilizer       S-IS Auto         Image Stabilizer       S-IS Auto         Image Stabilizer       Figs Priority         Image Stabilizer       Off         Use ND Shooting       Off         Live KND Shooting       Off         Multiple Exposure       Off   |  |
|   | When you move to the last page by turning the rear dial and turn it further, the first page of the current tab is displayed.<br>When you move to the first page by turning the rear dial and turn it further, the last page of the current tab is displayed.   |  |
| Yes   | 01       02       AF BP       ★ 1 My         01       mage Stabilizer       SH5 Auto         01       mage Stabilizer       Fpc Phonhy         11       mage Stabilizer       Fpc Phonhy         14       Made Stabilizer       Fpc Phonhy         14       Address Stabilizer       Fpc Phonhy         14       Address Stabilizer       Fpc Phonhy         14       Detailed Settings       BF         11       mage Respect       43         11       Mage Respect       43         11       Mage Respect       43         11       Mage Respect       64         11       Mage Respect       43         11       Mage Respect       64         11       Mage Respect       43         11       Mage Respect       64         12       Mage Respect       64         13       Mage Respect       64         14       Mage Respect       64         15       < |  |

 $\triangleright$  This settings is effective only when the rear dial is operated. When you use  $\triangleleft \triangleright$  to switch pages, it always works in the same way as when **[No]** is selected.

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#### [Yes]/[No] Default (Priority Set)

#### PASMB 🎛

Choose the option highlighted by default when a [Yes]/[No] confirmation is displayed.

| Menu<br>• MENU ➡ | → $\Rightarrow$ → 2. Operations → Priority Set |
|------------------|--|
| No               | [No] is highlighted by default.                |
| Yes              | <b>[Yes]</b> is highlighted by default.        |

### "My Menu" Settings

#### My Menu

You can use "My Menu" to create a personalized menu tab containing only items you select. "My Menu" can contain up to 5 pages of 7 items each. You can delete items or change the page or item order.

At purchase, "My Menu" contains no items.

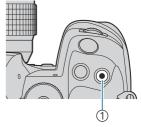
#### Adding items to "My Menu"

- 1. Press the **MENU** button to view the menus.
- **2.** Highlight an item for inclusion in "My Menu".
  - Any item in the menus A through i can be added to "My Menu" if it appears on the screen with tabs displayed.
  - Some other menu items can also be added to "My Menu". If the menu item can be added, "My" is displayed at the top right corner of the display.

|                         | (1)    |
|-------------------------|--------|
| BULB/TIME/COMP Settings | My     |
| Bulb/Time Focusing      | On     |
| Bulb/Time Timer         | 8min   |
| Live Composite Timer    |        |
| Bulb/Time Monitor       |        |
| Live Bulb               | Off    |
| Live Time               | 0.5sec |
| Composite Settings      | 1/2sec |
| 5 <b>MENU</b>           | OK     |

1 Item can be added to "My Menu" **3.** Press the <sup>(i)</sup> button.

- You will be prompted to choose a page. Use △∇ on the arrow pad to choose the "My Menu" page to which the item will be added.
- **4.** Press the **OK** button to add the item to the selected page.
  - The camera will display a message stating that the item has been added to "My Menu".
  - Items that have been added to "My Menu" are indicated by the number of the "My Menu" page.
  - Items can be removed from "My Menu" by pressing the button. Select **[Yes]** and press the **OK** button.
  - Items saved to "My Menu" are added to the My ("My Menu") tab.

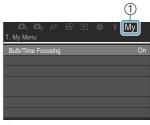




| Select M             | y Menu to add. My |
|----------------------|-------------------|
| Bulb/Time Focusing   | On                |
| Bulb/Time Timer      | My1               |
| Live Composite Timer | My2               |
| Bulb/Time Monitor    | My3               |
| Live Bulb            | My4               |
| Live Time            | My5               |
| Composite Settings   |                   |
| ⇒                    | OK                |

|                         | My <b>1</b> |
|-------------------------|-------------|
| Bulb/Time Focusing      | On          |
|                         |             |
|                         |             |
| Bulb/ Added to My Menu. |             |
|                         |             |
|                         |             |
|                         |             |
|                         |             |

| BULB/TIME/COMP Settings | My1    |
|-------------------------|--------|
| Bulb/Time Focusing      | On     |
| Bulb/Time Timer         | 8min   |
| Live Composite Timer    |        |
| Bulb/Time Monitor       |        |
| Live Bulb               | Off    |
| Live Time               | 0.5sec |
| Composite Settings      | 1/2sec |
| 5 <b>III</b>            | OK     |



①My ("My Menu") tab

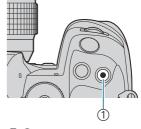
**5.** To access "My Menu", select the "My" tab.

You can make the camera display "My Menu" first when you press the MENU button.
 "Configuring the cursor on the menu screen (Menu Cursor Settings)" (P.381)

#### Managing "My Menu"

You can reorder items in "My Menu", move them between pages, or remove them from "My Menu" altogether.

- **1.** Press the **MENU** button to display the menus.
- **2.** Display the "My Menu" page you want to edit and press the button.





The options below will be displayed.
[Rearrange Order]: Change the order of items or pages.
Use △ ▽ 〈 ▷ to choose the new location.
[Remove this item]: Remove the highlighted item from "My Menu". Select [Yes] and press the OK button.
[Remove this page]: Remove from "My Menu" all items on the current page. Select [Yes] and press the OK button.

| <b>d</b> 1 <b>d</b> 2 AF | e P | *      | ì      | My   |    |
|--------------------------|-----|--------|--------|------|----|
| 1. My Menu               |     |        |        |      |    |
| Bulb/Time Focusing       |     |        |        |      | On |
| ù€                       | R   | earran | ge O   | rder |    |
| <b>W</b> B               | R   | emove  | this   | item |    |
| Metering                 | Re  | emove  | this p | bage |    |
| Flash Mode Settings      |     |        |        |      |    |
|                          |     |        |        |      |    |
|                          |     |        |        |      |    |

### **Card/Folder/File Settings**

#### Formatting the card (Card Formatting)

#### PASMB

Cards must be formatted with this camera before first use or after being used with other cameras or computers.

All data stored on the card, including protected images, is erased when the card is formatted. When formatting a used card, confirm there are no images that you still want to keep on the card. US "Usable cards" (P.34)

#### Menu

• MENU → 1 → 1. Card/Folder/File → Card Formatting

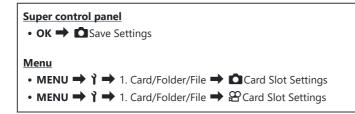
| Format Card | <b>[Yes]</b> : The card will be formatted.<br><b>[No]</b> : Formatting will be cancelled. |
|-------------|---|
| No          | Formatting will be cancelled.   |

• When there are cards in both slots 1 and 2, card slot selection appears. Select a card slot and press the **OK** button.

### Setting the card to record to ( Card Slot Settings / $\Re$ Card Slot Settings)

#### PASMB

When there are cards in both slots 1 and 2, you can select which card to record still images and movies to.



#### Configuring [Card Slot Settings]

| Settings | Choose the recording method for still images (P.389).<br>[Standard] / [Auto Switch] / [Dual Independent ↓□] / [Dual Independent ↑□] /<br>[Dual Same ↓□] / [Dual Same ↑□]  |
|----------|---|
| Slot     | Choose the card used to record photographs. This option takes effect when <b>[Standard]</b> or <b>[Auto Switch]</b> is selected for <b>[C Save Settings]</b> .<br><b>[Slot 1]</b> : Photographs are recorded on the card in slot 1.<br><b>[Slot 2]</b> : Photographs are recorded on the card in slot 2.  |
| ►Slot    | Choose the card used for still image playback when <b>[Dasve Settings]</b> is set to <b>[Dual Independent ]</b> , <b>[Dual Independent 1</b> ], <b>[Dual Same ]</b> , or <b>[Dual Same 1</b> ].<br>1.<br><b>[Slot 1]</b> : Photographs on the card in slot 1 are played back.<br><b>[Slot 2]</b> : Photographs on the card in slot 2 are played back. |

#### Configuring [ Save Settings]

| Standard                          | Pictures are recorded to the memory card in the slot selected for <b>Save Slot</b> (P.388). Shooting ends when the card is full.   |
|-----------------------------------|--|
| D Auto Switch                     | Pictures are recorded to the memory card in the slot selected for <b>[Save Slot]</b> (P.388). Pictures will be recorded to the remaining card when the card in the selected slot fills. This setting automatically reverts to <b>[Standard]</b> when only one memory card is inserted.   |
| ∜⊡⁄/⊡ Dual<br>Independent ↓□      | Each picture is recorded twice, once in each of two different image quality formats. Choose an image quality for each slot (P.211). Shooting ends when either card is full. Image quality for <b>[Dual Independent </b> ] is set separately for each slot; after changing the option selected, check the current image quality setting.  |
| 입/ Dual<br>Independent <b>î</b> ] | Each picture is recorded twice, once in each of two different image quality formats. Choose an image quality for each slot (P.211). Recording continues to the card in the remaining slot when either card fills. Image quality for <b>[Dual Independent 1</b> ] is set separately for each slot; after changing the option selected, check the current image quality setting. |
| Ull Dual Same<br>↓□               | Each picture is recorded twice, once to each card, using the option currently selected for image quality. Shooting ends when either card is full. This setting automatically reverts to <b>[Standard]</b> when only one memory card is inserted.   |
| û⊒€〕 Dual Same<br>Î⊡              | Each picture is recorded twice, once to each card, using the option currently selected for image quality. Recording continues to the card in the remaining slot when either card fills. This setting automatically reverts to <b>[Standard]</b> when only one memory card is inserted.   |

⑦ The image quality mode may change if you change the option selected for [ Save Settings] or replace a memory card with one that can contain a different amount of additional photographs. Check the image quality mode before taking photographs.

When **[Auto Switch]** is selected for **[D Save Settings]**, the camera will automatically switch between the last picture on the first card and the first picture on the second card.

#### Configuring [Card Slot Settings]

| 1 Slot 1 | Movies are recorded on the card in slot 1. |
|----------|--|
| 2 Slot 2 | Movies are recorded on the card in slot 2. |

### Specifying a folder to save images in (Assign Save Folder)

PASMB

Specify the folder on the card in which the images will be saved.

Menu • MENU → ↑ → 1. Card/Folder/File → Assign Save Folder

| Assign <sup>1</sup> | <ul> <li>[New Folder]: Specify a 3-digit folder number.</li> <li>1st digit: [0] – [9]</li> <li>2nd digit: [0] – [9]</li> <li>3rd digit: [0] – [9]</li> <li>[Existing Folder]: Select an existing folder using △∇. The first two frames and the last frame in the folder are displayed.</li> </ul> |
|---------------------|---|
| Do not<br>assign    | The folder in which the images will be saved is not specified. If a folder has already been specified, selection will be cancelled.   |

1 If a folder has already been specified, the name of the folder is displayed. To select a different folder, press ▷.

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#### File Naming Options (File Name)

#### PASMB 🎛

Choose how the camera names files when saving photos or movies to memory cards. File names consist of a four-character prefix and a four-digit number. Use this option to choose how file numbers are assigned.



& When two cards are inserted, the camera may create new folders or fail to number files consecutively depending on the file and folder numbers currently in use on each card.

| Auto  | When a new memory card is inserted, file numbering continues from the last number<br>used. If the card already contains a file with the same or a higher number, numbering will<br>continue from the highest number. |
|-------|--|
| Reset | Folder numbering is reset to 100 and file numbering to 0001 when a new card is inserted. If the card already contains images, numbering will continue from the highest number.                                       |

r

#### PASMB 🎛

Change the file names the camera uses when saving photos and movies to memory cards.

| Menu                               |                 |
|------------------------------------|-----------------|
| • MENU ➡ Ì ➡ 1. Card/Folder/File • | ➡ Edit Filename |

|              | <b>[Date (mdd)]</b> : The 2nd to 4th characters will be made up of the numbers corresponding to the month and day of the recording date (A to C will be used for October to December).<br>You can set the 1st character as you wish.    |
|--------------|---|
| sRGB         | [ <b>Directory Number</b> ]: The 2nd to 4th characters will be made up of the number of the destination folder ("100" – "999").<br>You can set the 1st character as you wish.   |
|              | <b>[Manual]</b> : You can set the first four characters as you wish using alphanumeric characters.  |
|              | <b>[Date (mdd)]</b> : The 2nd to 4th characters will be made up of the numbers corresponding to the month and day of the recording date (A to C will be used for October to December).<br>The 1st character cannot be changed from "_". |
| Adobe<br>RGB | [ <b>Directory Number</b> ]: The 2nd to 4th characters will be made up of the number of the destination folder ("100" – "999").<br>The 1st character cannot be changed from "_".  |
|              | <b>[Manual]</b> : You can set the 2nd to 4th characters as you wish using alphanumeric characters. The 1st character cannot be changed from "_".  |

### **User information**

#### Saving lens info (Lens Info Settings)

#### PASMB

The camera can store information for up to 10 lenses that do not conform to the Micro Four Thirds or Four Thirds system standards. These data also supply the focal length used for the image stabilization and keystone compensation features. The data are saved as Exif tags.

| Menu<br>• MENU → $\uparrow$ → 2. Information Record → Lens Info Settings |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  | Register the lens information.                                   |  |  |  |  |  |
|  | [Lens Name]: Input the name of the lens.                         |  |  |  |  |  |
| Create Lens Information  | [Focal Length]: Input the focal length.<br>[0.1] – [1000.0] mm   |  |  |  |  |  |
|  | [Aperture Value]: Input the aperture value.<br>[00.00] – [99.99] |  |  |  |  |  |
|  | [Set]: Save the lens information you have inputted.              |  |  |  |  |  |
|  | Edit the registered lens information.                            |  |  |  |  |  |
| Lens 01 (Registered Name) –  | [Edit]: Edit the registered lens information.                    |  |  |  |  |  |
| Lens 10 (Registered Name)  | Edit [Lens Name], [Focal Length], and [Aperture Value].          |  |  |  |  |  |
|  | [Delete]: Delete the registered lens information.                |  |  |  |  |  |

#### **Entering characters**

- Press the INFO button to switch between uppercase, lowercase and symbols.
- **2.** Highlight a character using  $\Delta \nabla \triangleleft \triangleright$  press the **OK** button to enter.
  - The selected character appears in the character entry area (a).
  - To delete a character, press the  $\mathbf{\tilde{1}}$  button.
- **3.** To delete a character in the character entry area (**a**), move the cursor using the front and rear dials.
  - Select a character and press the  $\mathbf{\tilde{m}}$  button to delete it.
- **4.** When you have finished entering, select **[End]** and press the **OK** button.



- a Character entry area
- **b** Cursor movement keys
- c Keyboard
- **d** Operation guide
- Touch operation can also be used to enter characters and operate a to d.

- The lens will be added to the lens info menu.
- When a lens that does not supply info automatically is attached, the info used is indicated by checks
   (✓). Highlight lenses to which you want to add checks (✓) and press the OK button.

#### **Output Resolution (dpi Settings)**



Choose the output resolution information (in dots per inch, or dpi) stored with photo image files. The selected resolution will be used when the images are printed. The dpi setting is stored as an Exif tag.

| Menu         |                         |              |
|--------------|-------------------------|--------------|
| • MENU 🔿 ᡟ 🔿 | 2. Information Record 🔿 | dpi Settings |

# Adding Copyright Information (Copyright Info.)



Choose the copyright information stored with photos when they are saved. Copyright information is stored as Exif tags.



- We will not be held liable for any disputes or damages arising from use of the [Copyright Info.] feature. Use at your own risk.
- ⑦ To delete the copyright information you have entered, delete the characters on the entry screen of each item (P.398).

#### **Enabling Copyright Info.**

**1.** Use  $\Delta \nabla$  to select **[Copyright Info.]** and press the **OK** button.

| Co                            | pyright Info. |
|-------------------------------|---------------|
| Copyright Info.               | Off           |
| Artist Name<br>Copyright Name |               |
|                               |               |
|                               |               |
|                               | OK            |

Copyright Info. setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

Off Do not add Exif tags naming the photographer and/or copyright holder.

On Add Exif tags naming the photographer and/or copyright holder.

**3.** The display returns to the Copyright Info. setting screen.

## **Configuring Copyright Info.**

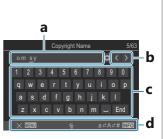
- **1.** Configure options.
  - Press △∇ to select an item and press the OK button to display the setting menu.
  - After configuring options, press the **OK** button to return to Copyright Info. setting screen.



| Artist Name    | Enter the name of the photographer.     |
|----------------|---|
| Copyright Name | Enter the name of the copyright holder. |

#### **Entering characters**

- Press the INFO button to switch between uppercase, lowercase and symbols.
- **2.** Highlight a character using  $\Delta \nabla \triangleleft \triangleright$  press the **OK** button to enter.
  - The selected character appears in the character entry area (a).
  - To delete a character, press the  $\mathbf{\tilde{m}}$  button.
- **3.** To delete a character in the character entry area (**a**), move the cursor using the front and rear dials.
  - Select a character and press the  $\mathbf{\tilde{u}}$  button to delete it.
- **4.** When you have finished entering, select **[End]** and press the **OK** button.



- a Character entry area
- **b** Cursor movement keys
- c Keyboard
- d Operation guide
- Touch operation can also be used to enter characters and operate a to d.

# **Monitor/Sound/Connection Settings**

# Disabling Touch Controls (Touchscreen Settings)

### PASMB 🎛

Enable or disable touch controls.

|   | Menu   |
|---|--|
|   | • MENU $\Rightarrow$ $\uparrow$ $\Rightarrow$ 3. Monitor/Sound/Connection $\Rightarrow$ Touchscreen Settings |
| - |  |

| Off | Disable touch controls. |
|-----|-------------------------|
| On  | Enable touch controls.  |

# Monitor Brightness and Hue (Monitor Adjust)

# PASMB 🎛

Adjust monitor color temperature and brightness. This option applies in both still photography and movie modes.

| Menu<br>• MENU → ↑ → 3. Monitor/Sound/Connection → Monitor Adjust |  |
|---|--|
|   |  |

| ਿੰ (Color<br>temperature) | Adjust color temperature.<br>Use the front dial or $\triangleleft \triangleright$ to adjust the "amber-blue" axis. Moving the pointer $(-\dot{+}-)$ closer to A adds a red cast and moving it closer to B adds a blue cast.<br>Use the rear dial or $\triangle \nabla$ to adjust the "green-magenta" axis. Moving the pointer $(-\dot{+}-)$ closer to G adds a green cast and moving it closer to M adds a magenta cast. |
|---------------------------|--|
| ☆ (Brightness)            | Adjust brightness. Select an option using $\Delta \nabla$ .<br>[-7] – [±0] – [+7]  |

- Press the INFO button to switch between color temperature and brightness and set each item.
- You can reset the setting by pressing and holding the **OK** button.
- In B mode, the monitor uses the brightness selected in [Bulb/Time Monitor]. I Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.269)

# Viewfinder Brightness and Hue (EVF Adjust)

# PASMB 🎛

Adjust viewfinder brightness and hue. The display switches to the viewfinder while these settings are being adjusted.

| Menu         • MENU → ↑ → 3. Monitor/Sound/Connection → EVF Adjust |  |
|--|--|
|  |  |

| J <sup>E</sup> (Color<br>temperature)<br>☆ (Brightness) | <ul> <li>(-+-) closer to A adds a red cast and moving it closer to B adds a blue cast.</li> <li>Use the rear dial or △▽ to adjust the "green-magenta" axis. Moving the pointer (-+-) closer to G adds a green cast and moving it closer to M adds a magenta cast.</li> <li>[EVF Auto Luminance Off] / [EVF Auto Luminance On]: Viewfinder brightness and indicator contrast adapt automatically to ambient lighting</li> </ul> |
|---|--|
|   | <ul> <li>conditions. Change the setting using ⊲▷.</li> <li>[☆]: Adjust brightness. Select an option using △∇.</li> <li>[-7] - [±0] - [+7]</li> <li>② Brightness cannot be changed when [EVF Auto Luminance On] is selected.</li> </ul>   |

- Press the INFO button to switch between color temperature and brightness and set each item.
- You can reset the setting by pressing and holding the **OK** button.

# Configuring the eye sensor (Eye Sensor Settings)

### PASMB 🎛

You can specify how the camera operates when you put your eye to the viewfinder.

Г

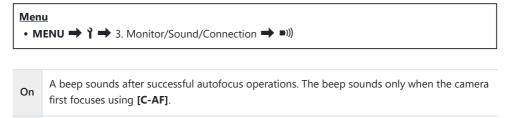
| Menu<br>• MENU → Y → 3. Monitor/Sound/Connection → Eye Sensor Settings |   |  |
|--|---|--|
|  |   |  |
| EVF Auto   | <b>[Off]</b> : The display does not switch when you put your eye to the viewfinder. To switch the display, press the IOI button.  |  |
| Switch   | <b>[On]</b> : The viewfinder automatically turns on when you put your eye to the viewfinder.  |  |
|  | Choose what will be displayed when the display automatically switches to the viewfinder.  |  |
| Behavior<br>when<br>switched   | <b>[Maintain Screen]</b> : The screen that was shown on the monitor will be shown in the viewfinder.  |  |
| Switched   | [Shooting Screen]: The viewfinder shows the live view even if the playback screen<br>or a menu was shown on the monitor.  |  |
| When   | <b>[Operative]</b> : When <b>[EVF Auto Switch]</b> is <b>[On]</b> and you put your eye to the viewfinder, the display switches to the viewfinder even if the monitor is open.     |  |
| Monitor is<br>Opened   | <b>[Inoperative]</b> : When <b>[EVF Auto Switch]</b> is <b>[On]</b> and you put your eye to the viewfinder, the display does not switch to the viewfinder if the monitor is open. |  |

*<sup>b</sup>* The **[EVF Auto Switch]** setting screen appears when you press and hold the OI button.

# Disabling the Focus Beep (■)))

#### PASMB

Disable the beep that sounds when the camera focuses.



Off A beep does not sound after successful autofocus operations.

# External Monitor Display Options (HDMI Settings)

# PASMB 🎛

Choose the signal output to external monitors connected via HDMI. Adjust the frame rate, movie frame size, and other settings according to monitor specifications.

| Menu<br>• MENU → Y → 3. Monitor/Sound/Connection → HDMI Settings |  |
|--|--|
| Output Size  | Choose the type of signal output to the HDMI connector.<br><b>[C4K]</b> : The signal is output in 4K digital cinema (4096 × 2160) format.<br><b>[4K]</b> : If possible, the signal is output in 4K (3840 × 2160).<br><b>[1080p]</b> : If possible, the signal is output in Full HD (1080p).<br><b>[720p]</b> : If possible, the signal is output in HD (720p). |
| Output<br>Frame Rate   | Choose the signal frame rate according to whether the device supports NTSC or PAL.<br>[60p Priority]: Frame rate for areas supporting NTSC.<br>[50P Priority]: Frame rate for areas supporting PAL.  |

⑦ [Output Frame Rate] cannot be changed when the camera is connected to a device via HDMI.
 ⑦ Sound will not be played back unless the connected device is compatible with the sound format.
 ※ You can configure detailed options for when outputting signals to an HDMI device in movie mode.

"HDMI Output (HDMI Output)" (P.285)

# Choosing a USB Connection Mode (USB Settings)

### PASMB

Choose how the camera functions when connected to external devices via USB.

r

| Menu<br>• MENU → $\uparrow$ → 3. Monitor/Sound/Connection → USB Settings |   |  |
|--|---|--|
|  | <b>[Select]</b> : The menu for selecting the connection mode appears each time a USB cable is connected.  |  |
|  | <b>[Storage]</b> : The camera functions as an external storage device. The data on the camera memory card can be copied to the computer.  |  |
|  | <b>[MTP]</b> : The pictures on the memory card can be viewed or copied to the computer using computer software (P.465).   |  |
| USB<br>Mode  | <b>[Webcam]</b> : The camera can be connected to a computer and used as a webcam for online meetings and live streaming (P.466). No additional drivers or applications are necessary. Video and audio data captured by the camera is streamed to the computer by simply connecting the two devices via USB (USB streaming). |  |
|  | [ <b>G RAW/Control</b> ]: Employing computer controls available via OM Workspace,<br>process pictures using the camera's high-speed image processing engine. Also, by using<br>OM Capture, you can shoot and transfer images to a computer and control the camera<br>from a computer.                                       |  |
|  | For details, see "Uploading Pictures as They Are Taken ( RAW/Control)" (P.462),<br>"Connecting the Camera for High-Speed RAW Processing ( RAW/Control)" (P.464).  |  |
|  | <b>[USB PD]</b> : Select this when the camera does not start to be powered automatically when connected to a USB PD-compliant device. In most circumstances, there is no need to select this option.  |  |
| Deurer   | Choose whether to power the camera when connecting to a computer via USB.   |  |
| Power<br>Supply<br>from  | <b>[Yes]</b> : The camera will be powered when the camera and computer are connected via USB.   |  |
| USB  | <b>[No]</b> : The camera will not be powered when the camera and computer are connected via USB.  |  |

When you connect the camera to a computer via USB while [Storage], [MTP], [Webcam], or [ [] <sup>A</sup>RAW/Control] is selected, you can use the camera while powering it.

# **Battery/Sleep Settings**

# Displaying Battery Status ( Battery Status)

#### PASMB

View the status of the batteries inserted in the camera. Status of the battery in the camera and of the battery in the power battery holder are displayed individually.

| Menu   |  |
|--|--|
| • MENU → Ì → 5. Battery/Sleep → 💷 Battery Status |  |

② Some items are not displayed when the camera is powered from the USB-AC adapter or a USB PD-compliant USB device.

# Setting which Battery Is Used First (IBattery Priority)

## PASMB 🎛

Choose which battery to use first when there are batteries in both the camera and the optional power battery holder (P.478).

| Menu<br>• MENU → $ ightarrow$ 5. Battery/Sleep → T Battery Priority |   |
|---|---|
| Body Battery  | The battery in the camera is used first.                        |
| PBH Battery   | The battery in the optional power battery holder is used first. |

# Changing the battery level display during movie recording (🍄 💷 Display Pattern)



Choose a format for the battery level display. Battery level can be displayed as a percentage or as the amount of shooting time remaining.

() The shooting time display is intended as a guide only.

 Menu

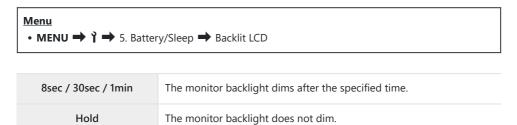
 • MENU → ↑ → 5. Battery/Sleep → ♀ ♀ Im Display Pattern

| %   | Battery level is shown as a percentage.  |
|-----|--|
| min | Battery level is shown as the shooting time remaining. In still photography modes, the battery level is displayed only while recording movies. |

# Dimming the Backlight (Backlit LCD)

## PASMB 🎛

Choose the length of time before the monitor backlight dims when no operations are performed. Dimming the backlight reduces the drain on the battery.



# Setting Sleep (Power Saving) Options (Sleep)

# PASMB 🎛

Choose the delay before the camera enters sleep mode when no operations are performed. In sleep mode, camera operations are suspended and the monitor turns off.



| Off                | The camera does not enter sleep mode.                  |
|--------------------|--|
| 1min / 3min / 5min | The camera enters sleep mode after the specified time. |

• Normal operation can be restored by pressing the shutter button halfway.

(2) The camera will not enter sleep mode in the following situations.

- while a multiple exposure is in progress, while connected to an HDMI device, while connected to a smartphone via Wi-Fi, while connected to a computer via Wi-Fi or USB, while connected to a remote control wirelessly, or while being powered via USB.

# Setting Auto Power Off Options (Auto Power Off)

## PASMB 🎛

The camera will turn off automatically if no operations are performed for a set time after it has entered sleep mode. This option is used to choose the delay before the camera turns off automatically.

| Menu<br>• MENU → $ ightharpoondown$ 5. Battery/Sleep → Auto Power Off |   |
|---|---|
| Off   | The camera does not turn off automatically. |

To reactivate the camera after it has turned off automatically, turn the camera on using the ON/OFF lever.

5min / 30min / 1h / 4h

The camera turns off after the specified time.

# Reducing Power Consumption (Quick Sleep Mode)



Further reduce power consumption during viewfinder photography. The delay before the backlight turns off or the camera enters sleep mode can be shortened.

#### Power saving is not available:

- during live view photography, while the viewfinder is on, while multiple exposure or interval timer photography is in progress, while connected to an HDMI device, while connecting to a smartphone via Wi-Fi, while connecting to a computer via Wi-Fi or USB, or while Bluetooth is enabled



#### **Enabling Quick Sleep Mode**

**1.** Use  $\Delta \nabla$  to select **[Quick Sleep Mode]** and press the **OK** button.

| Quick Sleep                              | Mode                 |
|--|----------------------|
| Quick Sleep Mode                         | Off                  |
| Backlit LCD                              | 8sec                 |
| Sleep                                    | 10sec                |
|  |                      |
|  |                      |
|  |                      |
| <b>⇒</b> ≣₩                              | OK                   |
| Ouick Sleep M                            | ode setting          |
| Quick Sleep Mode<br>Backlit LCD<br>Sleep | Off<br>8sec<br>10sec |

Quick Sleep Mode setting screen

**2.** Highlight **[On]** using the  $\Delta \nabla$  buttons and press the **OK** button.

 Off
 The camera does not enter power-saving mode.

 On
 The camera is quick to enter power-saving mode. When power-saving is in effect and the super control panel is displayed (P.47), "ECO" is displayed on the monitor.

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**3.** The display returns to the Quick Sleep Mode setting screen.

## **Configuring Quick Sleep Mode**

#### **1.** Configure options.

- Press  $\Delta \nabla$  to select an item and press the **OK** button to display the setting menu.
- After configuring options, press the **OK** button to return to Quick Sleep Mode setting screen.

| On    |
|-------|
| 8sec  |
| 10sec |
|       |
|       |
|       |
| OK    |
|       |

| Backlit | Choose the length of time before the monitor backlight dims when no operations are performed.   |
|---------|---|
| LCD     | [3sec] / [5sec] / [8sec]  |
| Sleep   | Choose the delay before the camera enters sleep mode when no operations are performed.<br>[3sec] / [5sec] / [8sec] / [10sec] / [15sec] / [30sec] / [1min] |

• When power-saving is in effect and the super control panel is displayed (P.47), "ECO" is displayed on the monitor.

| 2024.01.01 16:30:43<br>P 1/ 250 ⊧5.6 <sup>ISO</sup> 200               | ECO        |          |       |                         |
|---|------------|----------|-------|-------------------------|
|   | 2024.01.01 | 16:30:43 |       |                         |
|   | Р          | 1/250    | ⊧5.6  | ISO 200                 |
| [ 😐 ]Small Tururu futuru t ±0.0 🛛 🖇 🗢                                 | [ 😐 ]Small |          | ±0.0⊠ |                         |
| 🛪 3 WB Auto 🗘   | *3         | WB Auto  |       | ¢                       |
| S-AF \$\$\$00 \$ 201 ± 0.3  | S-AF       | [9] Off  |       | 20.3 ±0.3               |
| 🗌 🐼 4:3 S-IS Auto   |            | ₹        | 4:3   | S-IS Auto               |
| ■ 1023 ■ <sup>■</sup> F 10 <sup>4366</sup> 0 L <sup>68</sup><br>1:023 |            | 1023     |       | 1 4K 60p L-8<br>1:02:03 |

# Reset/Clock/Language/Others Settings

# Restoring Default Settings (Reset/Initialize Settings)

## PASMB 🎛

Reset the camera to factory default settings. You can opt to reset almost all settings or only those directly related to photography.

#### Menu • MENU → ↑ → 6. Reset/Clock/Language/Others → Reset/Initialize Settings

| Reset Shooting Settings | Reset photography-related settings only.                                  |
|-------------------------|---|
| Initialize All Settings | Reset all settings with a few exceptions, such as the clock and language. |

See "Default Settings" (P.510) for information on the settings that are reset.

Settings can be saved using OM Workspace or OM Image Share. For more information, visit our website.

# Setting the Camera Clock (<sup>(1)</sup>) Settings)

## PASMB 🎛

Set the camera clock.

| Menu<br>• MENU → Y → 6. Reset/Clock/Language/Others → ④ Settings |   |
|--|---|
| ٩  | Set the date, time, and date format. Use the $\triangleleft \triangleright$ buttons to highlight items and use the $\triangle \nabla$ buttons to change the highlighted item.   |
| Time<br>Zone   | Set the time zone and daylight-saving time. Use the $\Delta \nabla$ buttons to change the time zone.<br>Pressing the <b>INFO</b> button allows you to set the daylight-saving time. It switches on and off each time the <b>INFO</b> button is pressed. |

# Choosing a Language (🚱)

### PASMB

Choose a language for camera menus and tool tips.



# **Calibrating the Level Gauge (Level Adjust)**

## PASMB 🎛

Correct deviation in the level gauge. Calibrate the gauge if you find it is no longer truly plumb or level.

| Menu   |  |
|--|--|
| • <b>MENU</b> $\rightarrow$ $\uparrow$ $\rightarrow$ 6. Reset/Clock/Language/Others $\rightarrow$ Level Adjust |  |

| Reset  | Reset the gauge to factory default settings.   |
|--------|--|
| Adjust | Choose the reference (zero) point. Calibrate the level gauge after positioning the camera appropriately. |

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# Image Processing Check (Pixel Mapping)

# PASMB 🎛

Check the image sensor and image processing functions simultaneously. For best results, end shooting and playback and wait at least a minute before performing pixel mapping.

② Be sure to perform the check again if you accidentally turn the camera off while the check is in progress.



# Viewing the Firmware Version (Firmware Version)



View the versions of the firmware for the camera and any lenses or other peripherals currently connected. You may need this information when contacting customer support or performing firmware updates.

Menu • MENU → Y → 6. Reset/Clock/Language/Others → Firmware Version

# **Viewing Certificates (Certification)**

## PASMB 🎛

Display the compliance certificates for some of the standards with which the camera complies.



# **Connecting the Camera to External Devices**

# **Connecting to External Devices**

A number of tasks can be accomplished by connecting the camera to an external device such as a computer or smartphone.

# Precautions for Using Wi-Fi and Bluetooth<sup>®</sup>

Disable wireless LAN and **Bluetooth**<sup>®</sup> in countries, regions, or locations in which their use is prohibited.

The camera is equipped with wireless LAN and **Bluetooth**<sup>®</sup>. Use of these features in countries outside the region of purchase may violate local wireless regulations.

Some countries and regions may prohibit the acquisition of location data without prior governmental permission. In some sales areas, the camera may consequently ship with location data displays disabled.

Each country and region have its own laws and regulations. Check them before traveling and observe them while abroad. Our company assumes no liability for any failure on the part of the user to observe local laws and regulations.

Disable Wi-Fi on airplanes and in other locations where their use is prohibited. **I** "Disabling the camera's wireless communication (Airplane Mode)" (P.424)

- Wireless transmissions are vulnerable to interception by third parties. Use wireless features with this in mind.
- ⑦ The wireless transceiver is located in the camera grip. Keep it as far away as practicable from metal objects. Moreover, the signal strength may be reduced if the grip part is held or covered.
- When transporting the camera in a bag or other container, be aware that the contents of the container or the materials of which it is constructed may interfere with wireless transmissions, which can prevent the camera connecting to a smartphone.
- Wi-Fi connections increase the drain on the batteries. The connection may be lost during use if the batteries are low.
- ② Devices such as microwave ovens and cordless phones that generate radio-frequency emissions, magnetic fields, or static electricity may slow or otherwise interfere with wireless data transmission.
- () Some wireless LAN features are unavailable when the memory card write-protect switch is in the "LOCK" position.

# Disabling the camera's wireless communication (Airplane Mode)

#### PASMB

Disable the camera's wireless (Wi-Fi/ **Bluetooth**®) functions.

#### Menu • MENU → Y → 4. Wi-Fi/Bluetooth → Airplane Mode

| Off | Wireless communication is enabled.  |
|-----|---|
| On  | Wireless communication is disabled. You cannot use it until you change the setting to <b>[Off]</b> .<br>→ appears when you select <b>[On]</b> . |

Scommunication with the Wireless Radiowave Commander FC-WR is possible even if you select **[On]**.

# **Connecting the Camera to a Smartphone**

## **Connecting to Smartphones**

Use the camera's wireless LAN (Wi-Fi) and **Bluetooth**<sup>®</sup> features to connect to a smartphone, where you can use the dedicated app to enhance your enjoyment of the camera both before and after shooting. Once a connection has been established, you can download and take pictures remotely and add position information to images.

• Operation is not guaranteed on all smartphones.

#### Things you can do with the specified app, OM Image Share

- Download images from the camera to the smartphone
   Download pictures marked for sharing (P.310) to your smartphone.
   You can also use the smartphone to select images for download from the camera.
- **Remote shooting from a smartphone** You can remotely operate the camera and shoot using a smartphone.
- Beautiful image processing

Use intuitive controls to apply impressive effects to images downloaded to your smartphone.

Addition of GPS tags to camera images
 Using the smartphone's GPS function, you can add position information when taking pictures with
 the camera

For details, visit our website.

# Pairing the Camera and Smartphone (Wi-Fi Connection)

Follow the steps below when connecting the devices for the first time.

- Adjust pairing settings using OM Image Share, not the settings app that is part of the smartphone operating system.
  - **1.** Launch the copy of the dedicated OM Image Share app previously installed on your smartphone.
  - **2.** Tap the **I** icon displayed on the shooting standby screen.

الله: You can also perform the following operations.

```
      Super control panel

      • $ 奈

      Menu

      • MENU → ↑ → 4. Wi-Fi/Bluetooth → Wi-Fi Connection
```

- **3.** Select [Device Connection] and press the OK button.
- 4. Follow the on-screen guide to adjust Wi-Fi/Bluetooth<sup>®</sup> settings.
  - The **Bluetooth** local name and passcode, the Wi-Fi SSID and password, and a QR code are displayed in the monitor.



 Bluetooth local name Bluetooth Passcode
 Wi-Fi SSID Wi-Fi Password
 QR code

- 5. Tap the camera icon at the bottom of the OM Image Share display.
  - An [Easy Setup] tab will be displayed.

- **6.** Follow the on-screen instructions in OM Image Share to scan the QR code and adjust connection settings.
  - If you are unable to scan the QR code, follow the on-screen instructions in OM Image Share to adjust settings manually.
    - **Bluetooth**<sup>®</sup>: To connect, select the local name and enter the passcode displayed in the camera monitor into the Bluetooth settings dialog in OM Image Share.
    - Wi-Fi: To connect, enter the SSID and password displayed on the camera monitor into the Wi-Fi settings dialog in OM Image Share.
  - $\diamondsuit$  on the screen will turn green when pairing is complete.
  - The  $\textbf{Bluetooth}^{\circledast}$  icon indicates the status as follows:
    - **\$**: The camera is emitting wireless signal.
    - $\boldsymbol{\ast}$ : Wireless connection has been established.
- 7. To end the Wi-Fi connection, press **MENU** on the camera or tap 🛠 💷 on the monitor screen.
  - You can also turn the camera off and end the connection from OM Image Share.
  - At default settings, **Bluetooth**<sup>®</sup> connection is kept active even after Wi-Fi connection is terminated, allowing you to shoot remotely with a smartphone. To set the camera to also terminate **Bluetooth**<sup>®</sup> connection when terminating Wi-Fi connection, set **[Bluetooth]** to **[Off]**.

# Wireless Connection Standby Setting for When the Camera Is On (Bluetooth)

You can choose whether the camera will be on standby for wireless connection with a smartphone or optional remote control when the power is on.

Complete the pairing of camera and smartphone or the optional remote control beforehand. [Bluetooth] cannot be selected unless the pairing has been completed.



|   | Off  | camera will not be on standby for wireless connection and wireless signal will not be<br>tted even when the power is on.   |  |
|---|------|--|--|
|   | On∦  | When the camera is on, it will emit wireless signal and be on standby for wireless connection.<br>You can connect the camera and the smartphone through operation of OM Image Share and shoot remotely or transfer images. |  |
| c | Dn∦å | When the camera is turned on, it will start transmitting wireless signals, and if the devices have already been paired (P.457), it will stand by for connection from a remote control.                                     |  |

If the GPS track log is enabled in the dedicated OM Image Share app, location data downloaded from the app will be added to pictures taken while [On\*] is selected.

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# Wireless Settings for When the Camera Is Off (Power-off Standby)

You can choose whether the camera will maintain a wireless connection to the smartphone when off.

Menu • MENU → 1 → 4. Wi-Fi/Bluetooth → □ Settings → Power-off Standby

| Select | When you turn the camera off, you will be prompted to choose whether to maintain the wireless connection to the smartphone.   |
|--------|---|
| Off    | Turning the camera off terminates the wireless connection to the smartphone.  |
| On     | When the camera is turned off, the connection to the smartphone remains active and the smartphone can still be used to download or view the pictures on the camera. |

### "Select"

When **[Select]** is chosen for **[Power-off Standby]**, a confirmation dialog will be displayed before the camera turns off if all the following conditions are met:

- [Off] is selected for [Airplane Mode]
- The camera is currently connected with a smartphone (P.426)
- The memory card is correctly inserted

| Power-off Standby  |    |
|--|----|
| Activate Wi-Fi/Bluetooth Power-off<br>Standby so images can be imported<br>while power is off? |    |
| Yes  |    |
|  |    |
|  |    |
|  | OK |

Yes Turn the camera off but leave the wireless smartphone connection active.

**No** Turn the camera off and terminate the wireless smartphone connection.

- If no operations are performed about a minute after the confirmation dialog is displayed, the camera will end the wireless connection to the smartphone and turn off automatically.
- (1) If left active, the wireless connection will automatically terminate if: The connection can be restored

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by turning the camera on.

- the connection remains inactive for 12 hours
- the memory card is removed
- the battery is replaced
- a charging error occurs during on-board battery charging

Solution Note that if **[On]** is selected for **[Power-off Standby]**, camera may not turn on immediately when the **ON/OFF** lever is rotated to **ON**.

## Transferring images to a smartphone

You can select images in the camera and load them to a smartphone. You can also use the camera to select images you want to share in advance. I "Selecting Pictures for Sharing (Share Order)" (P.310)

- If [Off] or [On<sup>\$1</sup>] is selected for [Bluetooth] (P.428), select [On<sup>\$</sup>].
- Selecting **[On∛]** for **[Bluetooth]** (P.428) puts the camera on standby, ready for a wireless connection.
  - **1.** Tap **[Import Photos]** in OM Image Share on the smartphone.
    - ② Depending on the smartphone, a confirmation screen for Wi-Fi connection may appear. Follow the on-screen guidance to connect the smartphone and the camera.
    - The images in the camera are displayed in a list.
  - **2.** Select the pictures you want to transfer and tap the Save button.
    - When saving is completed, you can turn off the camera from the smartphone.
    - Even if [Bluetooth] (P.428) is set to [Off] or [On<sup>\*</sup><sup>1</sup>/<sub>2</sub>], [Import Photos] can be used by starting [Wi-Fi Connection] → [Device Connection] on the camera.

# Automatically uploading images while the camera is off

To configure the camera to automatically upload images to a smartphone while off:

- Mark images for sharing (P.310).
- Enable power-off standby (P.429).
- If you are using an iOS device, launch OM Image Share.

When you mark an image for sharing on the camera and turn the camera off, a notification appears in OM Image Share. When you tap the notification, images are automatically transferred to the smartphone.

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# Shooting remotely with a smartphone (Live View)

You can shoot remotely by operating the camera with a smartphone while checking the live view on the smartphone screen.

- The camera shows the connection screen and all operations are performed from the smartphone.
- If [Off] or [On<sup>\$1</sup>] is selected for [Bluetooth] (P.428), select [On<sup>\$</sup>].
- Selecting **[On∛]** for **[Bluetooth]** (P.428) puts the camera on standby, ready for a wireless connection.
  - 1. Launch OM Image Share and tap [Remote Control].
  - 2. Tap [Live View].
  - **3.** Tap the shutter button to shoot.
    - The image taken is saved on the memory card in the camera.
- ② Available shooting options are partially limited.

# Shooting remotely with a smartphone (Remote Shutter)

You can shoot remotely by operating the camera with a smartphone (Remote Shutter).

- All operations are available on the camera. In addition, you can shoot pictures and record movies using the shutter button displayed on the smartphone screen.
- If [Off] or [On<sup>\$1</sup>] is selected for [Bluetooth] (P.428), select [On<sup>\$</sup>].
- Selecting **[On∛]** for **[Bluetooth]** (P.428) puts the camera on standby, ready for a wireless connection.
  - **1.** Launch OM Image Share and tap [Remote Control].
  - 2. Tap [Remote Shutter].
  - **3.** Tap the shutter button to shoot.
    - The image taken is saved on the memory card in the camera.

¿→ Even if [Bluetooth] (P.428) is set to [Off] or [On<sup>\*</sup><sup>1</sup>/<sub>2</sub>], [Remote Shutter] can be used by starting
 [Wi-Fi Connection] → [Device Connection] on the camera.

# Adding position information to images

Using the smartphone's GPS function, you can add position information when taking pictures with the camera.

- If **[Off]** or **[On**<sup>\$</sup><sup>1</sup>/<sub>4</sub>] is selected for **[Bluetooth]** (P.428), select **[On**<sup>\$</sup>].
- Selecting **[On∛]** for **[Bluetooth]** (P.428) puts the camera on standby, ready for a wireless connection.
  - **1.** Before taking pictures with the camera, launch OM Image Share and switch on the position information addition function.
    - When you are prompted to synchronize the clocks of the smartphone and the camera, follow the guides displayed in OM Image Share.
  - **2.** Take pictures with the camera.
    - When it is possible to add position information, will be lit on the shooting screen. When the camera cannot acquire position information, blinks.
    - It may take some time before the camera is ready to add position information when it has been turned on or it has resumed from sleep mode.
    - Position information will be added to pictures taken while  ${igodot}$  is displayed on the screen.
    - $\odot$  is displayed on the screen when you view a picture that has position information.

⑦ Position information is not added to movies.

**3.** When you have finished shooting, switch off the position information addition function in OM Image Share.

# Resetting smartphone connection settings (Reset Settings)

You can restore smartphone connection settings to default values.



&-The following menu items will be reset.

- [Connection Password] (P.437) / [Power-off Standby] (P.429)

& Before connecting to a smartphone, you will need to pair the devices again (P.426).

# Changing the password ( Connection Password)

To change the Wi-Fi/**Bluetooth**® passwords:



- **1.** Press the **③** button as directed by the on-screen guide.
  - A new password will be set.

& Both the Wi-Fi connection password and **Bluetooth**<sup>®</sup> connection passcode can be changed.

Reconnect to the smartphone after changing passwords. I "Pairing the Camera and Smartphone (Wi-Fi Connection)" (P.426)

# **Connecting to Computers via Wi-Fi**

# **Installing Software**

Use OM Capture to connect the camera and computer via Wi-Fi.

#### **OM Capture**

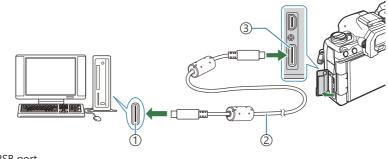
Use "OM Capture" to automatically download and view pictures as they are taken or control the camera remotely. To learn more or to download the software, visit our website. When downloading the software, be prepared to provide the camera serial number.

Follow the on-screen instructions to install the software. System requirements and installation instructions are available at our website.

# Pairing the Computer with the Camera (New Link)

The camera and computer must be paired in order to connect. Up to four computers can be paired with the camera at a time. To pair a computer with the camera, connect it via USB. Pairing need only be performed once per computer.

- **1.** After confirming that the camera is off, connect it to the computer using the USB cable.
  - When attaching the USB cable, using an optional cable protector and cable clip helps prevent damage to the connectors and disconnection of the table. If "Cable Clip (CC-1) / Cable Protector (CP-2)" (P.486)



USB port
 USB cable (supplied)
 USB connector

- The locations of USB ports vary from computer to computer. See the documentation provided with the computer for information on USB ports.
- If the USB port on the computer is Type A port, use the optional CB-USB11 cable.
- **2.** Turn the camera on.
  - The camera will display a message prompting you to identify the device to which the USB cable is connected.

&-If the message is not displayed, select [Select] for [USB Mode] (P.405).

⑦ If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.

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**3.** Highlight [ $\Box$ J<sup> $\Box$ </sup>RAW/Control] using the  $\Delta \nabla$  buttons and press the **OK** button.

- **4.** Launch the copy of OM Capture installed on the computer.
  - After starting up, "OM Capture" will prompt you to choose the connection type.
- **5.** Click the **[+]** to the right of **[Create new link]**.
  - If nothing happens, reconnect the camera.

- Enter the name that will be used on the camera to identify the computer. The default is the computer's "Computer Name".
- The name used on the camera can be up to 15 characters long.
- 6. Click [Settings] in OM Capture.
  - When a message is displayed stating that pairing is complete, disconnect the camera as instructed.

- Repeat the above steps to pair the camera with each additional computer.
- The pairing information stored on the camera can be viewed and deleted using "OM Capture".
- (2) If the connection to the computer does not work, the computer needs to recognize the camera.

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# Adjusting Wi-Fi Settings (Wi-Fi Connection)

Adjust settings for connection to the network to which the paired computer belongs.

Before the camera can connect to the computer via Wi-Fi, it must be configured for connection to the network via the Wi-Fi router or access point. Multiple network profiles can be stored on the camera and recalled as desired. **[Wi-Fi Connection]** settings can be adjusted via the following methods:

| Connect by<br>WPS                   | <ul> <li>Configure the camera for automatic connection (P.442).</li> <li>To connect using a WPS router or access point, simply press the device's WPS button.</li> <li>[PBC Method]: Connect using only the router WPS button. The camera connects automatically when the button is pressed.</li> <li>[PIN Method]: The camera connects in PIN mode. Enter the camera PIN on the router to connect.</li> </ul> |
|-------------------------------------|--|
| Connect from<br><b>((יףי))</b> List | Choose the network from a list (P.447).<br>The camera will search for available networks; to connect, select a network from<br>the list and enter the network password.  |
| Connect<br>manually                 | Adjust connection settings manually (P.444).<br>To connect, enter the network name (SSID) and other settings.  |

- WPS connections require a WPS-compatible router or access point.
- Connecting via WPS in PIN mode requires that the router itself be connected to an administrator computer from which the PIN can be entered.
- Manual connection requires that you have information on the network to which you are connecting.
- The camera can connect via routers or access points of the following types:
  - Standard: IEEE802.11a/b/g/n/ac
  - Band: 2.4 GHz or 5 GHz
  - Security: WPA2, WPA3
- The camera can store settings for up to eight networks. The camera will automatically connect to networks to which it has previously connected.
- Each new connection after the eighth overwrites settings for the connection that has been left unused for the longest period of time.
- Adding a network profile for an access point with the same MAC address as existing profile overwrites the settings for the existing profile.
- For information on using routers or access points, see the documentation provided with the device.
- Network profiles are not reset when you select [Initialize All Settings] for [Reset/Initialize Settings] (P.415). To reset network settings, use [Wi-Fi PC Settings] (P.448) > [Reset Wi-Fi PC Settings].

### **Enabling Camera Wi-Fi**

Before connecting to a network via Wi-Fi, you will need to enable Wi-Fi on the camera. If [Airplane Mode] (P.424) is set to [On], set it to [Off].

### **Connecting via WPS (Connect by WPS)**

Connect using the WPS feature on the router or access point.



- **1.** Highlight [**PC Connection**] using the  $\Delta \nabla$  buttons and press the **OK** button.
  - [PC Connection] options will be displayed.
- **2.** Highlight [Connect by WPS] using the  $\Delta \nabla$  buttons and press the OK button.
- **3.** Highlight an option using the  $\Delta \nabla$  buttons and press the **OK** button.
  - If you selected [PBC Method], press the WPS button on the router or access point.
  - Press the camera **OK** button to start the connection.
  - Some time may be required for connection after the button is pressed.
  - If you selected **[PIN Method]**, the camera will display a PIN; enter it on the router or access point. Press the camera **OK** button when the router is ready to connect.
- If the camera is able to connect, the network will be displayed with a check (✓) next to the network name.



- If the camera has been paired with more than one computer, you will be prompted to choose a computer before the network is displayed. Highlight the desired computer using the  $\Delta \nabla$  buttons and press the **OK** button.
- The camera can be used only with the selected computer. To select a different computer, you must first terminate the current connection.

- If the connection fails, the camera will display a message to that effect, followed by the options shown in Step 3. Remove and reinsert the memory card.
- **5.** Press the **OK** button to exit to the shooting display.
  - The camera will return to the standard shooting display. **\$** on the screen will turn green.



(((•))



### **Connecting Manually (Connect manually)**

Adjust network settings manually.

| Menu<br>• MENU → Y → 4. Wi-Fi/Bluetooth → Wi-Fi Connection |  |
|--|--|
|  |  |
| SSID   | The network name (SSID).   |
| Authentication   | The type of security used on the network.  |
| Password   | The password for connection to a secured network.  |
| IP Address Assign  | Choose whether the camera IP address is assigned automatically by the network DHCP server.                   |
| IP Address   | These fields are required when the IP address is assigned manually. The settings used vary with the network. |
| Subnet Mask  |  |
| Default Gateway  |  |
| DNS  |  |

- **1.** Highlight **[PC Connection]** using the  $\Delta \nabla$  buttons and press the **OK** button.
  - [PC Connection] options will be displayed.
- **2.** Highlight [Connect manually] using the  $\Delta \nabla$  buttons and press the **OK** button.

- **3.** Highlight options using the  $\Delta \nabla$  buttons and press the **OK** button.
  - Options for the selected item will be displayed.

| SSID              | Enter the network SSID.  |
|-------------------|--|
| Authentication    | Select the type of security used on the network. Choose from <b>[None]</b> , <b>[WPA2/WPA3]</b> and <b>[WPA3]</b> .  |
| Password          | If you selected <b>[WPA2/WPA3]</b> or <b>[WPA3]</b> for <b>[Authentication]</b> , enter the network password.  |
| IP Address Assign | Choose from <b>[Auto(DHCP)]</b> and <b>[Manual]</b> . Automatic IP address assignment requires a network with a DHCP server configured to supply IP addresses automatically. |
| IP Address        | These fields are required when <b>[Manual]</b> is selected for <b>[IP Address</b><br>Assign].  |
| Subnet Mask       |  |
| Default Gateway   |  |
| DNS               |  |

**4.** Highlight [Start Connection] using the  $\Delta \nabla$  buttons and press the **OK** button.

**5.** If the camera is able to connect, the network will be displayed with a check ( $\checkmark$ ) next to the network name.

- If the camera has been paired with more than one computer, you will be prompted to choose a computer before the network is displayed. Highlight the desired computer using the  $\Delta \nabla$  buttons and press the **OK** button.
- The camera can be used only with the selected computer. To select a different computer, you must first terminate the current connection.
- If the connection fails, the camera will display a message to that effect, followed by the options shown in Step 4. Remove and reinsert the memory card.

**6.** Press the **OK** button to exit to the shooting display.

• The camera will return to the standard shooting display. The screen will turn green.







# Choosing a Network from a List (Connect from (((p))) List)

The camera will search for available networks and display them in a list from which you can choose the network to which you wish to connect.



- MENU → 🅇 → 4. Wi-Fi/Bluetooth → Wi-Fi Connection
- **1.** Highlight **[PC Connection]** using the  $\Delta \nabla$  buttons and press the **OK** button.
  - [PC Connection] options will be displayed.
- **2.** Highlight [Connect from (()) List] using the  $\Delta \nabla$  buttons and press the OK button.
  - A list of available networks will be displayed.
- **3.** Highlight the desired network using the  $\Delta \nabla$  buttons and press the **OK** button.
  - If the network is password-protected, you will be prompted to enter a password. Enter the password and press the **OK** button.
  - Press the ▷ button to display **[Detail Settings]** for the highlighted network. You can enter an IP address and adjust other settings manually.
  - Press the <sup>()</sup> button to repeat the search and update the network list.
- **4.** If the camera is able to connect, the network will be displayed with a check (✓) next to the network name.
  - Password-protected networks are indicated by a 
     <sup>1</sup>
     icon.
  - If the camera has been paired with more than one computer, you will be prompted to choose a computer before the network is displayed. Highlight the desired computer using the  $\Delta \nabla$  buttons and press the **OK** button.
  - The camera can be used only with the selected computer. To select a different computer, you must first terminate the current connection.

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• If the connection fails, the camera will display a message to that effect, followed by the options shown in Step 3. Remove and reinsert the memory card.



- 5. Press the OK button to exit to the shooting display.
  - The camera will return to the standard shooting display. 🗢 on the screen will turn green.



#### Sconnecting to Previously-Selected Networks

- The camera will automatically reconnect to previously-selected networks when you select [PC Connection] via the **Select** icon. You will not be required to supply a password.
- If multiple networks are available, the camera will connect first to the most recently-used network.
- Once the camera has connected, it will display a list of available networks with the current network shown by a check mark (✓).
- To connect to a different network, highlight it in the list and press the **OK** button.
- If the camera has been paired with more than one computer on the network, you will be prompted to choose a computer before the network list is displayed. Highlight the desired computer using the  $\Delta \nabla$  buttons and press the **OK** button.

# Displaying the MAC address / Resetting Wi-Fi settings for PC connection (Wi-Fi PC Settings)

You can display the camera's MAC address for Wi-Fi connection and reset the Wi-Fi settings used for connection to a computer.

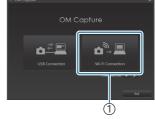
| Menu  |  |
|---|--|
| • MENU $\rightarrow$ ? $\rightarrow$ 4. Wi-Fi/Bluetooth $\rightarrow$ Wi-Fi PC Settings |  |

| Wi-Fi MAC Address       | Display the camera's MAC address for Wi-Fi connection.   |
|-------------------------|--|
| Reset Wi-Fi PC Settings | Delete the information about computers the camera has paired with and access points the camera has connected to. |

# **Uploading Pictures as They Are Taken**

Take pictures and upload them to a computer on the same network as the camera. You can take pictures using the controls on the camera body or while controlling the camera remotely from the computer. Before proceeding, connect the camera and computer as described in "Pairing the Computer with the Camera (New Link)" (P.439).

- Wi-Fi connections may experience slow communication speeds or unintentional disconnections from the computer or wireless device depending on the operated environment. We recommend that you check the operation in your environment before shooting important pictures. If Wi-Fi connection is interrupted, the data before upload will be discarded. Use the upload settings with which the transferred data will be saved on the memory card in the camera before upload.
- ① In order to connect to a computer, the shooting screen needs be displayed on the camera. After connecting to the network, return to the shooting screen.
  - **1.** Launch OM Capture on the destination computer.
    - If prompted to choose a connection type, click [Wi-Fi Connection].
    - The computer will display the message, [Camera connected] when the camera is detected.



①[Wi-Fi Connection]



• The camera will display the message when a connection is established.

- **2.** Configure OM Capture to automatically download pictures as they are taken.
  - Choose a destination for the downloaded pictures.
- **3.** Take pictures using camera or computer controls.
  - The pictures will be downloaded to the computer according to the options chosen.

See online help for more information on using the software.

- () The computer cannot be used to change the camera shooting mode.
- ① The frame rate on the camera display may drop if the view through the camera lens is displayed simultaneously both on the computer and in the camera monitor.
- The camera will upload only photos taken while the camera and computer are connected. Photos taken while the camera is disconnected from the computer will not be uploaded.
- S-While the camera is connected to a network:
  - Sleep mode is disabled
  - Interval-timer photography is not available
- [PC connection ended] options will be displayed when the camera's connection to the network ends. If you disconnect, any data that has not yet been uploaded will not be uploaded.
- Jf "OM Capture" displays the message [This application is unable to find a camera in the camera control mode.], check:
  - that the camera has been paired with the computer, and
  - that you selected the correct computer when connecting to the network.

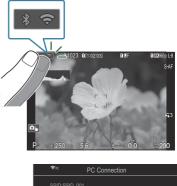
# **Ending the Connection**

End the Wi-Fi connection. The use of Wi-Fi may be prohibited in some countries or regions, in which case Wi-Fi should be disabled.

### **Ending the Current Connection**

1. Tap 📧 in the camera monitor.

- You will be prompted to confirm whether you wish to disconnect.
- The network SSID is shown in the display.





- **2.** Highlight [Disconnect] using  $\Delta \nabla$  and press the **OK** button.
  - The camera will terminate the connection and exit to the shooting display.
  - ⑦ The Wi-Fi connection will be disconnected even if there is data that has yet to be transferred. Any data that has not yet been uploaded will not be uploaded.
- **3.** To reconnect, tap **S** or select **[Wi-Fi Connection]** > **[PC Connection]** and press the **OK** button.
  - The camera will automatically reconnect to previously-selected networks.
- To connect to a new network, highlight [Maintain] in Step 2 and press the OK button. Choose from a list of available networks and adjust settings as described in "Choosing a Network from a List (Connect from ((()) List)" (P.447).

• If you turn the camera off while upload is in progress, you will be prompted to choose whether to power the camera down and terminate the Wi-Fi connection immediately or to power the camera down only after upload is complete.

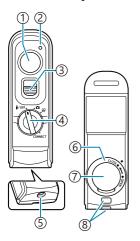
# **Disabling Wi-Fi/Bluetooth**<sup>®</sup>

Set [Airplane Mode] (P.424) to [On]. Wireless communication will be disabled.

# **Using the Remote Control**

# Names of parts

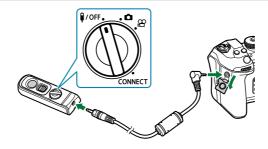
#### **RM-WR1** (optional)



- (1)Shutter button
- (2) Data transfer indicator
- ③Shutter button lock
- ④ Mode dial (**)/OFF** / **□** / **□** / **○** / **CONNECT**)
- (5) Cable connector
- (6) Battery-compartment lid
- (7) Battery compartment cover
- (8) Strap eyelet

# Connection

#### Wired connection



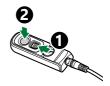
Rotate the mode dial of the remote control to *I/OFF* and connect the remote control to the camera via the supplied cable.

Photographs can be taken by pressing the shutter button.

Before recording movies, select [O **REC**] for [O **Shutter Function**]. V "Recording a movie by pressing the shutter button (O Shutter Function)" (P.345)

Ø Wireless remote control is not available while the cable is connected.

To enable the shutter button for bulb photography or the like, slide the shutter button lock up.



### **Wireless connection**

Start Pairing

For wireless connection, you must pair the camera and the remote control first.

| Menu<br>• MENU → Y → 4. Wi-Fi/Bluetooth → Wireless Shutter Setting |  |
|--|--|
| 6 D  | Follow the on-screen instructions. When pairing is complete, [Bluetooth] will be |

| Start Pairing  | set to <b>[On≯å]</b> .  |
|----------------|---|
| Delete Pairing | If you select <b>[Yes]</b> and press the <b>OK</b> button, the paired device will be deleted. |

- 1. Highlight [Start Pairing] and press the OK button.
- 2. When a message is displaying stating that pairing is in progress, rotate the mode dial on the remote control to **CONNECT** and keep it in this position.



- Pairing starts when it is kept 3 seconds. Keep it in the **CONNECT** position until pairing is complete. If you rotate the mode dial before it is complete, the data transfer indicator flashes rapidly.
- The data transfer indicator lights when pairing starts.

**3.** When a message indicating pairing is complete is displayed, press the **OK** button.



- The data transfer indicator goes out when pairing is complete.
- [Bluetooth] (P.428) will automatically be set to [On 1 when pairing is complete.
- ⑦ If you rotate the mode dial of the remote control or press the **MENU** button of the camera before the pairing completion message is displayed, the pairing process ends. Paired device information will be reset. Pair the devices again.
- ⑦ If you rotate the mode dial of a remote control that is not currently paired to CONNECT and keep it 3 seconds, or when pairing fails, the pairing information from previous connections will be reset. Pair the devices again.

#### **Deleting pairing**

- 1. Select [Delete Pairing] and press the OK button.
- 2. Select [Yes] and press the OK button.
- () When you have paired the camera with a remote control, you have to perform [Delete Pairing] to reset pairing information before you pair the camera with a new remote control.

#### Shooting from the remote control

## Shooting from the remote control

#### PASMB 🎛

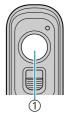
Before establishing a wireless connection between the camera and remote control, confirm that **[On**<sup>\*</sup><sup>1</sup>/<sub>2</sub>] is selected for **[Bluetooth]** (P.428). When set to **[On**<sup>\*</sup><sup>1</sup>/<sub>2</sub>], <sup>\*</sup><sup>1</sup>/<sub>2</sub> appears in the display and the camera will be on standby for wireless communication with the remote control as soon as it is turned on.

**1.** Rotate the mode dial of the remote control to  $\square$  or  $\square$ .

**2.** Press the shutter button on the remote control to take pictures.

- When the mode dial of the remote control is set to (still photography mode): When you lightly press the shutter button of the remote control down to the first position (press the shutter button halfway), the AF confirmation mark (•) will be displayed, and a green frame (AF target) will be displayed in the focus location.
- When the mode dial of the remote control is set to  $\mathfrak{A}$  (movie recording mode): When you press the shutter button of the remote control, movie recording starts. Press the shutter button of the remote control again to stop movie recording.







#### Data transfer indicator of the remote control

| Lights once                    | Remote control operation is sent to the camera correctly.   |
|--------------------------------|---|
| Flashes rapidly<br>(1 second)  | Remote control operation is not sent to the camera correctly. Shorten the distance between the camera and the remote control. If the problem is not solved, check the setting of the camera.  |
| Flashes rapidly<br>(3 seconds) | There is a problem regarding the pairing of the camera and remote control.<br>Pair the devices again.   |
| Does not light                 | <ul> <li>This may occur in the following situations.</li> <li>The battery in the remote control is dead.</li> <li>The mode dial of the remote control is in the <b>I/OFF</b> position.</li> <li>The camera and remote control are connected with a cable</li> </ul> |

② Even if [Bluetooth] (P.428) is set to [On \$ 1/2], you can connect the camera to a smartphone by starting [Device Connection] on the camera.
 However, you cannot control the camera from the remote control when it is connected to a smartphone.

(Pairing devices and remote shooting are not available when [Airplane Mode] (P.424) is [On].

- () The camera does not enter sleep mode when a remote control is connected wirelessly.
- ⑦ If you rotate the mode dial of the remote control to the **Ŷ/OFF** position, the camera enters sleep mode according to the setting of [Sleep] (P.411). The camera will not enter sleep mode when [On \$\$] is selected for [Bluetooth] (P.428) unless the mode dial on the remote control is in the **Ŷ/OFF** position.
- ② If you operate the remote control while the camera is in sleep mode, it may take a longer time for the camera to resume operation.
- ⑦ The camera cannot be controlled from the remote control while it is waking from sleep. Operate the remote control after the camera has resumed operation.
- ⑦ Rotate the mode dial of the remote control to the **I**/OFF position when you have finished using the remote control.

# MAC address of the remote control

The MAC address of the remote control is printed on the warranty card provided with the remote control.

## Precautions for using the remote control

- Do not tug on the battery-compartment cover or use it to turn the battery-compartment lid.
- Do not pierce batteries with sharp objects.
- Do not drop or swing the remote control while holding the cable.
- Moisture on the cable or remote control connectors could interfere with wireless control and render wired connections unreliable.
- Confirm that the battery-compartment lid is free of foreign matter before closing it.
- Rotate the mode dial to **IVFF** before connecting or disconnecting cables.

# **Connecting to Computers via USB**

# **Installing Software**

Install the following software to access the camera while it is connected directly to the computer via USB.

#### **OM Capture**

Use "OM Capture" to automatically download and view pictures as they are taken or control the camera remotely. To learn more or to download the software, visit our website. When downloading the software, be prepared to provide the camera serial number.

Follow the on-screen instructions to install the software. System requirements and installation instructions are available at our website.

#### **OM Workspace**

This computer application is used to download, view, and manage photos and movies recorded with the camera. When editing RAW data in the OM Workspace, high-speed processing using the camera engine has been enabled. It can also be used to update the camera firmware. The software can be downloaded from our website. When downloading the software, be prepared to provide the camera serial number.

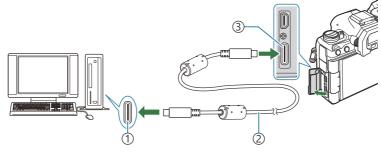
Follow the on-screen instructions to install the software. System requirements and installation instructions are available at our website.

# 



Connect the camera to a computer via USB to upload pictures as they are taken. You can take pictures using the controls on the camera body or while controlling the camera remotely from the computer.

- **1.** After confirming that the camera is off, connect it to the computer using the USB cable.
  - When attaching the USB cable, using an optional cable protector and cable clip helps prevent damage to the connectors and disconnection of the table. IF "Cable Clip (CC-1) / Cable Protector (CP-2)" (P.486)



1)USB port

2 USB cable (supplied)

③USB connector

- The locations of USB ports vary from computer to computer. See the documentation provided with the computer for information on USB ports.
- If the USB port on the computer is Type A port, use the optional CB-USB11 cable.
- **2.** Turn the camera on.
  - The camera will display a message prompting you to identify the device to which the USB cable is connected.

&-If the message is not displayed, select [Select] for [USB Mode] (P.405).

⑦ If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.

Uploading Pictures as They Are Taken (모r으RAW/Control)

**3.** Highlight [ $\Box$ J<sup> $\Box$ </sup>RAW/Control] using the  $\Delta \nabla$  buttons and press the **OK** button.

- **4.** Launch the copy of "OM Capture" installed on the computer.
  - When prompted to choose the connection type, click **[USB Connection]**.

- **5.** Configure OM Capture for download.
  - Choose a destination for the downloaded pictures.
- 6. Take pictures using camera or computer controls.
  - The pictures will be downloaded to the computer according to the options chosen.
  - See online help for more information on using the software.
- () The computer cannot be used to change the camera shooting mode.
- ⑦ The camera display frame rate may drop if the view through the camera lens is displayed simultaneously both on the computer and in the camera monitor.
- () The connection to the computer will end if you:
  - exit "OM Capture",
  - insert or remove memory cards, or
  - turn the camera off.



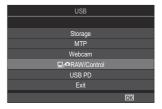
Storage MTP



# 

When you edit RAW data with the camera and computer connected, processing will be faster than when done with the computer only.

- **1.** After confirming that the camera is off, connect it to the computer using the USB cable.
- 2. Turn the camera on.
  - The camera will display a message prompting you to identify the device to which the USB cable is connected.
  - If the message is not displayed, select [Select] for [USB Mode] (P.405).
  - If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.
- **3.** Highlight [ $\Box$  r AW/Control] using the  $\Delta \nabla$  buttons and press the **OK** button.



- **4.** Launch the copy of OM Workspace installed on the computer.
- **5.** Choose the picture to be processed.
  - Only the pictures that were taken using the following cameras. OM-1 Mark II/OM-1 (as of January 2024)
  - You can not choose pictures on the SD card in the connected camera.
- **6.** Process RAW images.
  - Adjustments can be made to the shooting settings available on the camera and RAW pictures processed accordingly.
  - The processed copies will be saved in JPEG format.
  - USB RAW data editing is not available when two or more cameras are connected.
  - See online help for more information on using the software.

# Copying Pictures to the Computer (Storage/ MTP)

When connected to a computer, the camera can function as external storage in much the same way as a hard drive or other external storage device. Data can be copied from the camera to the computer.

- **1.** After confirming that the camera is off, connect it to the computer using the USB cable.
- 2. Turn the camera on.
  - The camera will display a message prompting you to identify the device to which the USB cable is connected.
  - If the message is not displayed, select [Select] for [USB Mode] (P.405).
  - If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.
- **3.** Highlight [Storage] or [MTP] using  $\Delta \nabla$  and press the OK button.

[Storage]: The camera functions as a card reader. [MTP]: The camera functions as a portable device.



- **4.** The camera will connect to the computer as a new storage device.
- ⑦ Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
  - Computers with a USB port added by means of an extension card, etc., computers without a factory-installed OS, or home-built computers
- () Camera functions cannot be used while the camera is connected to the computer.
- () If the computer fails to detect the camera, disconnect and reconnect the USB cable.
- () When [MTP] is selected, movies exceeding 4 GB cannot be copied to the computer.

## Using the Camera as a Webcam (Webcam)

The camera can be connected to a computer and used as a webcam for online meetings and live streaming. No additional drivers or applications are necessary. Video and audio data captured by the camera is streamed to the computer by simply connecting the two devices via USB (USB streaming).

- **1.** Check that the camera is turned off and rotate the mode dial to  $\mathfrak{A}$ .
- **2.** Connect the camera to the computer.
  - ⑦ The locations of USB ports vary from computer to computer. See the documentation provided with the computer for information on USB ports.
- **3.** Turn the camera on.

If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.

- **4.** Highlight **[Webcam]** using  $\Delta \nabla$  and press the **OK** button.
  - The camera will enter shooting mode.
  - The 🚭 icon will be displayed.
  - Adjust the brightness and focus by operating the camera.
- **5.** On the PC, launch the desired web conferencing or streaming service application. Select the model name of the connected camera in the device settings for the application.
  - Streaming of video and audio will begin.
  - Video will be streamed in [FHD] (1280×720) movie resolution.
  - When [Frame Rate] is set to [60p], [30p] or [24p] for [♀ � •], video is streamed at [30p]. When it is set to [50p] or [25p], video is streamed at [25p].

&-The camera can be used as a webcam even if no card is inserted.

& If an external microphone is connected, audio captured by the microphone will be streamed.

When [Yes] is selected for [Power Supply from USB], USB power is supplied to the camera from the PC while using it as a webcam.

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- Ø Video and audio cannot be streamed to the computer if:
  - an option other than  $\mathbf{A}$  is selected for shooting mode, or the playback screen or menu screen are being displayed.

Depending on the application you are using, performing these operations may temporarily disrupt video and audio streaming.

- () The following restrictions are in place while video and audio are being streamed to a computer.
  - Photography and movie recording are not available.
  - $\mathbf{\Omega}^{\mathbf{M}}$  Movie Quality settings cannot be configured.
  - [P226) is fixed at [Same as D].

② Exposure and other camera settings cannot be changed on the computer.

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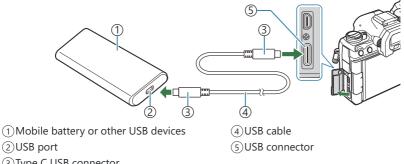
## Powering the Camera via USB (USB PD)

Mobile batteries or USB AC adapters conforming to the USB Power Delivery (USB PD) standard can be used to power the camera. The device must:

Standard: Conform to the USB Power Delivery (USB PD) standard

Output: Be rated for an output of 27 W (9 V 3 A, 15 V 2 A, or 15 V 3 A) or more

**1.** After confirming that the camera is off, use the USB cable to connect it to the device.



- ③Type C USB connector
- The method used for connection varies from device to device. See the documentation provided with the device for details.
- You may be unable to use USB Power Delivery (USB PD) with some USB devices. See the manual supplied with the USB device.
- **2.** Turn the camera on.
  - The camera will draw power from the connected USB device.
  - If the camera displays a message prompting you to identify the device to which the USB cable is connected, select **[USB PD]**.
  - If the batteries are very low, the display will remain blank when the camera is connected to the USB device. Be sure the batteries are charged.
  - USB 🗘 is displayed while the camera draws power from the USB device.

# **Connecting to TVs or External Displays via HDMI**

## Connecting the Camera to TVs or External Displays (HDMI)

Pictures can be displayed on televisions connected to the camera via HDMI. Use the television to display pictures to an audience. The TV remote can be used to control the display while the television is connected to the camera. No app or other software is required.



You can also film movies while the camera is connected to an external monitor or video recorder via HDMI.

- HDMI cables are available from third-party suppliers. Use an HDMI-certified cable.

## Viewing Pictures on a TV (HDMI)

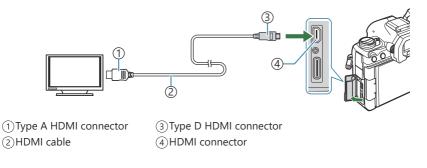
Photos and movies can be viewed on a high-definition TV connected directly to the camera by means of an HDMI cable.

For information on output signal setting, see "External Monitor Display Options (HDMI Settings)" (P.404).

### Connecting the Camera to a TV

Connect the camera using an HDMI cable.

- **1.** After confirming that the camera is off, connect it to the TV using an HDMI cable.
  - When attaching the HDMI cable, using an optional cable protector and cable clip helps prevent damage to the connectors and disconnection of the table. I "Cable Clip (CC-1) / Cable Protector (CP-2)" (P.486)



- **2.** Switch the TV to HDMI input and turn the camera on.
  - The TV will show the content on the camera monitor. Press the 🕨 button to view pictures.
- () For information on switching to HDMI input, see the manual provided with the TV.
- Depending on TV settings, the image may be cropped and some indicators may not be visible.
- () HDMI cannot be used while the camera is connected to a computer via USB.
- If [Record] is selected for [HDMI Output] (P.285) > [Output Mode], the signal will be output at the current movie frame size. No image will be displayed if the TV does not support the selected frame size.
- () If [4K] or [C4K] is selected, 1080p priority format will be used during still photography.

## Cautions

## Information about Dust and Water-resistant Features

- This camera has a water-resistant specification of IPX3 (when used in combination with an IPX3 or higher water-resistant lens supplied by our company).
- This camera has a dust resistant specification of IP5X (under our company's test conditions).

### Precautions

- Dust and water-resistant capabilities may be lost when the camera is subjected to shock.
- Check the following parts for foreign material including dirt, dust or sand: packing parts of the battery compartment cover, card compartment cover, connector covers, and the parts that come in contact with them, and the parts that come in contact when attaching the lens and accessories. Wipe off foreign material with a clean cloth that does not produce textile waste.
- To ensure dust and water-resistant capabilities, close the covers firmly and attach the lens before use.
- Do not operate the camera, open/close the covers, or attach/remove the lens when they are wet.
- Water-resistant feature is ensured only when compatible lenses/accessories are attached. Check the compatibility.

For compatible accessories, visit our website.

### Maintenance

- Wipe off water thoroughly with a dry cloth.
- Remove foreign materials such as dirt, dust, or sand thoroughly.

## Batteries

- The camera uses our lithium-ion battery. Never use any battery other than our genuine batteries.
- The camera's power consumption varies widely with usage and other conditions.
- As the following consume a lot of power even without shooting, the battery will be drained quickly.
  - Performing auto focus repeatedly by pressing the shutter button halfway in shooting mode.
  - Displaying images on the monitor for a prolonged period.
  - When connected to a computer (except when powering the camera via USB).
  - Leaving wireless LAN/Bluetooth<sup>®</sup> enabled.
- When using a drained battery, the camera may turn off without the low battery warning being displayed.
- The battery will not be fully charged at the time of purchase. Charge the battery before use.
- Remove the batteries before putting the camera into storage for periods of a month or more. Leaving the batteries in the camera for extended periods shortens their lives, potentially rendering them unusable.
- The normal charging time using the USB-AC adapter is approximately 2 hours 30 minutes (estimated).
- Do not use USB-AC adapters or chargers not specifically designated for use with batteries of the supplied type. Similarly, do not use the USB-AC adapter with batteries (cameras) other than those of the designated type.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions under "A CAUTION" (P.561) in the instruction manual.

## Using your USB-AC adapter abroad

- The USB-AC adapter can be used in most home electrical sources within the range of 100 V to 240 V AC (50/60 Hz) around the world. However, depending on the country or area you are in, the AC wall outlet may be shaped differently and the USB-AC adapter may require a plug adapter to match the wall outlet.
- Do not use third-party travel adapters as the USB-AC adapter may malfunction.

## Information

## Interchangeable lenses

Choose a lens according to the scene and your creative intent. Use lenses designed exclusively for the Micro Four Thirds system and bearing the M.ZUIKO DIGITAL label or the symbol shown. With an adapter, you can also use Four Thirds System lenses. The optional adapter is required.



- When you attach or remove the body cap and lens from the camera, keep the lens mount on the camera pointed downward. This helps prevent dust and other foreign matter from getting inside the camera.
- Do not remove the body cap or attach the lens in dusty places.
- Do not point the lens attached to the camera toward the sun. This may cause the camera to malfunction or even ignite due to the magnifying effect of sunlight focusing through the lens.
- Be careful not to lose the body cap and rear cap.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached.

#### Lens and camera combinations

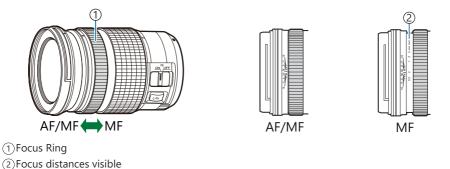
| Lens                             | Camera                             | Attachment                             | AF               | Metering |
|----------------------------------|------------------------------------|--|------------------|----------|
| Micro Four Thirds<br>system lens | Micro Four Thirds system<br>camera | Yes                                    | Yes              | Yes      |
| Four Thirds system lens          |                                    | Attachment possible with mount adapter | Yes <sup>1</sup> | Yes      |

1 Not available during enlarged display, movie recording or starry sky AF.

## **MF Clutch Lenses**

The "MF clutch" (manual focus clutch) mechanism on MF clutch lenses can be used to switch between auto and manual focus simply by repositioning the focus ring.

- Check the position of the MF clutch before shooting.
- Sliding the focus ring to the AF/MF position at the end of the lens selects autofocus, while sliding it to the MF position closer to the camera body selects manual focus, regardless of the focus mode chosen with the camera.



② Selecting [Inoperative] for [MF Clutch] (P.149) disables manual focus even when the MF clutch is in the MF position.

# Monitor display when using a lens equipped with the SET/CALL function

The camera monitor displays "• Set" when the focus position is saved using the SET option and "• Call" when a saved focus position is restored using the CALL option.

For more information on SET and CALL, see the lens manual.



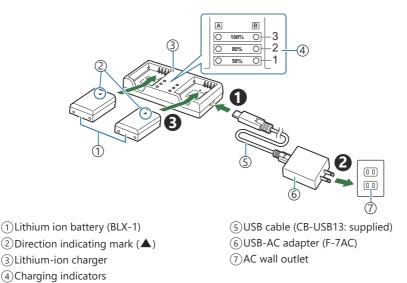


## **Optional Accessories**

## Using the charger (BCX-1)

Two batteries can be inserted. It can also be used with only one battery inserted.

**1.** Charge the battery.



• Charging time is approximately 2 hours 30 minutes. See the table below for status of the charging indicators and battery charge.

Charging time does not change even when you charge two batteries at the same time.

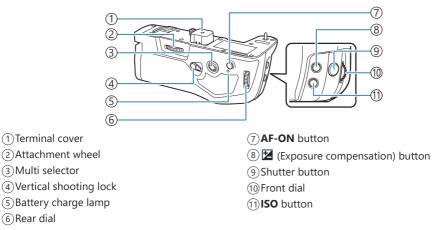
| Charging indicator                                | Battery charge                  |
|---|---------------------------------|
| Indicator 1: Blinks                               | Charging (less than 50%)        |
| Indicator 1: Lights up; Indicator 2: Blinks       | Charging (between 50% and 80%)  |
| Indicators 1 and 2: Light up; Indicator 3: Blinks | Charging (between 80% and 100%) |
| All indicators: Unlit                             | Charging complete               |
| All indicators: Blinking                          | Charging error                  |

## **HLD-10 Power Battery Holder**

An optional HLD-10 battery holder can be used to power the camera for extended periods.

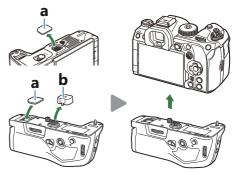
(2) Make sure to turn the camera off when attaching and removing the holder.

#### Part names



#### Attaching the holder

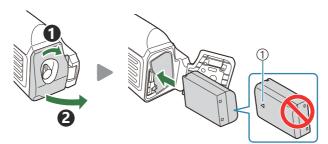
Remove the power battery holder (PBH) cover (a) on the bottom of the camera and the terminal cover (b) of HLD-10 before attaching the HLD-10. Once attached, make sure the HLD-10 removal knob is tightly secured. When not using the HLD-10, make sure to attach the power battery holder (PBH) cover to the camera and the terminal cover to the HLD-10.



Store the Power battery holder (PBH) cover (a) in the HLD-10.

#### Inserting the battery

Use BLX-1 battery. Once you load the battery, make sure to lock the battery cover.



① Direction indicating mark

The monitor battery-level indicator (P.39) shows "PBH" when the camera is powered by the battery in the HLD-10.



#### Charging the battery in the power battery holder

To charge the battery in the power battery holder, load a battery in the holder and attach the holder to the camera; charge the battery in the same way as described in "Charging the Battery using the USB-AC adapter" (P.30).

The charge lamp of the holder lights during charging.

#### Using the buttons

Slide the vertical shooting lock of the HLD-10 in the direction of the arrow.

The roles performed by the 🔀 (Exposure compensation) button, **ISO** button and **AF-ON** button on the HLD-10 can be selected using the **[Button Function]** item. **ISO** "Changing the roles of buttons (Button Settings)" (P.334)

@Buttons on the HLD-10 cannot be used when the vertical shooting lock is in the LOCK position.



## Notes on using this product

- Use only the designated battery. Failure to do so could result in injury, damage to the product, and fire.
- Do not use your nail to turn the attachment wheel. Doing so could result in injury.
- Only use the camera within the guaranteed operating temperature range.
- Do not use or store the product in dusty or humid areas.
- Do not touch the electrical contacts.
- Use a dry, soft cloth to clean the terminals. Do not clean the product with a damp cloth, thinner, benzine, or any other organic solvents.
- Remove the batteries from the camera and power battery holder before putting the camera into storage for periods of a month or more. Leaving the batteries in the camera for extended periods shortens their lives, potentially rendering them unusable.

## **Designated External Flash Units**

When using an optional flash unit designed for use with the camera, you can choose the flash mode using camera controls and take pictures with the flash. See the documentation provided with the flash unit for information on flash features and their use.

Choose a flash unit to suit your needs, taking into consideration such factors as the output required and whether the unit supports macro photography. Flash units designed to communicate with the camera support a variety of flash modes, including TTL auto and super FP. Flash units can be mounted on the camera hot shoe or connected using a cable (available separately) and flash bracket. The camera also supports these wireless flash control systems:

# Radio-Controlled Flash Photography: CMD, **\$**CMD, RCV, and X-RCV Modes

The camera controls one or more remote flash units by means of radio signals. The range of locations in which flash units can be placed increases. Flash units can control other compatible units or be fitted with radio commander/receivers to allow the use of units that do not otherwise support radio flash control.

#### Wireless Remote-Control Flash Photography: RC Mode

The camera controls one or more remote flash units by means of optical signals. The flash mode can be selected using camera controls (P.482).

#### Features Available with Compatible Flash Units

#### FL-700WR

| Flash control mode            | TTL-AUTO, MANUAL, FP TTL AUTO, FP MANUAL, MULTI, RC, SL<br>MANUAL |
|-------------------------------|---|
| GN (Guide Number,<br>ISO 100) | GN 42 (75/150 mm <sup>1</sup> )<br>GN 21 (12/24 mm <sup>1</sup> ) |
| Supported wireless<br>systems | CMD, <b>\$</b> CMD, RCV, X-RCV, RC                                |

#### FL-900R

| Flash control mode            | TTL-AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL, MULTI, RC,<br>SL AUTO, SL MANUAL |
|-------------------------------|--|
| GN (Guide Number,<br>ISO 100) | GN 58 (100/200 mm <sup>1</sup> )<br>GN 27 (12/24 mm <sup>1</sup> )               |
| Supported wireless<br>systems | RC   |

#### STF-8

| Flash control mode            | TTL-AUTO, MANUAL, RC <sup>2</sup> |
|-------------------------------|-----------------------------------|
| GN (Guide Number,<br>ISO 100) | GN8.5                             |
| Supported wireless<br>systems | RC <sup>2</sup>                   |

#### FL-LM3

| Flash control mode            | Varies with camera settings.    |
|-------------------------------|---------------------------------|
| GN (Guide Number,<br>ISO 100) | GN 9.1 (12/24 mm <sup>1</sup> ) |
| Supported wireless<br>systems | RC <sup>2</sup>                 |

- 1 Maximum lens focal length at which the unit can provide flash coverage (figures following slashes are 35 mm format equivalent focal lengths).
- 2 Functions as commander (transmitter) only.

### Wireless remote control flash photography

Wireless flash photography is available with compatible flash units that support wireless remote control (RC). The remote flash units are controlled via a unit mounted on the camera hot shoe. Settings can be adjusted separately for the units in up to three other groups.

RC mode must be enabled on both the master and remote flash units (P.480).

#### Configuring RC mode

- **1.** Select **[On]** for **[‡ RC Mode]** (P.185) and press the **OK** button.
  - The camera will exit to the shooting display.
  - "RC" appears on the screen.



PASMB

#### 2. Press the OK button.

• The RC mode super control panel will be displayed.

|                     | 5 with                     | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | a source         |
|---------------------|----------------------------|---|------------------|
| A Mode              |                            |   | RC               |
| Р                   | 1/250                      | ⊧5.6                                    | ISO<br>Auto 200  |
| ( 😐 )Small          | īntutu <mark>l</mark> atut | i ±0.0 ⊠                                | * 🗢              |
| <b>*</b> 3          | WB Auto                    |   | *                |
| °¶ <sub>A</sub> TTL | ±0.0                       | \$                                      | 512 ±0.0         |
| *⁰ <sub>B</sub> Off |                            | i <b>q</b> i Low                        | Ch1              |
| *⁰c Off             |                            | ö \$                                    | 11:02:03<br>1023 |

• The standard LV super control panel can be displayed by pressing the **INFO** button. The display will change each time the **INFO** button is pressed.

#### **3.** Adjust flash settings.

• Highlight items using the  $\Delta \nabla \triangleleft \triangleright$  buttons and rotate the front dial to choose settings.



- ①Group, flash control mode
- ②Flash compensation
- ③Optical signal strength
- (4) Channel
- 5 Flash mode

| Group                      | Choose a group. Changes to settings apply to all units in the selected group. The unit mounted on the camera works as a member of Group A.  |
|----------------------------|---|
| Flash control mode         | Choose a flash mode.  |
| Flash compensation         | Adjust flash output. When [Manual] is selected for flash mode, you can choose a value for manual flash output.  |
| Optical signal<br>strength | Choose the brightness of the optical control signals emitted by the flash units. Choose <b>[High]</b> if you have placed flash units close to the maximum distance from the camera. This setting applies to all groups. |
| Flash mode/output          | Choose <b>\$</b> (standard) or FP (super FP). Choose super FP for shutter speeds faster than the flash sync speed. This setting applies to all groups.  |
| Channel                    | Choose the channel used for flash control. Change the channel if you find that other light sources in the area are interfering with remote flash control.   |

- **4.** Set the unit mounted on the camera to **[TTL AUTO]**.
  - Flash control settings for the FL-LM3 can only be adjusted using the camera.

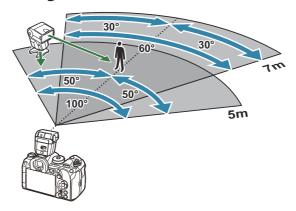
#### Setting up the flash

- **1.** Set the remote flash units to RC mode.
  - Turn the external flash units on, press the MODE button, and select RC mode.
  - Set up the group to control with the dedicated external flash and configure their communication channels so that they match the camera settings.
- 2. Arrange the flash units.
  - Position the wireless units with the remote sensors facing the camera.
- **3.** Take pictures after confirming that the camera and flash units are charged.

#### Wireless Flash Control Range

The illustration is intended as a guide only. The flash control range varies with the type of flash mounted on the camera and the conditions in the surrounding area.

#### Flash Control Range for Camera-Mounted FL-LM3 Flash Units



- We recommend that each group contain no more than 3 flash units.
- Wireless flash photography is not available in anti-shock mode or in rear-curtain slow sync mode when a shutter speed slower than 4 s is selected.
- Waiting times longer than 4 s cannot be selected in anti-shock and silent modes.
- Flash control signals may interfere with exposure if the subject is too close to the camera. This can be mitigated by reducing the brightness of the camera flash, for example by using a diffuser.

## Other external flash units

Third-party flash units can be mounted on the hot shoe or connected via a sync cable. Be sure to replace the cap on the external flash connector when it is not in use.

Note the following when using a third-party flash unit mounted on the camera hot shoe:

- Using obsolete flash units that apply currents of more than about 250 V to the X-contact will damage the camera.
- Connecting flash units with signal contacts that do not conform to our specifications may damage the camera.
- Select mode **M**, choose a shutter speed no faster than the flash sync speed, and set [DISO] to a setting other than [Auto].
- Flash control can only be performed by manually setting the flash to the ISO sensitivity and aperture values selected with the camera. Flash brightness can be adjusted by adjusting either ISO sensitivity or aperture.
- Use a flash with an angle of illumination suited to the lens. Angle of illumination is usually expressed using 35-mm format equivalent focal lengths.

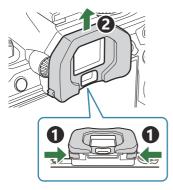
## **Principal Accessories**

#### Converter lenses

Converter lenses attach to the camera lens for quick and easy fish-eye or macro photography. See our website for information on the lenses that can be used.



#### Removal

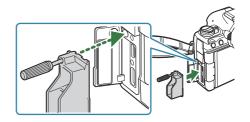


Push both levers inward and lift the eyecup.

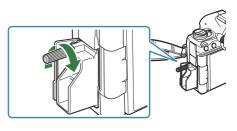
#### Cable Clip (CC-1) / Cable Protector (CP-2)

When attaching the USB cable, using an optional cable protector and cable clip helps prevent damage to the connectors and disconnection of the table.

**1.** Mount the cable protector on the camera.



**2.** Tighten the screw.



2

**3.** Clip the cable clip to the cable and attach the clip to the strap.

• The clip attaches to the buckle.

## Accessories

For the latest information, please visit our website.

#### **Power supply**



Lithium-ion battery BLX-1

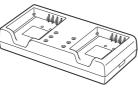


Power Battery Holder HLD-10

#### Viewfinder



Eyecup



Lithium-ion charger BCX-1



USB-AC adapter F-7AC

#### **Remote control/release**



### Cable clip/cable protector



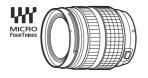
Cable clip CC-1



Cable protector **CP-2** 

#### Lens

#### **Micro Four Thirds system lenses**



#### Four Thirds system lenses



- An MMF-2 or MMF-3 Four Thirds Adapter is required to use Four Thirds System lenses with this camera.
- There are restrictions on the lenses that can be used with the adapter. For more information, visit our website.



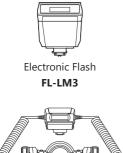
#### **Converter lenses**

- MC-20 (Teleconverter)
- MC-14 (Teleconverter)

- FCON-P01 (Fisheye converter)
- MCON-P02 (Macro converter)

Visit our website for information on compatible lenses.

#### Flash Mode





**FL-900R** 



Electronic Flash FL-700WR

Macro Flash STF-8

Wireless Radiowave Commander FC-WR



FR-WR

Case/Strap

- Camera Case
- Shoulder Strap

#### **Connection Cable**

- USB Cable
- HDMI Cable (HDMI cables are available from third-party suppliers.)

#### **Memory Card**

- SD
- SDHC
- SDXC

Memory cards are available from third-party suppliers.

#### Headphone/Microphone

Headphones and microphones are available from third-party suppliers.

#### Software

Photo management/editing software for computers

#### OM Workspace

Camera control software for computers

OM Capture

Smartphone app

OM Image Share

## Cleaning and storing the camera

## **Cleaning the camera**

Turn off the camera and remove the battery before cleaning the camera.

• Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.

#### **Exterior**:

• Wipe gently with a soft cloth. If the camera is very dirty, soak the cloth in mild soapy water and wring well. Wipe the camera with the damp cloth and then dry it with a dry cloth. If you have used the camera at the beach, use a cloth soaked in clean water and well wrung.

#### **Monitor:**

• Wipe gently with a soft cloth.

#### Lens:

• Blow dust off the lens with a commercially available blower. For the lens, wipe gently with a lens cleaning paper.

### Storage

- When not using the camera for a prolonged period, remove the battery and card. Store the camera in a cool, dry place that is well ventilated.
- Insert the battery periodically and test the camera's functions.
- Remove dust and other foreign matter from the body and rear caps before attaching them.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached. Be sure to replace the front and rear lens caps before putting the lens away.
- Clean the camera after use.
- Do not store the camera with insect repellent.
- Avoid storing the camera in places where chemicals are treated, in order to protect the camera from corrosion.
- Mold may form on the lens surface if the lens is left dirty.
- Check each part of the camera before use if it has not been used for a long time. Before taking important pictures, such as during trips overseas, be sure to take a test shot and check that the camera works properly.

## **Inspecting and Cleaning the Image Sensor**

This camera incorporates a dust reduction function to keep dust from getting on the image sensor and to remove any dust or dirt from the image sensor surface with ultrasonic vibrations. The dust reduction function operates when the camera is turned on. The dust reduction function operates at the same time as the pixel mapping, which checks the image sensor and image processing circuitry. Since dust reduction is activated every time the camera's power is turned on, the camera should be held upright for the dust reduction function to be effective.

### **Pixel Mapping - Checking the image processing functions**

Check the image sensor and image processing functions simultaneously. For best results, wait at least a minute after shooting and playback have ended before performing pixel mapping.

- 1. Select [Pixel Mapping] (P.419).
- 2. Select [Yes] and press the OK button.
  - The **[Busy]** bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.
- If you accidentally turn the camera off during pixel mapping, start again from Step 1.

## Shooting tips and information

# The camera does not turn on even when a battery is loaded

#### The battery is not fully charged

• Charge the battery using a USB-AC adapter or battery charger.

# The battery is temporarily unable to function because of the cold

• Battery performance drops at low temperatures. Remove the battery and warm it by putting it in your pocket for a while.

# A dialog prompting you to choose a language is displayed

- The dialog is displayed in the following situations.
  - The camera is turned on for the first time.
  - You have not chosen a language.



See "Initial setup" (P.41) for information on choosing a language.

# No picture is taken when the shutter button is pressed

#### The camera has turned off automatically

- If [On] is selected for [Quick Sleep Mode], the camera will enter sleep mode if no operations are performed for a set period. Press the shutter button halfway to exit the sleep mode. If [Quick Sleep Mode] (P.413)
- The camera automatically enters sleep mode to reduce the drain on the battery if no operations are performed for a set period of time. [Sleep] (P411)

• If no operations are performed for a set time after the camera has entered sleep mode, the camera will turn off automatically. [3] [Auto Power Off] (P.412)

#### The flash is charging

• On the monitor, the **\$** mark blinks when charging is in progress. Wait for the blinking to stop, then press the shutter button.

#### Unable to focus

The camera cannot focus on subjects that are too close to the camera or that are not suited to
autofocus (the AF confirmation mark will blink in the monitor). Increase the distance to the subject
or focus on a high contrast object at the same distance from the camera as your main subject,
compose the shot, and shoot.

#### Subjects that are difficult to focus on

It may be difficult to focus with auto focus in the following situations.

- AF confirmation mark is blinking.

The camera will not be able to focus on the following.



Subjects with low contrast Index



Excessively bright light in center of frame

- AF confirmation mark lights up but the subject is not in focus.



Subjects at different distances



Fast-moving subject



Subjects not inside AF area

#### Noise reduction is activated

• When shooting night scenes, shutter speeds are slower and noise tends to appear in images. The camera activates the noise-reduction process after shooting at slow shutter speeds, during which shooting is not possible. You can set [Noise Reduction] to [Off]. [3] [Noise Reduction] (P.174)

### The number of AF targets is reduced

• The size and number of available AF targets vary with group target settings (P.106) and the options chosen for [Digital Tele-converter] (P.259), [Aspect] (P.218), drive settings (P.190), and [PImage Stabilizer] (P.204).

### The date and time has not been set

#### The camera is used with the settings at the time of purchase

• The date and time of the camera is not set when purchased. Set the date and time before using the camera. I "Initial setup" (P.41)

#### The battery has been removed from the camera

• The date and time settings will be returned to the factory default settings if the camera is left without the battery for approximately 1 day (in-house measurements). The settings will be canceled more quickly if the battery was only loaded in the camera for a short time before being removed. Before taking important pictures, check that the date and time settings are correct.

# Set functions are restored to their factory default settings

Settings altered in custom modes (C-C4) are reset to saved values when the mode dial is rotated to another setting or the camera is turned off. If [Hold] is selected for [Save Settings] when a custom mode is selected, changes to settings will automatically be saved to the selected mode.
 "Saving the Changes Made to Settings while in Custom Modes" (P.77)

#### Pictures are "washed out"

• This may occur when the picture is taken in backlight or semi-backlight conditions. This is due to a phenomenon called flare or ghosting. As far as possible, consider a composition where strong light source is not taken in the picture. Flare may occur even when a light source is not present in the picture. Use a lens hood to shade the lens from the light source. If a lens hood does not have effect, use your hand to shade the lens from the light.

# Unknown bright dot(s) appear on the subject in the picture taken

• This may be due to the dead pixel(s) on the image sensor. Perform **[Pixel Mapping]**. If the problem persists, repeat pixel mapping a few times. **I** "Pixel Mapping - Checking the image processing functions" (P494)

### Functions that cannot be selected from menus

When you open the menu, items that cannot be set are displayed in gray. When you press the OK button while a gray item is highlighted, the reason it is not available is displayed. Refer to the on-screen instructions and check the settings. I "Items shown in gray" (P.99)

# Functions that cannot be set from the super control panel

• Some functions may be unavailable depending on the current shooting settings. Check if the same function is displayed in gray in the menus.

### The subject appears distorted

- The following functions use an electronic shutter:
  - Movie Recording (P.78) / Silent Mode (P.198) / Pro Capture Shooting (P.200) / High Res Shot (P.239) / Focus Bracketing (P.278) / Focus Stacking (P.250) / Live ND Shooting (P.243) / Live GND Shooting (P.246) / HDR (P.253)

This may cause distortion if the subject is moving rapidly or the camera is moved abruptly. Avoid moving the camera abruptly during shooting, or use standard sequential shooting.

#### Lines appear in photographs

- The following functions use an electronic shutter, which may result in lines due to flicker and other phenomena associated with fluorescent and LED lighting:
  - Movie Recording (P.78) / Silent Mode (P.198) / Pro Capture Shooting (P.200) / High Res Shot (P.239) / Focus Bracketing (P.278) / Focus Stacking (P.250) / Live ND Shooting (P.243) / Live GND Shooting (P.246) / HDR (P.253)

Flicker can be reduced by choosing slower shutter speeds. You can also reduce flicker using flicker scan. [2] [C] Flicker Scan] (P.157), [C] Flicker Scan] (P.157)

# Only the subject is displayed and no information is shown

• The display has been switched to "Image Only". Press the **INFO** button and switch to another display mode. **I** "Switching the information display" (P.49)

# Focus mode cannot be changed from MF (manual focus)

• The lens you are using may be equipped with the MF clutch mechanism. In this case, manual focus is selected when the focus ring is slid to the camera body side. Check the lens. IF "MF Clutch Lenses" (P.475)

### Nothing is displayed on the monitor

• When something, e.g. your face, hand or strap, comes close to the viewfinder, the monitor turns off and the viewfinder turns on. I "Switching between displays" (P.47)

## Error codes

| Monitor indication | Possible cause/Corrective action  |
|--------------------|---|
| No Card            | <b>The card is not inserted, or it cannot be recognized.</b><br>Insert a card. Or reinsert the card properly.   |
| Card Error         | <b>There is a problem with the memory card in Slot 1.</b><br>Remove and reinsert the memory card. If this does not solve the problem, format the card. If formatting fails, the card cannot be used.  |
| Card Error         | <b>There is a problem with the memory card in Slot 2.</b><br>Remove and reinsert the memory card. If this does not solve the problem, format the card. If formatting fails, the card cannot be used.  |
| 1 Write Protect    | <b>The memory card in Slot 1 is write-protected ("locked").</b><br>The memory card write-protect switch is in the "LOCK" position. Return the switch to the unlocked position (P.34).   |
| 2)Write Protect    | <b>The memory card in Slot 2 is write-protected ("locked").</b><br>The memory card write-protect switch is in the "LOCK" position. Return the switch to the unlocked position (P.34).   |
| 1 Card Full        | <ul> <li>Shooting disabled; the memory card in Slot 1 is full.</li> <li>Insert another memory or delete pictures.</li> <li>Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.</li> <li>Choose a different option in [C Card Slot Settings] (P.388).</li> </ul> |
| 2 Card Full        | <ul> <li>Shooting disabled; the memory card in Slot 2 is full.</li> <li>Insert another memory or delete pictures.</li> <li>Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.</li> <li>Choose a different option in [Card Slot Settings] (P.388).</li> </ul>   |

| Monitor indication | Possible cause/Corrective action  |
|--------------------|---|
| Card Full          | <ul> <li>There is not enough space on the memory card to record additional pictures.</li> <li>Insert another memory or delete pictures.</li> <li>Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.</li> <li>Choose a different option in [Card Slot Settings] (P.388).</li> </ul> |
| Card Full          | <ul> <li>There is not enough space on the memory card to record additional pictures.</li> <li>Insert another memory or delete pictures.</li> <li>Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.</li> <li>Choose a different option in [Card Slot Settings] (P.388).</li> </ul> |
| 1 No Picture       | <b>Playback unavailable; the memory card in Slot 1 contains no pictures.</b><br>The selected memory card contains no pictures.<br>Take pictures before choosing playback mode.  |
| 2 No Picture       | <b>Playback unavailable; the memory card in Slot 2 contains no pictures.</b><br>The selected memory card contains no pictures.<br>Take pictures before choosing playback mode.  |
| Picture Error      | The selected file is damaged and cannot be played back. Alternatively, the picture is in a format that is not supported by the camera.  |
| 2 Picture Error    | View the picture using computer imaging software or the like.<br>If the picture cannot be displayed on a computer, the file may be corrupt.   |

| Monitor indication  | Possible cause/Corrective action  |  |
|---|---|--|
| The Image<br>Cannot Be Edited   | <b>Camera retouch features cannot be applied to pictures recorded with other devices.</b><br>Retouch the picture on a computer or other devices.  |  |
| The Image<br>Cannot Be Edited   |   |  |
| Y/M/D   | The clock is not set.<br>Set the clock (P.416).   |  |
| 🚹 Heat  | The internal temperature of the camera has risen due to sequential shooting.<br>Turn off the camera and wait for the internal temperature to cool.  |  |
| Internal camera<br>temperature is too<br>high. Please wait<br>for cooling before<br>camera use. | The internal temperature of the camera has risen due to sequential shooting.<br>Wait a moment for the camera to turn off automatically.<br>Allow the internal temperature of the camera to cool before resuming operations. |  |
| Battery Empty   | <b>The battery is drained.</b><br>Charge the battery.   |  |
| No Connection   | The camera is not correctly connected to a computer, HDMI display, or other devices.<br>Reconnect the camera.   |  |
| The lens is locked.<br>Please extend the<br>lens.   | The lens of the retractable lens remains retracted.<br>Extend the lens.   |  |

| Monitor indication                 | Possible cause/Corrective action   |
|------------------------------------|--|
| Please check the status of a lens. | An abnormality has occurred between the camera and the lens.<br>Turn off the camera, check the connection with the lens, and turn the power<br>on again. |

## Specifications

### Camera

| Product type                                   |  |
|--|--|
| Product type                                   | Digital camera with interchangeable Micro Four Thirds Standard lens system |
| Lens   | M.ZUIKO DIGITAL, Micro Four Thirds System Lens                             |
| Lens mount                                     | Micro Four Thirds mount  |
| Equivalent focal length on a 35 mm film camera | Approx. twice the focal length of the lens                                 |
| Image sensor                                   |  |
| Product type                                   | 4/3" Live MOS sensor   |
| Total no. of pixels                            | Approx. 22.93 million pixels   |
| No. of effective pixels                        | Approx. 20.37 million pixels   |
| Screen size                                    | 17.4 mm (H) × 13.0 mm (V)  |
| Aspect ratio                                   | 1.33 (4:3)   |
| Viewfinder                                     |  |
| Туре   | Electronic viewfinder with eye sensor                                      |
| No. of pixels                                  | Approx. 5.76 million dots  |
| Magnification                                  | 100%   |
| Eye point                                      | Approx. 21 mm (-1 m <sup>-1</sup> )  |

| Live view                   |   |
|-----------------------------|---|
| Sensor                      | Uses Live MOS sensor  |
| Magnification               | 100%  |
| Monitor                     |   |
| Product type                | 3.0" TFT color LCD, Vari-angle, touch screen  |
| Total no. of pixels         | Approx. 1.62 million dots (aspect ratio 3:2)  |
| Shutter                     |   |
| Product type                | Computerized focal-plane shutter  |
| Shutter Speed               | 1/8000 – 60 sec., bulb photography, time photography  |
| Flash sync speed            | 1/250 s or slower   |
| Auto focus                  |   |
| Product type                | Hi-Speed Imager AF  |
| Focusing points             | 1053 points   |
| Selection of focusing point | Auto, Optional  |
| Exposure control            |   |
| Metering system             | TTL metering system (imager metering)<br>Digital ESP metering/Center weighted averaging metering/Spot<br>metering   |
| Metered range               | -2 to 20 EV (f/2.8, ISO 100 equivalent)   |
| Shooting Mode               | P: Program AE (program shift available); A: Aperture priority<br>AE; S: Shutter-priority AE; M: Manual; B: Bulb (bulb, time, and<br>composite); C1–C4: Custom Modes; ≌: Movie |
| ISO                         | L80; L100; 200 – 102400 in steps of 1/3 or 1 EV   |
| Exposure Comp.              | ±5.0 EV (1/3, 1/2, 1 EV step)   |

| White balance             |  |
|---------------------------|--|
| Mode setting              | Auto/Preset WB (7 settings)/Customized WB/One-touch WB (camera can store up to 4 settings)   |
| Recording                 |  |
| Memory                    | SD, SDHC and SDXC<br>UHS-II compatible   |
| Recording system          | Digital recording, JPEG (DCF2.0), RAW Data   |
| Compatible standard       | Exif 2.31, Digital Print Order Format (DPOF)   |
| Sound with still pictures | Wave format  |
| Movie recording mode      | MOV (H.264/MPEG-4 AVC, H.265/HEVC)   |
| Audio                     | Stereo linear PCM, 16-bit; sampling frequency 48 kHz (wave<br>format)<br>Stereo linear PCM, 24-bit; sampling frequency 96 kHz (wave<br>format) |
| Playback                  |  |
| Display format            | Single-frame playback/Close-up playback/Index display/Calendar display   |
| Drive                     |  |
| Drive mode                | Single frame; sequential; anti-shock; silent; Pro Capture; self-timer  |
| Sequential shooting       | Up to 10 fps ()<br>Up to 20 fps ()ProCap)<br>Up to 50 fps ()SH2/ProCap SH2)<br>Up to 120 fps ()SH1/ProCap SH1)                                 |
| Self-timer                | 12 sec./2 sec./Customized  |
| Energy saving function    | Switch to sleep mode: 1 minute, Power OFF: 4 hours (This function can be customized.)  |

| External flash                     |  |  |  |  |
|------------------------------------|--|--|--|--|
| Flash control mode                 | TTL-AUTO (TTL pre-flash mode)/MANUAL   |  |  |  |
| X-Sync.                            | 1/250 s or slower  |  |  |  |
| Wireless LAN                       |  |  |  |  |
|                                    | IEEE 802.11a/b/g/n/ac *  |  |  |  |
| Compatible standard                | * Note that cameras have been developed in line with the different standards of the countries.   |  |  |  |
| Bluetooth®                         |  |  |  |  |
| Compatible standard                | Bluetooth Version 4.2 BLE  |  |  |  |
| Frequency range (center frequency) | 2402 – 2480 MHz  |  |  |  |
| External connector                 |  |  |  |  |
|                                    | USB (Type C); HDMI micro connector (type D); external flash;<br>remote cable (ø2.5 mm mini-jack); microphone jack (ø3.5 mm<br>stereo mini-jack); headphone jack (ø3.5 mm stereo mini-jack) |  |  |  |
| Power supply                       |  |  |  |  |
| Battery                            | Lithium-ion Battery ×1   |  |  |  |
| Dimensions/weight                  |  |  |  |  |
| Dimensions                         | Approx. 134.8 mm (W) × 91.6 mm (H) × 72.7 mm (D) (5.4" × 3.7" × 2.9") (excluding protrusions)  |  |  |  |
| Weight                             | Approx. 599 g (1.3 lb.) (including battery and memory card)  |  |  |  |

| Operating environment |  |  |  |  |
|-----------------------|--|--|--|--|
| Temperature           | –10 °C – 40 °C (14 °F – 104 °F) (operation)/ –20 °C – 60 °C (–4 °F –<br>140 °F) (storage)                    |  |  |  |
| Humidity              | 30% – 90% (operation)/ 10% – 90% (storage)   |  |  |  |
| Water resistance      | IEC Standard publication 60529 IPX3 (applies if camera is used with our IPX3 or higher water-resistant lens) |  |  |  |

# Lithium-ion battery

| MODEL NO.                         | BLX-1  |
|-----------------------------------|--|
| Туре                              | Rechargeable Lithium-ion battery                               |
| Nominal voltage                   | DC7.2V   |
| Nominal capacity                  | 2280mAh  |
| No. of charge and discharge times | Approx. 500 times (varies with usage conditions)               |
| Ambient temperature               | 0 °C – 40 °C (32 °F – 104 °F) (charging)                       |
| Dimensions                        | Approx. 40 mm (W) × 22 mm (H) × 55 mm (D) (1.6" × 0.9" × 2.2") |
| Weight                            | Approx. 86 g (3.1 oz.)   |

# **USB-AC** adapter

| MODEL NO.           | F-7AC-1/F-7AC-2  |
|---------------------|--|
| Rated input         | AC 100 V – 240 V (50/60 Hz)  |
| Rated output        | DC 5V, 3 A DC 9V, 3 A  |
| Ambient temperature | 0 °C – 40 °C (32 °F – 104 °F) (operation)/ –20 °C – 60 °C (–4 °F – 140 °F) (storage) |

- The appearance and specifications of this product are subject to change without notice or obligation on the part of the manufacturer.
- Visit our website for the latest specifications.

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# **Default Settings**

# **Default Settings**

- Super Control/LV Super Control Panel (P.511)
- **1** Tab (P.516)
- **1**2 Tab (P.524)
- AF Tab (P.529)
- 🎦 Tab (P.535)
- **Tab** (P.539)
- 🇱 Tab (P.541)
- **1** Tab (P.549)

# Super Control/LV Super Control Panel

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

## Shooting Mode: P, A, S, M, B

| Role           | Default role  | *1 | *2 | *3 |
|----------------|---|----|----|----|
| Shooting Mode  | Ρ   | -  | _  | _  |
| Shutter Speed  | 1/250 s (When set to ${f S}/{f M}$ ), Bulb (When set to ${f B}$ ) | ~  | ~  | ✓  |
| Aperture Value | F5.6  | ~  | ✓  | ✓  |
| ISO ISO        | ISO Auto  | ~  | ✓  | ✓  |
| AF Target Mode | [ = ]Small  | ✓  | ✓  | ✓  |

#### Exposure Comp. / 🖸

| Exposure Comp.    | ±0.0                               | $\checkmark$ | ✓ | ~ |
|-------------------|------------------------------------|--------------|---|---|
|                   | All ±0.0                           | ✓            | ~ | ~ |
| Wi-Fi/Bluetooth   | _                                  | _            | _ | - |
| Picture Mode      | <b>3</b> Natural                   | $\checkmark$ | ✓ | ~ |
| <b>W</b> B        | WB Auto                            | ~            | ~ | ~ |
| Kelvin            | 5400K (When [CWB] is set to [CWB]) | $\checkmark$ | ~ | - |
| Button Function   | -                                  | $\checkmark$ | ✓ | - |
| AF Mode           | S-AF                               | $\checkmark$ | ✓ | ~ |
| Subject Detection | [D] Off                            | $\checkmark$ | ✓ | - |
| Flash Mode        | \$                                 | $\checkmark$ | ✓ | ~ |

| Role                 | Default role  | *1 | *2 | *3 |
|----------------------|---|----|----|----|
| Flash Exposure Comp. | ±0.0  | ~  | ✓  | ✓  |
| Manual Value         | <pre>\$Full (When flash is set to [\$Manual])</pre> | ~  | ~  | ~  |
| Drive 旦/ざ            |   | ~  | ~  | ~  |
| Metering             |   | ~  | ~  | ~  |
| Aspect               | 4:3   | ~  | ~  | ~  |
| Image Stabilizer     | S-IS Auto   | ~  | ~  | ~  |
| Card Slot Settings   | Standard  | ~  | ~  | _  |
| 1 ◘ ♣                | ■F (when High Res Shot is set: ឈ F+RAW)             | ~  | ~  | ~  |
| 204                  | ■F (when High Res Shot is set: ឈ F+RAW)             | ~  | ~  | ~  |
| \$2 €                | 4K 60p L-8  | ~  | ~  | ✓  |

# 

| Role             | Default role | *1 | *2 | *3           |
|------------------|--------------|----|----|--------------|
| <b>鉛</b> Mode    | Ρ            | _  | ~  | _            |
| Shutter Speed    | 1/250 s      | _  | ~  | ~            |
| Aperture Value   | F5.6         | _  | ~  | ~            |
| 留 ISO            | ISO Auto     | _  | ~  | ✓            |
| 🛱 AF Target Mode | [ ▦]Middle   | _  | ~  | $\checkmark$ |

#### Exposure Comp. / 🖸

|          | Exposure Comp.     | ±0.0  | ✓ | $\checkmark$ | ~ |
|----------|--------------------|---|---|--------------|---|
|          |                    | All ±0.0  | ~ | ~            | ~ |
| Wi-F     | ï/Bluetooth        | -   | - | _            | _ |
| ₽P       | icture Mode        | <b>3</b> Natural                                  | ✓ | ~            | ~ |
| £۲       | VВ                 | WB Auto   | _ | ~            | ~ |
| £СК      | elvin              | 5400K (When <b>[鉛WB]</b> is set to <b>[CWB]</b> ) | - | ~            | — |
| ₿B       | utton Function     | _   | - | ~            | _ |
| ₽A       | F Mode             | C-AF  | ✓ | ~            | ~ |
| Subj     | ect Detection      | [Ø] Off   | ✓ | ~            | _ |
| ۲        | nage Stabilizer    | M-IS1   | _ | ~            | ~ |
| <b>₽</b> | (ŀ·                | 4K 60p L-8  | ✓ | ~            | ✓ |
| Sour     | nd Recording Level | ±0  | - | ~            | — |
| Head     | dphone Volume      | 8   | _ | $\checkmark$ | — |

## Shooting Mode: RC Mode

| Role           | Default role  | *1 | *2 | *3 |
|----------------|---|----|----|----|
| Shooting Mode  | Ρ   | -  | _  | -  |
| Shutter Speed  | 1/250 s (When set to ${f S}/{f M}$ ), Bulb (When set to ${f B}$ ) | ~  | ~  | ✓  |
| Aperture Value | F5.6  | ~  | ✓  | ✓  |
|                | ISO Auto  | ~  | ✓  | ✓  |
| AF Target Mode | [  III] Small   | ✓  | ✓  | ✓  |

Exposure Comp. / 🖸

| Exposure Comp.     | ±0.0                               | $\checkmark$ | ✓ | ~ |
|--------------------|------------------------------------|--------------|---|---|
|                    | All ±0.0                           | ✓            | ~ | ~ |
| Wi-Fi/Bluetooth    | -                                  |              | _ | _ |
| Picture Mode       | <b>⅔`3</b> Natural                 | $\checkmark$ | ~ | ~ |
| <b>W</b> B         | WB Auto                            | $\checkmark$ | ~ | ~ |
| Kelvin             | 5400K (When [DWB] is set to [CWB]) | ✓            | ~ | _ |
| Button Function    | -                                  | $\checkmark$ | ~ | _ |
| A mode             | TTL                                | ✓            | ~ | ~ |
| B mode             | Off                                | $\checkmark$ | ~ | ~ |
| C mode             | Off                                | $\checkmark$ | ~ | ~ |
| Flash compensation | ±0 (when set to TTL/Auto)          | $\checkmark$ | ~ | ~ |
| Flash output       | 1/1 (when in Manual Mode)          | $\checkmark$ | ✓ | ~ |
| Flash Mode         | \$                                 | $\checkmark$ | ✓ | ~ |
| \$/FP              | \$ (Normal)                        | $\checkmark$ | ✓ | ✓ |

| Role                      | Default role | *1 | *2 | *3 |
|---------------------------|--------------|----|----|----|
| 🖏 optical signal strength | Low          | ✓  | ✓  | ✓  |
| Channel                   | Ch1          | ✓  | ✓  | ✓  |

# D<sub>1</sub> Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

### 1. Basic Settings/Image Quality

| Role | Default role | *1 | *2 | *3 |
|------|--------------|----|----|----|
|      |              |    |    |    |

Custom Mode

|    | Recall        | -  | _ |              | _ |
|----|---------------|--|---|--------------|---|
| C1 | Assign        | Shooting Mode: <b>P</b><br>Image quality: <b>U</b> F+RAW | _ | _            | _ |
|    | Save Settings | Reset  | _ | $\checkmark$ | _ |
|    | Recall        | -  | _ | _            | _ |
| C2 | Assign        | Shooting Mode: <b>P</b><br>Image quality: <b>U</b> F+RAW | _ | _            | _ |
|    | Save Settings | Reset  | _ | $\checkmark$ | _ |
|    | Recall        | _  | _ | _            | _ |
| C3 | Assign        | Shooting Mode: <b>P</b><br>Image quality: <b>U</b> F+RAW | _ | _            | _ |
|    | Save Settings | Reset  | _ | $\checkmark$ | _ |
|    | Recall        | -  | _ |              | _ |
| C4 | Assign        | Shooting Mode: <b>P</b><br>Image quality: <b>U</b> F+RAW | _ | _            | _ |
|    | Save Settings | Reset  | _ | $\checkmark$ | _ |
| ۵€ |               | <b>Q</b> F   | ✓ | $\checkmark$ | ✓ |
|    |               |  |   |              |   |

| Role              | Default role                             | *1 | *2 | *3 |
|-------------------|--|----|----|----|
| Detailed Settings |  |    |    |    |
| <b>≪</b> ∺1       | Pixel Count: <b>L</b><br>Compression: SF | ~  | ~  |    |
| <b>≪</b> ₩2       | Pixel Count: <b>L</b><br>Compression: F  | ~  | ~  | _  |
| <b>€</b> -3       | Pixel Count: <b>L</b><br>Compression: N  | ~  | ~  |    |
| <b>≪</b> ∺-4      | Pixel Count: M<br>Compression: N         | ~  | ~  | _  |
| Image Aspect      | 4:3                                      | ✓  | ✓  | ✓  |
| Image Review      | Off                                      | ✓  | ✓  | _  |
| Shading Comp.     | Off                                      | ~  | ✓  | ✓  |

## 2. Picture Mode/WB

|                | Role    | Default role | *1 | *2           | *3           |
|----------------|---------|--------------|----|--------------|--------------|
| Picture Mode   |         | 3Natural     | ✓  | ✓            | $\checkmark$ |
| Picture Mode S | ettings | All items: 🗸 | ~  | ~            | _            |
| <b>D</b> WB    |         | WB Auto      | ~  | ✓            | $\checkmark$ |
|                |         |              |    |              |              |
|                | A-B     | 0            | ~  | ~            | _            |
|                | G-M     | 0            | ~  | ~            | —            |
| AUTO Keep Warn | n Color | On           | ~  | $\checkmark$ | $\checkmark$ |
| <b>\$</b> +WB  |         | Off          | ~  | ~            | _            |

| Role        | Default role | *1 | *2 | *3 |
|-------------|--------------|----|----|----|
| Color Space | sRGB         | ✓  | ✓  | ~  |

### 3. ISO/Noise Reduction

|                     | Role        | Default role   | *1 | *2 | *3           |  |  |
|---------------------|-------------|----------------|----|----|--------------|--|--|
| ISO-A Upper/Default |             |                |    |    |              |  |  |
|                     | Upper Limit | 25600          | ✓  | ✓  | $\checkmark$ |  |  |
|                     | Default     | 200            | ✓  | ✓  | $\checkmark$ |  |  |
| DISO-A              | Lowest S/S  | Auto           | ✓  | ~  | $\checkmark$ |  |  |
| DISO-A              | uto         | P/A/S/M        | ~  | ~  | _            |  |  |
| ISO Step            |             | 1/3EV          | ✓  | ✓  | $\checkmark$ |  |  |
| Noise               | Filter      | Standard       | ✓  | ~  | $\checkmark$ |  |  |
| Low ISO             | Processing  | Drive Priority | ✓  | ~  | $\checkmark$ |  |  |
| Noise Re            | duction     | Auto           | ✓  | ~  | $\checkmark$ |  |  |

### 4. Exposure

| Role         | Default role | *1 | *2 | *3           |
|--------------|--------------|----|----|--------------|
| Flicker Scan | Off          | ~  | ✓  | $\checkmark$ |
| EV Step      | 1/3EV        | ~  | ✓  | ~            |

Exposure Shift

|                              | ±0 | $\checkmark$ | ~ | — |
|------------------------------|----|--------------|---|---|
| $\textcircled{\textbf{(b)}}$ | ±0 | ✓            | ~ |   |
| •                            | ±0 | ~            | ~ | _ |

## 5. Metering

| Role                   | Default role                     | *1 | *2           | *3           |
|------------------------|----------------------------------|----|--------------|--------------|
| Metering               | $\mathbf{\overline{\mathbf{A}}}$ | ✓  | $\checkmark$ | $\checkmark$ |
| Metering during        | Auto                             | ✓  | $\checkmark$ | $\checkmark$ |
| ALL Auto Reset         | No                               | ~  | ✓            | $\checkmark$ |
| AEL by half-pressing 💻 | S-AF Only                        | ~  | $\checkmark$ | $\checkmark$ |
| Metering during 🖵      | Yes                              | ~  | ✓            | $\checkmark$ |
| [:::]Spot Metering     | All items: 🗸                     | ~  | $\checkmark$ | $\checkmark$ |

### 6. Flash

| Role                     | Default role | *1 | *2           | *3           |
|--------------------------|--------------|----|--------------|--------------|
| <b>\$</b> RC Mode        | Off          | ~  | $\checkmark$ | ~            |
| <b>\$</b> X-Sync.        | 1/250sec     | ~  | ✓            | $\checkmark$ |
| <b>\$</b> Slow Limit     | 1/60sec      | ~  | ✓            | $\checkmark$ |
| 31 <b>2</b> + 1 <b>2</b> | Off          | ~  | ✓            | $\checkmark$ |
| Balanced Flash Metering  | Off          | ~  | ✓            | $\checkmark$ |

Flash Mode Settings

| Reduce Red-eye   | No            | ~ | ~ | $\checkmark$ |
|------------------|---------------|---|---|--------------|
| Synchro Settings | First Curtain | ✓ | ~ | $\checkmark$ |

### 7. Drive Mode

| Role        | Default role | *1 | *2           | *3           |
|-------------|--------------|----|--------------|--------------|
| Drive 🖳 / 🕉 |              | ✓  | $\checkmark$ | $\checkmark$ |

| Role                  | Default role | *1 | *2 | *3 |
|-----------------------|--------------|----|----|----|
| Anti-Flicker Shooting | Off          | ✓  | ✓  | ~  |

Sequential Shooting Settings

| 9                   | $\checkmark$ | ✓ | $\checkmark$ | _ |
|---------------------|--------------|---|--------------|---|
| Max fps             | 10fps        | ✓ | ✓            | ✓ |
| Frame Count Limiter | Off          | ✓ | ✓            | ✓ |
| *_                  | $\checkmark$ | ✓ | ~            | _ |
| Max fps             | 20fps        | ~ | ~            | ~ |
| Frame Count Limiter | Off          | ~ | ~            | ~ |
| ♥⊒uSH1              | $\checkmark$ | ~ | ~            | _ |
| Max fps             | 120fps       | ~ | ~            | ~ |
| Frame Count Limiter | Off          | ✓ | ✓            | ✓ |
| ♥⊒uSH2              | $\checkmark$ | ✓ | ~            | _ |
| Max fps             | 50fps        | ✓ | ✓            | ✓ |
| Frame Count Limiter | Off          | ✓ | ✓            | ~ |
| ProCap              | $\checkmark$ | ✓ | $\checkmark$ | _ |
| Max fps             | 20fps        | ✓ | ✓            | ✓ |
| Pre-shutter Frames  | 10           | ✓ | ✓            | ✓ |
| Frame Count Limiter | 50           | ✓ | $\checkmark$ | ✓ |

| Role                | Default role | *1           | *2           | *3           |
|---------------------|--------------|--------------|--------------|--------------|
| ProCap SH1          | ✓            | ✓            | ✓            | _            |
| Max fps             | 120fps       | ✓            | ✓            | ✓            |
| Pre-shutter Frames  | 28           | ✓            | ✓            | ✓            |
| Frame Count Limiter | 50           | ✓            | ✓            | ✓            |
| ProCap SH2          | ✓            | ~            | ✓            | _            |
| Max fps             | 50fps        | ✓            | $\checkmark$ | $\checkmark$ |
| Pre-shutter Frames  | 12           | $\checkmark$ | ✓            | $\checkmark$ |
| Frame Count Limiter | 50           | $\checkmark$ | $\checkmark$ | $\checkmark$ |

Self-timer Settings

| গ্র্য | 12               | ✓                              | ✓ | $\checkmark$ | _            |
|-------|------------------|--------------------------------|---|--------------|--------------|
| ₹ۆ    | 012              | $\Box$ (without $\checkmark$ ) | ✓ | ✓            | _            |
| ڻ2    | 2                | ✓                              | ✓ | ✓            | _            |
| ₹ۆ    | 22               | ✓                              | ✓ | $\checkmark$ | _            |
| ণ্ড   | 2                | ✓                              | ✓ | $\checkmark$ | _            |
|       | Number of Frames | 3f                             | ✓ | ✓            | ✓            |
|       | లి Timer         | 1sec                           | ✓ | ✓            | ✓            |
|       | Interval Length  | 0.5sec                         | ✓ | ✓            | $\checkmark$ |
|       | Every Frame AF   | Off                            | ✓ | ✓            | $\checkmark$ |

| Role             | Default role                   | *1 | *2 | *3 |
|------------------|--------------------------------|----|----|----|
| *ওঁ০             | $\Box$ (without $\checkmark$ ) | ✓  | ✓  | _  |
| Number of Frames | 3f                             | ✓  | ✓  | ✓  |
| స్త Timer        | 1sec                           | ✓  | ✓  | ✓  |
| Interval Length  | 0.5sec                         | ✓  | ✓  | ✓  |
| Every Frame AF   | Off                            | ✓  | ✓  | ✓  |

#### Anti-Shock [] Settings

| Anti-Shock [ <b>♦</b> ] | Off  | ✓ | ✓            |   |
|-------------------------|------|---|--------------|---|
| Waiting Time            | Osec | ~ | $\checkmark$ | — |

#### Silent [♥] Settings

| Waiting Time    | 0sec      | ✓ | $\checkmark$ | _ |
|-----------------|-----------|---|--------------|---|
| Noise Reduction | Off       | ~ | $\checkmark$ | _ |
| ■)))            | Not Allow | ~ | $\checkmark$ | _ |
| AF Illuminator  | Not Allow | ~ | $\checkmark$ | _ |
| Flash Mode      | Not Allow | ✓ | $\checkmark$ | _ |

## 8. Image Stabilizer

| Role               | Default role | *1 | *2 | *3           |
|--------------------|--------------|----|----|--------------|
| Image Stabilizer   | S-IS Auto    | ✓  | ~  | ~            |
| □ Image Stabilizer | Fps Priority | ~  | ~  | $\checkmark$ |
| -Image Stabilizer  | On           | _  | ✓  | $\checkmark$ |
| Handheld Assist    | Off          | ~  | ~  | ~            |

| Role               | Default role | *1 | *2 | *3 |
|--------------------|--------------|----|----|----|
| Lens I.S. Priority | Off          | ✓  | ~  | ~  |

# D<sub>2</sub> Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

#### 1. Computational Modes

|      | Role                 | Default role | *1           | *2 | *3           |  |  |  |  |
|------|----------------------|--------------|--------------|----|--------------|--|--|--|--|
| High | High Res Shot        |              |              |    |              |  |  |  |  |
|      | High Res Shot        | Off          | $\checkmark$ | ✓  | $\checkmark$ |  |  |  |  |
|      | <b>≣ €</b> •         | 80m F+RAW    | $\checkmark$ | ~  | $\checkmark$ |  |  |  |  |
|      | RAW Recording Bit    | 12bit        | $\checkmark$ | ~  | _            |  |  |  |  |
|      | Waiting Time         | Osec         | $\checkmark$ | ~  | _            |  |  |  |  |
|      | <b>↓</b> Charge Time | Osec         | $\checkmark$ | ~  | _            |  |  |  |  |
| Live | ND Shooting          |              |              |    |              |  |  |  |  |
|      | Live ND Shooting     | Off          | $\checkmark$ | ✓  | $\checkmark$ |  |  |  |  |
|      | ND Number            | ND8(3EV)     | $\checkmark$ | ~  | _            |  |  |  |  |
|      | LV Simulation        | On           | $\checkmark$ | ~  | _            |  |  |  |  |
| Live | Live GND Shooting    |              |              |    |              |  |  |  |  |
|      | Live GND Shooting    | Off          | $\checkmark$ | ✓  | $\checkmark$ |  |  |  |  |

| Live GND Shooting  | Off       | ~ | ~            | ~ |
|--------------------|-----------|---|--------------|---|
| GND Number         | GND8(3EV) | ~ | ~            | — |
| Filter Type        | Soft      | ~ | ~            | — |
| Filter Auto Rotate | On        | ~ | $\checkmark$ |   |

|                | Role                   | Default role | *1 | *2           | *3           |  |  |  |  |
|----------------|------------------------|--------------|----|--------------|--------------|--|--|--|--|
| Focus Stacking |                        |              |    |              |              |  |  |  |  |
|                | Focus Stacking         | Off          | ✓  | $\checkmark$ | ~            |  |  |  |  |
|                | Set number of shots    | 8            | ✓  | ~            | _            |  |  |  |  |
|                | Set focus differential | 5            | ✓  | $\checkmark$ | _            |  |  |  |  |
|                | <b>↓</b> Charge Time   | Osec         | ~  | ✓            |              |  |  |  |  |
| HDF            | 2                      | Off          | ✓  | $\checkmark$ | $\checkmark$ |  |  |  |  |

Multiple Exposure

| Multiple Exposure | Off |   | ~ | $\checkmark$ |
|-------------------|-----|---|---|--------------|
| Auto Gain         | Off | _ | ✓ | $\checkmark$ |
| Overlay           | Off | _ | ~ | $\checkmark$ |

# 2. Other Shooting Functions

| Role                   | Default role | *1 | *2 | *3           |
|------------------------|--------------|----|----|--------------|
| Digital Tele-converter | Off          | ✓  | ✓  | $\checkmark$ |

|                      | Role                             | Default role  | *1 | *2           | *3 |
|----------------------|----------------------------------|---------------|----|--------------|----|
| Interval             | Shooting                         |               |    |              |    |
| Int                  | terval Shooting                  | Off           | _  | ✓            | ✓  |
| Nu                   | umber of Frames                  | 100           | ✓  | ~            | ✓  |
| Sta                  | art Waiting Time                 | 00:00:01      | ✓  | ~            | ~  |
| Int                  | terval Length                    | 00:00:01      | ✓  | ~            | ~  |
| Int                  | terval Mode                      | Time Priority | ✓  | $\checkmark$ | ~  |
| Ex                   | posure Smoothing                 | On            | ✓  | ~            | ~  |
| Tir                  | me Lapse Movie                   | Off           | ✓  | ~            | ~  |
| M                    | ovie Settings                    |               |    |              |    |
|                      | Movie Resolution                 | FullHD        | ✓  | ✓            | ✓  |
|                      | Frame Rate                       | 10fps         | ✓  | ~            | ~  |
| Keystone             | e Comp.                          | Off           | ✓  | ~            | ✓  |
| Fisheye Compensation |                                  |               |    |              |    |
| Fis                  | sheye Compensation               | Off           | ✓  | $\checkmark$ | ✓  |
| Ar                   | ngle                             | 1             | ✓  | $\checkmark$ | _  |
| 2                    | <ul> <li>/ Correction</li> </ul> | Off           | ✓  | ✓            | _  |

| Role                    | Default role | *1 | *2 | *3 |  |  |  |  |  |
|-------------------------|--------------|----|----|----|--|--|--|--|--|
| BULB/TIME/COMP Settings |              |    |    |    |  |  |  |  |  |
| Bulb/Time Focusing      | On           | ✓  | ✓  | ✓  |  |  |  |  |  |
| Bulb/Time Timer         | 8min         | ✓  | ~  | ~  |  |  |  |  |  |
| Live Composite Timer    | 3h           | ✓  | ~  | ~  |  |  |  |  |  |
| Bulb/Time Monitor       | -7           | ✓  | ~  | _  |  |  |  |  |  |
| Live Bulb               | Off          | ✓  | ~  | _  |  |  |  |  |  |
| Live Time               | 0.5sec       | ✓  | ~  | _  |  |  |  |  |  |
| Composite Settings      | 1/2sec       | ✓  | ~  | _  |  |  |  |  |  |

## 3. Bracketing

| Role   | Default role | *1 | *2 | *3 |
|--------|--------------|----|----|----|
| AE BKT | Off          | ✓  | ✓  | ~  |

#### WB BKT

|    | A-B   | Off | ✓ | ✓ | $\checkmark$ |
|----|-------|-----|---|---|--------------|
|    | G-M   | Off | ✓ | ✓ | ✓            |
| FL | ВКТ   | Off | ✓ | ✓ | $\checkmark$ |
| IS | О ВКТ | Off | ✓ | ✓ | ✓            |

#### ART BKT

| ART BKT         | Off  | ✓ | ✓ | $\checkmark$ |
|-----------------|--|---|---|--------------|
| ART BKT Setting | ART only: $\checkmark$ (ART with multiple types: only the $\blacksquare$ type is checked $\checkmark$ .) | ~ | ~ | ~            |

|           | Role                | Default role | *1 | *2 | *3           |  |  |
|-----------|---------------------|--------------|----|----|--------------|--|--|
| Focus BKT |                     |              |    |    |              |  |  |
|           | Focus BKT           | Off          | ✓  | ✓  | $\checkmark$ |  |  |
|           | Set number of shots | 99           | ✓  | ✓  | $\checkmark$ |  |  |

| Set focus differential | 5    | ~ | ✓ | ~ |
|------------------------|------|---|---|---|
| Charge Time            | 0sec | ✓ | ✓ | ✓ |

# AF Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

#### **1. AF**

| Role    | Default role | *1 | *2 | *3 |
|---------|--------------|----|----|----|
| AF Mode | S-AF         | ✓  | ✓  | ✓  |
| AF+MF   | Off          | ~  | ~  | ~  |

#### Starry Sky AF Setting

| AF Priority      | Speed            | ✓ | ✓ | $\checkmark$ |
|------------------|------------------|---|---|--------------|
| AF Operation     | AF-ON Start/Stop | ✓ | ✓ | $\checkmark$ |
| Release Priority | Off              | ~ | ~ | $\checkmark$ |

#### AF by half-pressing

|       | S-AF         | Yes | ~ | ~ | $\checkmark$ |
|-------|--------------|-----|---|---|--------------|
|       | C-AF/C-AF+TR | Yes | ~ | ✓ | $\checkmark$ |
| AF-ON | in MF mode   | No  | ✓ | ✓ | $\checkmark$ |

#### **Release Priority**

| S-AF         | Off | ✓ | ✓ | $\checkmark$ |
|--------------|-----|---|---|--------------|
| C-AF/C-AF+TR | On  | ~ | ~ | $\checkmark$ |

## 2. AF

| Role              | Default | role *1 | *2 | *3 |  |  |  |  |  |
|-------------------|---------|---------|----|----|--|--|--|--|--|
| Subject Detection | Off     | ✓       | ✓  | _  |  |  |  |  |  |
| ♥C-AF Setting     |         |         |    |    |  |  |  |  |  |
| C-AF Area         | All     | ✓       | ✓  | _  |  |  |  |  |  |
| 留令C-AF Area       | All     | ✓       | ✓  | _  |  |  |  |  |  |
| ✿AF Button        |         |         |    |    |  |  |  |  |  |

|       | =              | 🕅 Priority | $\checkmark$ | $\checkmark$ | $\checkmark$ |
|-------|----------------|------------|--------------|--------------|--------------|
|       | AF-ON          | D Priority | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Eye D | etection Frame | On         | ~            | $\checkmark$ | _            |

## 3. AF

| Role            | Default role | *1 | *2           | *3           |
|-----------------|--------------|----|--------------|--------------|
| AF Illuminator  | On           | ✓  | $\checkmark$ | ~            |
| AF Area Pointer | On1          | ~  | ✓            | $\checkmark$ |

## 4. AF

| Role             | Default role | *1 | *2 | *3           |
|------------------|--------------|----|----|--------------|
| C-AF Sensitivity | ±0           | ✓  | ✓  | $\checkmark$ |

| Role                 | Default role                   | *1           | *2           | *3 |
|----------------------|--------------------------------|--------------|--------------|----|
| C-AF Center Priority |                                |              |              |    |
| [ #]Cross            | $\checkmark$                   | $\checkmark$ | ~            | ~  |
| [ 🏼 ]Mid             | ✓                              | ✓            | ~            | ~  |
| [ 🎆 ]Large           | ✓                              | ✓            | ~            | ~  |
| <b>[Ⅲ]</b> C1        | $\Box$ (without $\checkmark$ ) | ✓            | ~            | ~  |
| [ <b></b> ]C2        | □ (without ✓)                  | $\checkmark$ | $\checkmark$ | ~  |
| <b>[Ⅲ]</b> C3        | □ (without ✓)                  | ✓            | ~            | ~  |
| <b>[Ⅲ</b> ]C4        | □ (without ✓)                  | $\checkmark$ | ~            | ~  |
| AF Limiter           |                                |              |              |    |
| AF Limiter           | Off                            | $\checkmark$ | $\checkmark$ | ~  |
| Distance for On1     | 5.0 - 999.9m                   | $\checkmark$ | ~            | ~  |
| Distance for On2     | 10.0 - 999.9m                  | $\checkmark$ | ~            | ~  |
| Distance for On3     | 50.0 - 999.9m                  | $\checkmark$ | ~            | ~  |
| Release Priority     | On                             | $\checkmark$ | ~            | ~  |
| AF Scanner           | On                             | $\checkmark$ | ~            | ~  |
| AF Focus Adjustment  |                                |              |              |    |
| AF Focus Adjustment  | Off                            | ✓            | ~            |    |
| Fine-tuning Value    | ±0                             | _            | _            | _  |

#### 5. Movie AF

| Role              | Default role | *1 | *2 | *3 |
|-------------------|--------------|----|----|----|
| 留AF Mode          | C-AF         | ~  | ~  | ~  |
| 留C-AF Speed       | ±0           | ~  | ~  | ✓  |
| 留C-AF Sensitivity | ±0           | ~  | ✓  | ~  |

## 6. AF Target Settings & Operations

| Role                    | Default role                   | *1           | *2 | *3 |  |  |
|-------------------------|--------------------------------|--------------|----|----|--|--|
| AF Target Mode Settings |                                |              |    |    |  |  |
|                         | ✓                              | $\checkmark$ | ✓  | _  |  |  |
| [•]Single               | ✓                              | ✓            | ✓  | _  |  |  |
| [#]Cross                | ✓                              | ✓            | ✓  | —  |  |  |
| [ III ]Mid              | ✓                              | ✓            | ✓  | —  |  |  |
| [III]Large              | ✓                              | $\checkmark$ | ✓  | _  |  |  |
| <b>[≡≡]</b> C1          | $\Box$ (without $\checkmark$ ) | ✓            | ✓  | —  |  |  |
| [ <b></b> ]C2           | □ (without ✓)                  | $\checkmark$ | ✓  | _  |  |  |
| [ <b></b> ]C3           | □ (without ✓)                  | $\checkmark$ | ✓  | _  |  |  |
| <b>[Ⅲ]</b> C4           | □ (without ✓)                  | $\checkmark$ | ✓  | _  |  |  |
| Orientation Linked […]  |                                |              |    |    |  |  |
| AF Target Mode          | $\Box$ (without $\checkmark$ ) | $\checkmark$ | ✓  | _  |  |  |
| AF Target Point         | $\Box$ (without $\checkmark$ ) | ✓            | ✓  | _  |  |  |

| Role                   | Default role     | *1           | *2           | *3 |
|------------------------|------------------|--------------|--------------|----|
| 🗅 […] Set Home         |                  |              |              |    |
| AF Target Mode         | ✓ ([]]]AII)      | $\checkmark$ | $\checkmark$ | ~  |
| AF Target Point        | ✓                | ✓            | $\checkmark$ | ~  |
| Select Screen Settings |                  |              |              |    |
| • dial                 | [-::-]Mode       | $\checkmark$ | $\checkmark$ | ~  |
| <b>↓</b> button        | • <b>Ģ</b> + Pos | $\checkmark$ | ~            | ~  |
| [····] Loop Settings   |                  |              |              |    |
| [·:·] Loop Selection   | Off              | $\checkmark$ | ~            | ~  |
| Via [IIII]All          | No               | $\checkmark$ | ~            | ~  |
| AF Targeting Pad       | Off              | ✓            | ~            | ~  |

#### 7. MF

|           | Role            | Default role | *1 | *2 | *3 |  |  |  |
|-----------|-----------------|--------------|----|----|----|--|--|--|
| MF Assist |                 |              |    |    |    |  |  |  |
|           | Magnify         | Off          | ✓  | ~  | _  |  |  |  |
|           | Peaking         | Off          | ~  | ~  | _  |  |  |  |
|           | Focus Indicator | Off          | ✓  | ✓  | _  |  |  |  |

#### Peaking Settings

| Peaking Color         | Red    | $\checkmark$ | $\checkmark$ |   |
|-----------------------|--------|--------------|--------------|---|
| Highlight Intensity   | Normal | $\checkmark$ | $\checkmark$ | _ |
| Image Brightness Adj. | Off    | $\checkmark$ | $\checkmark$ | _ |

| Role               | Default role | *1 | *2 | *3 |
|--------------------|--------------|----|----|----|
| Preset MF distance | 999.9m       | ~  | ~  | ~  |
| MF Clutch          | Operative    | ~  | ~  | ~  |
| Focus Ring         | Ç            | ~  | ~  | _  |
| Reset Lens         | Off          | ~  | ~  |    |

# 🖀 Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

### 1. Basic Settings/Image Quality

| Role                   | Default role      | *1 | *2           | *3           |
|------------------------|-------------------|----|--------------|--------------|
| ₽ Video Codec          | H.264             | ~  | $\checkmark$ | ✓            |
| ₩                      | <b>4K</b> 60p L-8 | ~  | ✓            | ~            |
| ₩ Mode                 | Р                 |    | <b>~</b>     | _            |
| 🛱 Flicker Scan         | Off               |    | $\checkmark$ | ~            |
| Digital Tele-converter | Off               | _  | $\checkmark$ | $\checkmark$ |

#### 2. Picture Mode/WB

| Role           | Default role | *1 | *2 | *3           |
|----------------|--------------|----|----|--------------|
| ₽ Picture Mode | Same as      | ~  | ✓  | $\checkmark$ |
| Ciew Assist    | Off          | _  | ~  | _            |
| ₽wb            | WB Auto      | _  | ✓  | $\checkmark$ |

All WBFZ

|                | A-B     | 0  |   | <b>~</b> | _            |
|----------------|---------|----|---|----------|--------------|
|                | G-M     | 0  | — | ~        | —            |
| AUTO Keep Warn | n Color | On | _ | ~        | $\checkmark$ |

#### 3. ISO/Noise Reduction

|                        | Role        | Default role | *1 | *2           | *3 |  |
|------------------------|-------------|--------------|----|--------------|----|--|
| Ƙamuso-A Upper/Default |             |              |    |              |    |  |
|                        | Upper Limit | 12800        | _  | $\checkmark$ | ✓  |  |
|                        | Default     | 200          | _  | $\checkmark$ | ~  |  |
| ₽м∣                    | SO-Auto     | On           | _  | $\checkmark$ | _  |  |
| 🛱 Noise Filter         |             | Standard     | _  | $\checkmark$ | ~  |  |

## 4. Image Stabilizer

| Role              | Default role | *1 | *2 | *3           |
|-------------------|--------------|----|----|--------------|
| PImage Stabilizer | M-IS1        | _  | ~  | $\checkmark$ |
| PIS Level         | ±0           | _  | ✓  | ✓            |

## 5. Sound Recording/Connection

|                    | -                        |              |    |              |    |  |  |
|--------------------|--------------------------|--------------|----|--------------|----|--|--|
|                    | Role                     | Default role | *1 | *2           | *3 |  |  |
| Sound Recording    | Sound Recording Settings |              |    |              |    |  |  |
| Recording          | Volume                   |              |    |              |    |  |  |
|                    | Built-In 🎐               | ±0           | _  | $\checkmark$ | _  |  |  |
|                    | MIC 🍨                    | ±0           | _  | $\checkmark$ | _  |  |  |
| <b>♥</b> Volume L  | imiter                   | On           | _  | $\checkmark$ | _  |  |  |
| Wind Noise         | Reduction                | Off          | _  | $\checkmark$ | _  |  |  |
| Recording F        | Rate                     | 48kHz/16bit  | _  | ✓            | _  |  |  |
| <b>⊉</b> Plug-in P | ower                     | On           | _  | $\checkmark$ | _  |  |  |
| Camera Rec         | c. Volume                | Operative    | _  | $\checkmark$ | _  |  |  |
| Headphone Volur    | ne                       | 8            | _  | $\checkmark$ | _  |  |  |

#### Time Code Settings

| Time Code Mode | Drop Frame | _ | $\checkmark$ |   |
|----------------|------------|---|--------------|---|
| Count Up       | Rec Run    | - | $\checkmark$ | _ |
| Starting Time  | _          | _ | $\checkmark$ | _ |

#### HDMI Output

| Output Mode | Monitor | _ | ~ | _ |
|-------------|---------|---|---|---|
| REC Bit     | Off     | _ | ✓ | _ |
| Time Code   | On      | _ | ~ | _ |

# 6. Shooting Assist

| Role                   | Default role | *1 | *2 | *3 |  |  |
|------------------------|--------------|----|----|----|--|--|
| Center Marker          | Off          | _  | ✓  | _  |  |  |
| Zebra Pattern Settings |              |    |    |    |  |  |

|     | Zebra Pattern Settings    | Off | — | ✓ | — |
|-----|---------------------------|-----|---|---|---|
|     | 💹 Level 1                 | 80  | _ | ✓ | — |
|     | Level 2                   | Off | _ | ✓ | _ |
| Red | Frame during <b>O</b> REC | On  | _ | ~ | — |

# 🕨 Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

#### 1. File

| Role             | Default role | *1 | *2           | *3 |
|------------------|--------------|----|--------------|----|
| <u></u>          | —            | _  | _            | _  |
| Reset All Images | _            |    |              | _  |
| Copy All         | —            | _  | _            | _  |
| Erase All        | —            |    | $\checkmark$ | _  |

#### 2. Operations

| Role                 | Default role   | *1 | *2           | *3 |
|----------------------|----------------|----|--------------|----|
| ► <b>●</b> Function  | V              | _  | ✓            | _  |
| Dial Function        | <b>▲</b> ♥/¥⊠Q | _  | ✓            | _  |
| Default Setting      | Recently       | _  | ~            | _  |
| Quick Erase          | Off            | _  | ~            | ~  |
| RAW+JPEG Erase       | RAW+JPEG       | _  | $\checkmark$ | _  |
| RAW+JPEG <b>&lt;</b> | JPEG           | _  | $\checkmark$ | _  |

#### 3. Displays

| Role            | Default role | *1 | *2           | *3           |
|-----------------|--------------|----|--------------|--------------|
| ŕ               | On           | _  | $\checkmark$ | $\checkmark$ |
| ► Info Settings | All items: 🗸 | _  | $\checkmark$ | $\checkmark$ |

| Role                     | Default role                           | *1 | *2           | *3 |
|--------------------------|--|----|--------------|----|
| ▶ <b>Q</b> Info Settings | All items: 🗸                           | _  | $\checkmark$ | -  |
| Settings                 | [ <b>25]</b> and <b>[Calendar]</b> : ✓ | _  | $\checkmark$ | _  |
| Rating Settings          | All items: 🗸                           | _  | $\checkmark$ | _  |

## 🗱 Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

### 1. Operations

|            | Role                | Default role      | *1           | *2           | *3 |  |  |  |
|------------|---------------------|-------------------|--------------|--------------|----|--|--|--|
| Button Set | Button Settings     |                   |              |              |    |  |  |  |
| 🖨 Bu       | Button Function     |                   |              |              |    |  |  |  |
|            | Z                   | Exposure Comp.    | $\checkmark$ | $\checkmark$ | —  |  |  |  |
|            | $\odot$             | High Res Shot     | ✓            | $\checkmark$ | —  |  |  |  |
|            | ISO                 | ISO               | ✓            | $\checkmark$ | —  |  |  |  |
|            | AF-ON               | AF-ON             | ✓            | $\checkmark$ | —  |  |  |  |
|            | AEL                 | AEL               | ✓            | $\checkmark$ | _  |  |  |  |
|            |                     | OI View Selection | ✓            | $\checkmark$ | _  |  |  |  |
|            | ¢                   | Off               | ✓            | $\checkmark$ | _  |  |  |  |
|            | •                   | Off               | ✓            | $\checkmark$ | _  |  |  |  |
|            | ▼                   | Off               | ✓            | $\checkmark$ | _  |  |  |  |
|            | Ø                   | •                 | ✓            | $\checkmark$ | _  |  |  |  |
|            | Q                   | Preview           | ✓            | $\checkmark$ | _  |  |  |  |
|            | РВН<br>🔁            | Exposure Comp.    | ~            | ~            |    |  |  |  |
|            | PBH<br><b>[SO</b> ] | ISO               | ~            | ~            |    |  |  |  |

| Role             | Default role      | *1 | *2 | *3 |
|------------------|-------------------|----|----|----|
| PBH<br>AFON      | AF-ON             | ~  | ~  | _  |
| L-Fn             | AF Stop           | ✓  | ✓  | —  |
| Button Function  |                   |    |    |    |
|                  | Exposure Comp.    | _  | ✓  | —  |
| ۲                | ●REC              | _  | ✓  | _  |
| ISO              | ISO               | _  | ✓  | _  |
| AF-ON            | AF-ON             | _  | ✓  | _  |
| AEL              | AEL               | _  | ✓  | _  |
|                  | OI View Selection | _  | ~  | _  |
| ¢                | Off               | _  | ✓  | _  |
| •                | Off               | _  | ✓  | —  |
| ▼                | Off               | _  | ✓  | —  |
| Ø                | Peaking           | _  | ✓  | —  |
| Q                | Magnify           | _  | ✓  | —  |
| РВН<br>🔁         | Exposure Comp.    | _  | ~  | _  |
| PBH<br>ISO       | ISO               | _  | ~  | _  |
| PBH<br>Afon      | AF-ON             | _  | ~  |    |
| L-Fn             | AF Stop           | _  | ✓  |    |
| Shutter Function | Off               | _  | ~  | _  |

| Role                | Default role | *1 | *2 | *3 |
|---------------------|--------------|----|----|----|
| Menu operation by 面 | No           | —  | ✓  | _  |

#### Dial Settings

| Di             | al Function  |         |   |   |   |   |
|----------------|--|---------|---|---|---|---|
|                | Р  | Lever 1 | 🕿 : Exposure Comp.<br>🍽 : Ps  | ~ | ~ |   |
|                | r  | Lever 2 | iso<br>S: WB  | ~ | ~ |   |
|                | A  | Lever 1 | <ul><li>Exposure Comp.</li><li>Aperture Value</li></ul>   | ~ | ~ |   |
|                | A  | Lever 2 | iso<br>S: WB  | ~ | ~ |   |
|                | S Lever 1 S Lever 2 S: Exposure Comp.<br>S Lever 2 Shutter Speed | Lever 1 |   | ~ | ~ |   |
|                |  |         | ~   | ~ |   |   |
|                | M/B  | Lever 1 | <ul><li>Aperture Value</li><li>Shutter Speed</li></ul>  | ~ | ~ | _ |
|                | IVI/ D   | Lever 2 | 🕿 : Exposure Comp.<br>🍽 : ISO   | ~ | ~ |   |
| PDial Function |  |         |   |   |   |   |
|                | Р  | Lever 1 | <ul><li>Exposure Comp.</li><li>Exposure Comp.</li></ul>   | _ | ~ |   |
|                | r  | Lever 2 | <ul><li>Section 2</li><li>Section 2</li><li>Sec</li></ul> | _ | ~ |   |

|        | Role   |         | Default role  | *1 | *2 | *3 |
|--------|--|---------|---|----|----|----|
|        | A  | Lever 1 | <ul><li>Exposure Comp.</li><li>Aperture Value</li></ul>   | _  | ~  | —  |
|        | ~  | Lever 2 | Sector Secto              | _  | ~  | _  |
|        | s  | Lever 1 | <ul><li>Exposure Comp.</li><li>Shutter Speed</li></ul>  | _  | ~  | _  |
|        | 5  | Lever 2 | <ul><li>Section 2</li><li>Section 2</li><li>Sec</li></ul> | _  | ~  | _  |
|        |  | Lever 1 | <ul><li>Aperture Value</li><li>Shutter Speed</li></ul>  | _  | ~  | _  |
|        | М  | Lever 2 | <ul><li>ISO</li></ul>   | _  | ~  | _  |
| ¥ L    | <ul> <li>Loop in Menu Tab</li> <li>Dial Direction</li> <li>Exposure</li> </ul> |         | No  | _  | ✓  | _  |
| Dial D |  |         |   |    |    |    |
|        |  |         | Dial 1  | ✓  | ✓  | _  |
|        | Ps   |         | Dial 1  | ✓  | ✓  | _  |

Multi Selector Settings

| Denter Button   | Off   | ✓ | $\checkmark$ | _ |
|-----------------|-------|---|--------------|---|
| O Direction Key | [-:-] | ✓ | $\checkmark$ | _ |

Fn Lever Settings

| Fn Lever Function    | mode2 | _ | ✓ | _ |
|----------------------|-------|---|---|---|
| ₽ Fn Lever Function  | mode2 | _ | ✓ | _ |
| Fn Lever/Power Lever | Fn    | — | ✓ | _ |

|                          | Role              | Default role | *1 | *2 | *3 |  |
|--------------------------|-------------------|--------------|----|----|----|--|
| Electronic Zoom Settings |                   |              |    |    |    |  |
|                          | Elec. Zoom Speed  | Normal       | ✓  | ✓  | _  |  |
|                          | Belec. Zoom Speed | Normal       | _  | ✓  | _  |  |
| ٥١                       | Lock              | Off          | ✓  | ✓  | _  |  |

## 2. Operations

| Role             | Default role | *1 | *2           | *3 |
|------------------|--------------|----|--------------|----|
| LV Close Up Mode | mode2        | ✓  | $\checkmark$ | _  |
| () Lock          | Off          | ✓  | $\checkmark$ | _  |
| Priority Set     | No           | _  | $\checkmark$ | _  |

Menu Cursor Settings

| Page Cursor Position        | Reset    | — | $\checkmark$ | — |
|-----------------------------|----------|---|--------------|---|
| Menu Start Position         | Recently | — | $\checkmark$ | _ |
| Shortcut to B Mode Settings | On       | ✓ | $\checkmark$ | _ |

Press-and-hold Time

| End LV <b>Q</b>         | 0.7sec | ✓ | ✓            | _ |
|-------------------------|--------|---|--------------|---|
| Reset LV <b>Q</b> Frame | 0.7sec | ✓ | $\checkmark$ | _ |
| Reset 🔀                 | 0.7sec | ✓ | ✓            | _ |
| Reset 😥                 | 0.7sec | ✓ | ✓            | _ |
| Reset WBH               | 0.7sec | ✓ | ✓            | _ |
| Reset I                 | 0.7sec | ✓ | ✓            | _ |

| Role                   | Default role | *1           | *2 | *3 |
|------------------------|--------------|--------------|----|----|
| Reset 🗠                | 0.7sec       | $\checkmark$ | ✓  | —  |
| Reset 🕲                | 0.7sec       | $\checkmark$ | ~  | _  |
| Reset [····]           | 0.7sec       | $\checkmark$ | ~  | _  |
| Call EVF Auto Switch   | 0.7sec       | $\checkmark$ | ~  | _  |
| End 🖽                  | 0.7sec       | $\checkmark$ | ~  | _  |
| Reset 🖽                | 0.7sec       | $\checkmark$ | ✓  | _  |
| Switch 🖪 Lock          | 0.7sec       | $\checkmark$ | ~  |    |
| End Flicker Scan       | 0.7sec       | $\checkmark$ | ~  | _  |
| Call WB BKT Setting    | 0.7sec       | $\checkmark$ | ~  | _  |
| Call ART BKT Setting   | 0.7sec       | $\checkmark$ | ✓  | _  |
| Call Focus BKT Setting | 0.7sec       | $\checkmark$ | ~  |    |
| Call 🖾 Setting         | 0.7sec       | $\checkmark$ | ~  | _  |
| End GND                | 1.0sec       | $\checkmark$ | ✓  |    |
| Reset GND              | 0.7sec       | $\checkmark$ | ✓  |    |

#### 3. Live View

| Role         | Default role | *1 | *2           | *3 |
|--------------|--------------|----|--------------|----|
| LV Mode      | Standard     | ~  | $\checkmark$ | _  |
| Night Vision | Off          | ~  | $\checkmark$ | _  |
| Frame Rate   | Normal       | ✓  | ✓            | _  |
| Art LV Mode  | mode1        | ✓  | $\checkmark$ | _  |

| Role            | Default role | *1 | *2           | *3 |
|-----------------|--------------|----|--------------|----|
| Anti-Flicker LV | Off          | ~  | $\checkmark$ | _  |
| Selfie Assist   | On           | _  | $\checkmark$ | _  |

#### 4. Information

| Role                    | Default role                                       | *1 | *2 | *3 |
|-------------------------|--|----|----|----|
| EVF Style               | Style 2  | _  | ✓  | -  |
| Info Settings           | [Image Only], [Information 1] and [Information 2]: | ~  | ~  | _  |
| Info by half-pressing 💻 | On2  | ✓  | ✓  | -  |
| Info Settings           | [Image Only], [Information 1] and [Information 2]: | ~  | ~  | -  |
| Level Gauge             | On   | ✓  | ✓  | _  |
| ₽ Info Settings         | [Image Only], [Information 1]: 🗸                   | _  | ✓  | -  |

## 5. Grid/Other Displays

| Role | Default role | *1 | *2 | *3 |
|------|--------------|----|----|----|
|------|--------------|----|----|----|

Grid Settings

| Display Color     | Preset 1                   | ✓ | $\checkmark$ | — |
|-------------------|----------------------------|---|--------------|---|
| Displayed Grid    | Off                        | ✓ | $\checkmark$ | _ |
| Color of Preset 1 | R/G/B: 38<br>α: 75%        | ~ | ~            |   |
| Color of Preset 2 | R: 180<br>G/B: 0<br>α: 75% | ~ | ✓            | _ |

| Role | Default role | *1 | *2 | *3 |
|------|--------------|----|----|----|
|------|--------------|----|----|----|

Grid Settings

| Exclusive for 🗖   | Off                        | ✓            | $\checkmark$ | _ |
|-------------------|----------------------------|--------------|--------------|---|
| Display Color     | Preset 1                   | $\checkmark$ | $\checkmark$ | _ |
| Displayed Grid    | Off                        | $\checkmark$ | $\checkmark$ | _ |
| Color of Preset 1 | R/G/B: 38<br>α: 75%        | ~            | ~            | _ |
| Color of Preset 2 | R: 180<br>G/B: 0<br>α: 75% | ✓            | ~            | _ |

#### Grid Settings

|       | Exclusive for $oldsymbol{B}$ | Off                        |              | ✓ | — |
|-------|------------------------------|----------------------------|--------------|---|---|
|       | Display Color                | Preset 1                   | _            | ✓ | _ |
|       | Displayed Grid               | Off                        | _            | ✓ | _ |
|       | Color of Preset 1            | R/G/B: 38<br>α: 75%        | _            | ~ | _ |
|       | Color of Preset 2            | R: 180<br>G/B: 0<br>α: 75% |              | ~ |   |
| Multi | Function Settings            | All items except ISO: 🗸    | $\checkmark$ | ✓ | _ |

#### Histogram Settings

| Highlight | 255 | ~ | ✓            | — |
|-----------|-----|---|--------------|---|
| Shadow    | 0   | ✓ | $\checkmark$ | — |

## ັງ Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

#### 1. Card/Folder/File

| Role            | Default role | *1 | *2 | *3 |
|-----------------|--------------|----|----|----|
| Card Formatting | —            | —  | —  | —  |

Card Slot Settings

|                    | Save Settings     | Standard      | $\checkmark$ | ✓ | _ |
|--------------------|-------------------|---------------|--------------|---|---|
|                    | Save Slot         | 1             | $\checkmark$ | ✓ | _ |
|                    | ►Slot             | 1             | ✓            | ✓ | _ |
| <b>₽</b> Ca        | ard Slot Settings | 1             | $\checkmark$ | ✓ | _ |
| Assign Save Folder |                   | Do not assign | _            | ✓ | _ |
| File Name          |                   | Reset         | _            | ✓ | _ |

Edit Filename

| sRGB      | MDD | — | ~ | — |
|-----------|-----|---|---|---|
| Adobe RGB | MDD | — | ~ | — |

#### 2. Information Record

| Role               | Default role | *1 | *2 | *3 |
|--------------------|--------------|----|----|----|
| Lens Info Settings | Off          | _  | ✓  | —  |
| dpi Settings       | 350dpi       | ~  | ~  | _  |

|                 | Role            | Default role | *1 | *2 | *3 |  |  |
|-----------------|-----------------|--------------|----|----|----|--|--|
| Copyright Info. |                 |              |    |    |    |  |  |
|                 | Copyright Info. | Off          | ✓  | ~  | _  |  |  |
|                 | Artist Name     | —            | _  | _  | _  |  |  |
|                 | Copyright Name  | _            | _  | _  | _  |  |  |

#### 3. Monitor/Sound/Connection

| Role                 | Default role | *1 | *2           | *3 |
|----------------------|--------------|----|--------------|----|
| Touchscreen Settings | On           | —  | $\checkmark$ | _  |
|                      |              |    |              |    |

Monitor Adjust

| 🔅 (Brightness)                     | ±0     | ✓            | ✓ | — |
|------------------------------------|--------|--------------|---|---|
| I <sup>E</sup> (Color temperature) | A0, G0 | $\checkmark$ | ✓ | — |

EVF Adjust

| 🔅 (Brightness)                         | Auto   | ~ | ✓            | _ |
|--|--------|---|--------------|---|
| $ \mathbf{I}^{z} $ (Color temperature) | A0, G0 | ✓ | $\checkmark$ | _ |

Eye Sensor Settings

|      | EVF Auto Switch        | On              | — | $\checkmark$ | _ |
|------|------------------------|-----------------|---|--------------|---|
|      | Behavior when switched | Maintain Screen | _ | $\checkmark$ | _ |
|      | When Monitor is Opened | Inoperative     | _ | $\checkmark$ | _ |
| ■))) |                        | On              | ✓ | ✓            | _ |

HDMI Settings

| Output Size       | 4К           | _ | ✓ | _ |
|-------------------|--------------|---|---|---|
| Output Frame Rate | 60p Priority | — | — | — |

|     | Role                  | Default role | *1 | *2           | *3 |  |  |
|-----|-----------------------|--------------|----|--------------|----|--|--|
| USB | USB Settings          |              |    |              |    |  |  |
|     | USB Mode              | Select       | _  | $\checkmark$ | _  |  |  |
|     | Power Supply from USB | Yes          |    | $\checkmark$ | _  |  |  |

### 4. Wi-Fi/Bluetooth

| Role                     | Default role | *1 | *2 | *3 |
|--------------------------|--------------|----|----|----|
| Airplane Mode            | Off          | —  | ✓  | _  |
| Bluetooth                | Off          | _  | ~  | _  |
| Wireless Shutter Setting | _            | _  | _  | _  |
| Wi-Fi Connection         | _            | _  | ~  | _  |

#### Galaxia Settings

| Power-off Standby   | Off | _ | ~ | _ |
|---------------------|-----|---|---|---|
| Connection Password | _   | _ |   | _ |
| Reset 🛛 Settings    | —   | _ | — | _ |

Wi-Fi PC Settings

| Wi-Fi MAC Address       | _ | — | _ | _ |
|-------------------------|---|---|---|---|
| Reset Wi-Fi PC Settings | _ | _ |   | _ |

### 5. Battery/Sleep

| Role             | Default role | *1 | *2           | *3 |
|------------------|--------------|----|--------------|----|
| Battery Status   | —            | _  | —            | —  |
| Battery Priority | PBH Battery  | _  | $\checkmark$ | _  |

| Role                | Default role | *1 | *2           | *3 |
|---------------------|--------------|----|--------------|----|
| 🛱 💷 Display Pattern | min          | _  | $\checkmark$ | _  |
| Backlit LCD         | Hold         | ~  | $\checkmark$ | _  |
| Sleep               | 1min         | ✓  | $\checkmark$ | _  |
| Auto Power Off      | 4h           | ~  | $\checkmark$ | _  |

Quick Sleep Mode

| Quick Sleep Mode | Off   | ~ | ~ | — |
|------------------|-------|---|---|---|
| Backlit LCD      | 8sec  | ✓ | ~ | _ |
| Sleep            | 10sec | ~ | ~ | _ |

## 6. Reset/Clock/Language/Others

|            | Role                       | Default role | *1 | *2           | *3 |
|------------|----------------------------|--------------|----|--------------|----|
| Rese       | et/Initialize All Settings |              |    |              |    |
|            | Reset Shooting Settings    | _            | _  |              | _  |
|            | Initialize All Settings    | _            | —  |              | _  |
| 0          | Settings                   |              |    |              |    |
|            | ٥                          | _            | _  | _            | _  |
|            | Time Zone                  | _            | _  |              | _  |
| <b>ę</b> . |                            | _            | _  | _            | _  |
| Leve       | el Adjust                  | _            | _  | $\checkmark$ | _  |
| Pixe       | l Mapping                  | _            | —  | —            | _  |
| Firm       | ware Version               | _            | —  |              | _  |
| Cert       | ification                  | _            | _  |              | _  |

## **Memory Card Capacity**

## Memory Card Capacity: Photos

Figures are for a 64 GB SDXC card used to record photos with an aspect ratio of 4:3.

| Record<br>mode | Image size<br>(Pixel count) | Compression<br>ratio     | File<br>format | File size (MB)<br>(approx.) | Number of<br>storable still<br>pictures |  |
|----------------|-----------------------------|--------------------------|----------------|-----------------------------|---|--|
| 80m F          | (Tripod)<br>10368 × 7776    | Loss-less<br>compression | ORF            |                             |   |  |
| +RAW           | 10368 × 7776                | 1/4                      | JPEG           | (Tripod)<br>183.7           | (Tripod)<br>233                         |  |
| (12bit)        | 5184 × 3888                 | Loss-less<br>compression | ORI            |                             |   |  |
|                | (Tripod)<br>10368 × 7776    | Loss-less<br>compression | ORF            |                             |   |  |
| 50m F<br>+ RAW | (Handheld)<br>8160 × 6120   |                          |                | (Tripod)<br>170.5           | (Tripod)<br>262                         |  |
| (12bit)        | 8160 × 6120                 | 1/4                      | JPEG           | (Handheld)<br>123.0         | (Handheld)<br>330                       |  |
|                | 5184 × 3888                 | Loss-less<br>compression | ORI            |                             |   |  |
|                | (Tripod)<br>10368 × 7776    | Loss-less<br>compression | ORF            |                             |   |  |
| 25⊪ F<br>+ RAW | (Handheld)<br>8160 × 6120   |                          |                | (Tripod)<br>159.8           | (Tripod)<br>292                         |  |
| (12bit)        | 5760 × 4320                 | 1/4                      | JPEG           | (Handheld)<br>112.3         | (Handheld)<br>410                       |  |
|                | 5184 × 3888                 | Loss-less<br>compression | ORI            |                             |   |  |

| Record<br>mode         | Image size<br>(Pixel count) | Compression<br>ratio     | File<br>format | File size (MB)<br>(approx.)              | Number of<br>storable still<br>pictures |
|------------------------|-----------------------------|--------------------------|----------------|--|---|
| 80m F                  | (Tripod)<br>10368 × 7776    | Loss-less<br>compression | ORF            |  |   |
| +RAW                   | 10368 × 7776                | 1/4                      | JPEG           | (Tripod)<br>197.0                        | (Tripod)<br>223                         |
| (14bit)                | 5184 × 3888                 | Loss-less<br>compression | ORI            |  |   |
|                        | (Tripod)<br>10368 × 7776    | Loss-less                | ORF            |  |   |
| 50m F<br>+ RAW         | (Handheld)<br>8160 × 6120   | compression              | UNI            | (Tripod)<br>183.8<br>(Handheld)<br>132.0 | (Tripod)<br>249                         |
| (14bit)                | 8160 × 6120                 | 1/4                      | JPEG           |  | (Handheld)<br>315                       |
|                        | 5184 × 3888                 | Loss-less<br>compression | ORI            |  |   |
|                        | (Tripod)<br>10368 × 7776    | Loss-less<br>compression | ORF            | (Tripod)<br>173.1<br>(Handheld)<br>121.2 |   |
| <b>25</b> ⋒ F<br>+ RAW | (Handheld)<br>8160 × 6120   |                          | UNI            |  | (Tripod)<br>275                         |
| (14bit)                | 5760 × 4320                 | 1/4                      | JPEG           |  | (Handheld)<br>386                       |
|                        | 5184 × 3888                 | Loss-less<br>compression | ORI            |  |   |
| 80m F                  | 10368 × 7776                | 1/4                      | JPEG           | 35.2                                     | 1564                                    |
| 50m F                  | 8160 × 6120                 | 1/4                      | JPEG           | 22                                       | 2503                                    |
| 25m F                  | 5760 × 4320                 | 1/4                      | JPEG           | 11.2                                     | 4882                                    |

| Record<br>mode | Image size<br>(Pixel count) | Compression<br>ratio     | File<br>format | File size (MB)<br>(approx.) | Number of<br>storable still<br>pictures |
|----------------|-----------------------------|--------------------------|----------------|-----------------------------|---|
| RAW            |                             | Loss-less<br>compression | ORF            | 22.4                        | 2727                                    |
| LSF            | 5184 × 3888                 | 1/2.7                    |                | 13.4                        | 4103                                    |
| F              |                             | 1/4                      | JPEG           | 9.2                         | 5954                                    |
| <b>N</b>       |                             | 1/8                      |                | 4.9                         | 11355                                   |
| M1 SF          |                             | 1/2.7                    |                | 5.4                         | 10172                                   |
| M1 F           | 3200 × 2400                 | 1/4                      | JPEG           | 3.8                         | 14360                                   |
| M1 N           |                             | 1/8                      |                | 2.2                         | 24413                                   |
| M2 SF          |                             | 1/2.7                    |                | 2.3                         | 24413                                   |
| <b>M2</b> F    | 1920 × 1440                 | 1/4                      | JPEG           | 1.7                         | 32551                                   |
| <b>M2</b> N    |                             | 1/8                      |                | 1.1                         | 48827                                   |
| S1 SF          |                             | 1/2.7                    |                | 1.3                         | 40689                                   |
| <b>S1</b> F    | 1280 × 960                  | 1/4                      | JPEG           | 1.1                         | 48827                                   |
| <b>S1</b> N    |                             | 1/8                      |                | 0.4                         | 122067                                  |
| <b>S2</b> SF   |                             | 1/2.7                    |                | 1.1                         | 54252                                   |
| <b>S2</b> F    | 1024 × 768                  | 1/4                      | JPEG           | 0.5                         | 122067                                  |
| <b>S2</b> N    |                             | 1/8                      |                | 0.3                         | 162756                                  |

- The number of storable still pictures may change according to the subject, whether or not print reservations have been made, and other factors. In certain instances, the number of storable still pictures displayed on the monitor will not change even when you take pictures or erase stored images.
- The actual file size varies according to the subject.
- The maximum number of storable still pictures displayed on the monitor is 9999.

## Memory Card Capacity: Movies

Figures are for a 64 GB SDXC memory card.

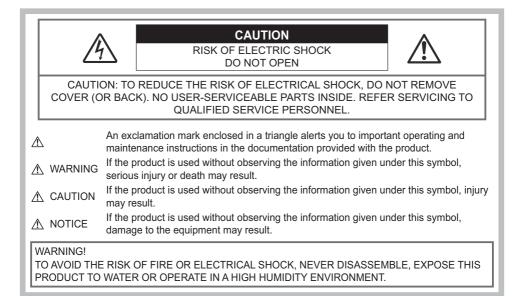
|     |        |                        | Capacity (approx.)                    |                                       |  |
|-----|--------|------------------------|---------------------------------------|---------------------------------------|--|
|     |        | Playback<br>Frame Rate | [윤 Video<br>Codec]:<br>Set to [H.264] | [윤 Video<br>Codec]:<br>Set to [H.265] |  |
|     | 59.94p | 41 minutes             | 54 minutes                            |                                       |  |
|     |        | 50.00p                 | 41 minutes                            | 54 minutes                            |  |
| C4K | _      | 29.97p                 | 80 minutes                            | 105 minutes                           |  |
| C4K |        | 25.00p                 | 80 minutes                            | 105 minutes                           |  |
|     |        | 24.00p                 | 80 minutes                            | 105 minutes                           |  |
|     |        | 23.98p                 | 80 minutes                            | 105 minutes                           |  |
|     | _      | 59.94p                 | 41 minutes                            | 54 minutes                            |  |
|     |        | 50.00p                 | 41 minutes                            | 54 minutes                            |  |
| 4K  |        | 29.97p                 | 80 minutes                            | 105 minutes                           |  |
|     |        | 25.00p                 | 80 minutes                            | 105 minutes                           |  |
|     |        | 23.98p                 | 80 minutes                            | 105 minutes                           |  |

|                     |       |                        | Capacity (approx.)                    |                                       |  |
|---------------------|-------|------------------------|---------------------------------------|---------------------------------------|--|
| Movie<br>Resolution |       | Playback<br>Frame Rate | [윤 Video<br>Codec]:<br>Set to [H.264] | [給 Video<br>Codec]:<br>Set to [H.265] |  |
|                     |       | 59.94p                 | _                                     | 51 minutes                            |  |
|                     | A-1   | 50.00p                 | _                                     | 51 minutes                            |  |
|                     |       | 29.97p                 | 41 minutes                            | 98 minutes                            |  |
|                     |       | 25.00p                 | 41 minutes                            | 98 minutes                            |  |
| FHD                 |       | 23.98p                 | 41 minutes                            | 98 minutes                            |  |
| FND                 | L-GOP | 59.94p                 | 152 minutes                           | 187 minutes                           |  |
|                     |       | 50.00p                 | 152 minutes                           | 187 minutes                           |  |
|                     |       | 29.97p                 | 281 minutes                           | 338 minutes                           |  |
|                     |       | 25.00p                 | 281 minutes                           | 338 minutes                           |  |
|                     |       | 23.98p                 | 281 minutes                           | 338 minutes                           |  |

- Figures are for footage recorded at the maximum frame rate. The actual bit rate varies with the frame rate and scene recorded.
- When an SDXC card is used, movies up to 3 hours long can be recorded. Movies over 3 hours are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 3-hour limit is reached).
- When an SD/SDHC card is used, movies over 4 GB in size are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 4 GB limit is reached).

## **SAFETY PRECAUTIONS**

## SAFETY PRECAUTIONS



## **General Precautions**

**Read All Instructions** — Before you use the product, read all operating instructions. Save all manuals and documentation for future reference.

**Power Source** — Connect this product only to the power source described on the product label.

Foreign Objects — To avoid personal injury, never insert a metal object into the product.

**Cleaning** — Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.

**Heat** — Never use or store this product near any heat source such as a radiator, heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.

**Lightning** — If a lightning storm occurs while using a USB-AC adapter, remove it from the wall outlet immediately.

**Attachments** — For your safety, and to avoid damaging the product, use only accessories recommended by our company.

**Location** — To avoid damage to the product, mount the product securely on a stable tripod, stand, or bracket.

## 

- Do not use the camera near flammable or explosive gases.
- Rest your eyes periodically when using the viewfinder.

Failure to observe this precaution could result in eyestrain, nausea, or sensations similar to motion sickness. The length and frequency of the required rest varies with the individual; use your own judgement. If you feel tired or unwell, avoid using the viewfinder and if necessary consult a physician.

- Do not use the flash and LED (including AF illuminator) on people (infants, small children, etc.) at close range.
  - You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.
- Do not look at the sun or strong lights with the camera.
- Keep young children, infants away from the camera.
  - Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
    - Becoming entangled in the camera strap, causing strangulation.
    - Accidentally swallowing the battery, cards or other small parts.
    - Accidentally firing the flash into their own eyes or those of another child.
    - Accidentally being injured by the moving parts of the camera.
- If you find that the USB-AC adapter or charger is extremely hot or notice any unusual odors, noise, or smoke around it, unplug the power plug from wall outlet immediately and stop using it. Then, contact an authorized distributor or service center.
- Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.
  - Never remove the batteries with bare hands, which may cause a fire or burn your hands.
- Never hold or operate the camera with wet hands.

This may cause overheating, exploding, burning, electrical shocks, or malfunctions.

- Do not leave the camera in places where it may be subject to extremely high temperatures.
  - Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire. Do not use the charger or USB-AC adapter if it is covered (such as a blanket). This could cause overheating, resulting in fire.
- Handle the camera with care to avoid getting a low temperature burn.
  - When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
    - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
    - In places subject to extremely cold temperatures, the temperature of the camera's body may be lower than the environmental temperature. If possible, wear gloves when handling the camera in cold temperatures.
- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:

- Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
- In sandy or dusty environments.
- Near flammable items or explosives.
- In wet places, such as bathrooms or in the rain.
- In places prone to strong vibrations.
- The camera uses a lithium ion battery specified by our company. Charge the battery with the specified USB-AC adapter or charger. Do not use any other USB-AC adapters or chargers.
- Never incinerate or heat batteries in microwaves, on hot plates, or in pressure vessels, etc.
- Never leave the camera on or near electromagnetic devices. This may cause overheating, burning, or exploding.
- Do not connect terminals with any metallic objects.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, keys, etc. The short circuit may cause overheating, exploding, or burning, which burn or damage you.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- If you cannot remove the battery from the camera, contact an authorized distributor or service center. Do not try to remove the battery by force.

Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.

- Always store batteries out of the reach of small children and pets. If they accidentally swallow a battery, seek medical attention immediately.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use batteries with scratches or damage to the casing, and do not scratch the battery.
- Never subject batteries to strong shocks or continuous vibration by dropping or hitting. This may cause exploding, overheating, or burning.
- If a battery leaks, has unusual odor, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera, and keep away from fire immediately.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Never use lithium-ion batteries in a low-temperature environment. Doing so may cause generation of heat, ignition, or explosion.
- The lithium-ion battery is designed to be used only for the digital camera. Do not use the battery to other devices.
- Do not allow children or animals/pets to handle or transport batteries (prevent dangerous behaviour such as licking, putting in mouth or chewing).

## Use Only Dedicated Rechargeable Battery, Battery Charger and USB-AC adapter

We strongly recommend that you use only the genuine rechargeable battery, battery charger, and USB-AC adapter specified by our company with this camera. Using a non-genuine rechargeable battery, battery charger and/or USB-AC adapter may result in fire or personal injury due to leakage, heating, ignition or damage to the battery. Our company does not assume any liability for accidents or damage that may result from the use of a battery, battery charger, and/or USB-AC adapter that are not specified genuine accessories.

## 

- Do not cover the flash with a hand while firing.
- The included USB-AC adapter F-7AC is designed to be used only with this camera. Other cameras cannot be charged with this USB-AC adapter.
- Do not connect the included USB-AC adapter F-7AC to equipment other than this camera.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- Keep batteries dry at all times.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- This camera uses one of our lithium-ion batteries. Use the specified genuine battery. There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.

## 

- Do not use or store the camera in dusty or humid places.
- Use SD/SDHC/SDXC memory cards only. Never use other types of cards.

If you accidently insert another type of card into the camera, contact an authorized distributor or service center. Do not try to remove the card by force.

- Regularly backup important data to a computer or other storage device to prevent accidental loss.
- Our company accepts no liability for any loss of data associated with this device.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects and cause serious damage.
- Before transporting the camera, remove a tripod and all other accessories made by other companies.
- Never drop the camera or subject it to severe shocks or vibrations.
- When attaching the camera to or removing it from a tripod, rotate the tripod screw, not the camera.
- Do not touch electric contacts on cameras.

- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image sensor, or may possibly cause fires.
- Do not leave the viewfinder exposed to a strong light source or direct sunlight. The heat may damage the viewfinder.
- Do not push or pull severely on the lens.
- Be sure to remove any water droplets or other moisture from the product before replacing the battery or opening or closing covers.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter button to make sure that it is operating normally.
- The camera may malfunction if it is used in a location where it is subject to a magnetic/ electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the camera off and on again before further operation.
- Always observe the operating environment restrictions described in the camera's manual.
- Insert the battery carefully as described in the operating instructions.
- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- Always unload the battery from the camera before storing the camera for a long period.
- When storing the battery for a long period, select a cool location for storage.
- For plug-in type USB-AC adapter: Connect the plug-in type USB-AC adapter F-7AC correctly by plugging it vertically into the wall outlet.
- As the main plug of AC adapter is used to disconnect the AC adapter from the mains, connect it to an easily accessible AC outlet.
- Power consumption by the camera varies depending on which functions are used.
- During the conditions described below, power is consumed continuously and the battery becomes exhausted quickly.
  - The zoom is used repeatedly.
  - The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus.
  - A picture is displayed on the monitor for an extended period of time.
- Using an exhausted battery may cause the camera to turn off without displaying the battery level warning.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.

## Using the wireless LAN/Bluetooth<sup>®</sup> functions

• Turn off the camera in hospitals and other locations where medical equipment is present. The radio waves from the camera may adversely affect medical equipment, causing a malfunction that results in an accident. Be sure to disable wireless LAN/**Bluetooth**<sup>®</sup> functions in the vicinity of medical equipment (P.424).

• Turn off the camera when onboard aircraft. Using wireless devices onboard may hinder safe operation of the aircraft. Be sure to disable wireless LAN/Bluetooth<sup>®</sup> functions onboard aircraft (P.424).

• Do not use this product where it may interfere with nearby radar systems.

## Monitor

- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a playback mode failure or damage to the monitor.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; it will be less noticeable in playback mode.
- In places subject to low temperatures, the monitor may take a long time to turn on or its color may change temporarily.

When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. The monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.

• The monitor of this product is manufactured with high-quality accuracy, however, there may be a stuck or dead pixel on the monitor. These pixels do not have any influence on the image to be saved. Because of the characteristics, the unevenness of the color or brightness may also be found depending on the angle, but this is due to the structure of the monitor. This is not a malfunction.

## Legal and Other Notices

- Our company makes no representations or warranties regarding any damages, or benefit expected by using this unit lawfully, or any request from a third person, which are caused by the inappropriate use of this product.
- Our company makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.

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# Additions/modifications by firmware update

# Additions/modifications by the firmware version 1.1

The following functions are added/modified by firmware update.

- Smartphone Connection Security Settings (P.566)
- Default Settings (P.567)

## Setting Smartphone Connection Security ( Connection Security)

Set the security when connecting to a smartphone via Wi-Fi.



- ⑦ If set to [WPA2/WPA3], a smartphone may not be connected via Wi-Fi. In such a case, set to [WPA2].
- ② Changing the settings will change both the Wi-Fi connection password and **Bluetooth**<sup>®</sup> connection passcode.
- ② Pair the camera and a smartphone again after changing passwords. I "Pairing the Camera and Smartphone (Wi-Fi Connection)" (P.426)
- ② Executing [Reset ] Settings] (P.436) will initialize [] Connection Security].

## **Default Settings**

## ຳ Tab

- \*1: Can be added to [Assign].
- \*2: Default can be restored by selecting [Initialize All Settings].
- \*3: Default can be restored by selecting [Reset Shooting Settings].

#### 4. Wi-Fi/Bluetooth

|      | Role Default role   |           | *1 | *2 | *3 |
|------|---------------------|-----------|----|----|----|
| 🛛 Se | ettings             |           |    |    |    |
|      | Connection Security | WPA2/WPA3 | _  | _  | _  |

date of issue 2024.01.



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WD910001