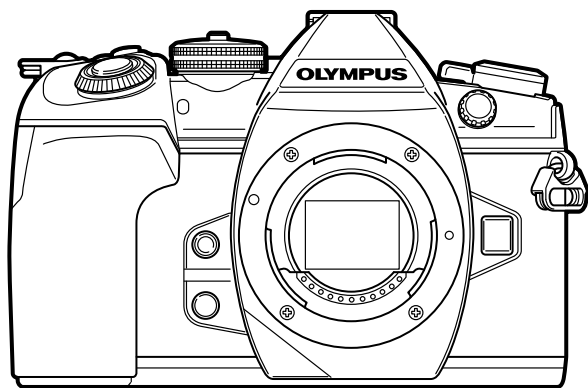# OLYMPUS

DIGITAL CAMERA
E-M1 MarkII

Movie Guide

About This Guide

- This is a guide to movie-related features and how to configure them. Detailed information on such topics as taking photographs and camera specifications can be found in the camera instruction manual.
- The screen and camera illustrations shown in this guide were produced during product development 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 the Olympus website.

Movie Mode

Recording Movies

This camera features both a dedicated "movie (♫) mode" and photo shoot-ing modes that can be used to record movies.
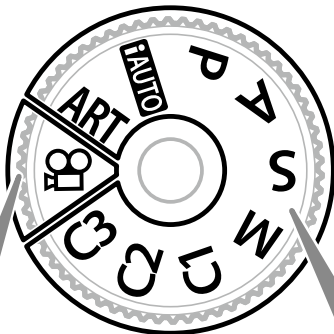
Mode dial

Movie (♫) Mode

Features a specialized movie menu with unique movie op-tions separate from those for photos.

Choose for concentrated movie recording.

Other Modes

Record movies using photo set-tings. *

Choose when recording movies in the intervals between photos.

* Settings for some features may differ.

The main focus of this guide is the recording of movies in "movie mode".

Adjusting Movie Settings

Movie settings can be adjusted using the LV super control panel, menu, or live control as described below.

Using the LV Super Control Panel

Use the LV super control panel to view and adjust shooting settings.

1 Press the ⊛ button to view the LV super control panel.

- If the live control is displayed, press the **INFO** button to cycle the display. Note that display selection is not available when settings such as [♀◄⋮⋅] are selected, in which case you will need to select a different setting before pressing the **INFO** button.

2 Use the arrow pad to highlight the desired item and press the ⊛ button.

- You can also choose items using the rear dial.

3 Highlight an option using the left and right arrow buttons and press the ⊛ button.

- You can also choose options using the front dial.
- The highlighted option will be selected automatically if no operations are performed for about 8 seconds.
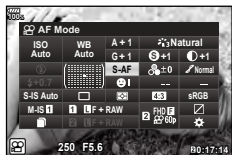
Using the Menus

The menus contain shooting and playback options not available in the LV super control panel and the like and can be used to customize camera settings for ease of use.

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

- A tip will be displayed when an item is highlighted.
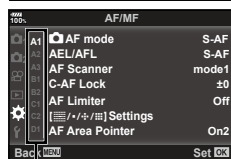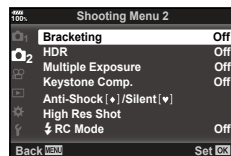- Press the **INFO** button to view or hide tips.

3

2 Use the up and down arrow buttons to highlight a tab and press the ⊛ button.

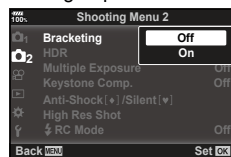|	Shooting Menu 2	
ⓄI₁	Bracketing	Off
Ⓞ₂	HDR	Off
	Multiple Exposure	Off
	Keystone Comp.	Off
	Anti-Shock[♦]/Silent[♥]	
✿	High Res Shot	
✈	↯ RC Mode	Off
Back 🔲		Set 🔲

- The menu group tab appears when the ✿ Custom Menu is selected. Use the up and down arrow buttons to highlight a menu group and press the ⊛ button.

	AF/MF	
A1	✿ AF mode	S-AF
	AEL/AFL	S-AF
	AF Scanner	mode1
	C-AF Lock	±0
	AF Limiter	Off
✿	[▤/·/÷/▥] Settings	
	AF Area Pointer	On2
Back 🔲		Set 🔲

Menu group

3 Highlight an item using the up and down arrow buttons and press the ⊛ button to display options for the highlighted item.

4 Use the up and down arrow buttons to highlight an option and press the ⊛ button to select.

	Shooting Menu 2	
ⓄI₁	Bracketing	**Off**
Ⓞ₂	HDR	**On**
	Multiple Exposure	Off
	Keystone Comp.	Off
	Anti-Shock[♦]/Silent[♥]	
	High Res Shot	
	↯ RC Mode	Off
Back 🔲		Set 🔲

Using the Live Control

Use the live control to adjust settings while viewing your subject.

1 Press the ⊛ button to view the live control.

- If the LV super control panel is displayed, press the **INFO** button to cycle the display. Note that display selection is not available when settings such as [♪◉◀:] are selected, in which case you will need to select a different setting before pressing the **INFO** button.

2 Use the up and down arrow buttons to highlight the desired item and the left and right arrow buttons to choose an option.

- You can also adjust settings using the front or rear dial.
- The highlighted option will be selected automatically if no operations are performed for about 8 seconds.

3 Press the ⊛ button.

Options   Settings

The LV Super Control Panel and Live Control Displays
Use **[♪ Display Settings]** > **[♪ Control Settings]** (P.29) in the movie menu to view or hide the LV super control panel or live control.

Movie Options

Option	Description	Applies to	Accessed via	☞
♫ ◀ (Image Quality)	Adjust such settings as movie resolution, compression/bit rate, and frame rate.	Movies only	LV super control panel	P.6
♫ Exposure Mode	Choose the exposure mode for movie recording.	Movies only	Menus, live control	P.10
Exposure Compensation	Adjust exposure.	Movies/photos	Dials	P.10
Aperture	Choose an aperture for **A** and **M** modes.	Movies/photos	Dials	P.10
Shutter Speed	Choose the shutter speed at which each frame is recorded.	Movies/photos	Dials	P.10
Picture Mode	Select a picture mode.	Movies/photos	LV super control panel, live control	P.11
♫ Picture Mode	Optimize tones for movie recording.	Movies only	Menus	P.11
White Balance	Adjust hues so that white objects appear white.	Movies/photos	LV super control panel, live control	P.12
All WBⓏ	Apply a single white balance compensation value across all white balance modes.	Movies/photos	Menus	P.13
WB AUTO Keep Warm Color	Preserve "warm" colors in pictures taken under incandescent lighting.	Movies/photos	Menus	P.13
♫ AF Mode	Select a focusing method (focus mode).	Movies only	LV super control panel, menus, live control	P.14
Preset MF Distance	Choose a focus position for preset MF.	Movies only	Menus	P.15
MF Assist	Choose focus assist options for manual focus.	Movies/photos	Menus	P.16
Magnify	The display zooms in during focus operations.			
Peaking	Areas of peak contrast are shown during focus operations.			
Peaking Settings	Choose colors for the peaking display.	Movies/photos	Menus	P.16
MF Clutch	Enable or disable the MF clutch on lenses with an MF clutch.	Movies/photos	Menus	P.16
AF Area	Choose a target selection method and target size.	Movies/photos	LV super control panel, live control	P.17
Touch AF	Focus using touch controls.	Movies/photos	Touch controls	P.17
Face Priority AF/ Eye Priority AF	Give priority to faces or eyes when focusing.	Movies/photos	LV super control panel, live control	P.17
Movie ♀	Movie sound settings.	Movies only	Menus, live control	P.18
Recording Volume	Adjust the sensitivity of built-in and external microphones.			
♀ Volume Limiter	Limit microphone sensitivity.			
Wind Noise Reduction	Reduce wind noise.			
♀ Plug-in Power	Choose whether to supply power to external microphones.			
PCM Recorder ♀ Link	Adjust settings for IC recorders connected to the microphone jack.			
Headphone Volume	Adjust headphone volume.			
Card Slot Settings	Choose the card slot used for shooting or playback when two cards are inserted.	Movies/photos	Menus	P.19
ⓞ Save Settings	Choose how movies are saved.	Movies/photos	LV super control panel, menus	P.20
♫ Image Stabilizer	Choose an image stabilization option for movie recording.	Movies only	LV super control panel, menus, live control	P.21
♫ HDMI Output	Adjust settings for connection to HDMI devices when recording movies.	Movies only	Menus	P.22
ISO Sensitivity	Choose an ISO sensitivity for mode **M** (other modes use AUTO).	Movies/photos	LV super control panel, live control	P.22
Sharpness	Adjust sharpness.	Movies/photos	LV super control panel	P.23
Contrast	Adjust contrast.	Movies/photos	LV super control panel	P.23
Saturation	Adjust color saturation (vividness).	Movies/photos	LV super control panel	P.23
Gradation	Adjust tone.	Movies/photos	LV super control panel	P.24
Highlight&Shadow	Adjust the brightness of highlights and shadows.	Movies/photos	LV super control panel	P.24
♫ Noise Filter	Reduce noise in movies filmed at high ISO sensitivities.	Movies only	Menus	P.25
♫ Button Function	Customize buttons for use in movie mode.	Movies only	Menus	P.25
♫ Dial Function	Customize dials for use in movie mode.	Movies only	Menus	P.28
♫ Fn Lever Function	Customize the **Fn** lever for use in movie mode.	Movies only	Menus	P.28
♫ Shutter Function	Choose the role played by the shutter button in movie mode.	Movies only	Menus	P.29
♫ Elec. Zoom Speed	Choose a power zoom speed for movie mode.	Movies only	Menus	P.29
♫ Control Settings	Choose LV super control panel and live control display options for movie mode.	Movies only	Menus	P.29

| Option	Description	Applies to	Accessed via	☞
♫ Info Settings	Choose information display options for movie mode.	Movies only	Menus	P.29
Time Code Settings	Choose time code options.	Movies only	Menus	P.30
Time Code Mode	Choose from drop frame/no drop frame.			
Count Up	Choose from recording run/free run.			
Starting Time	Choose the time code start time.			
🔋 Display Pattern	Choose whether the camera displays the battery level as a percentage or number of minutes remaining.	Movies only	Menus	P.30
My Clips	Record short clips in a specialized ♫ image quality mode and then combine the clips into a longer movie.	Movies only	LV super control panel, menus, live control	P.31
Movie Effect	Record movies with special effects.	Movies only	Touch controls	P.39
Movie Tele-converter	Zoom in on the area of the monitor selected with touch controls, up to a maximum of 3×.	Movies only	Touch controls	P.40
Silent Shooting	To reduce the sounds made by camera controls during movie recording, touch controls can be used for power zoom, recording volume, aperture, shutter speed, exposure compensation, ISO sensitivity, and/or headphone volume adjustment.	Movies only	Touch controls	P.41
Play Movie	View movies.	Movies only	Playback display	P.42
Movie Trimming	Trim footage from movies.	Movies only	Playback display	P.43
Saving Movie Stills	Create a still from a selected frame.	Movies only	Playback display	P.43
Share Order	Select photos and movies for later transfer to a smartphone using OI.Share.	Movies/photos	Playback display	P.44
🔒 (Protect)	Protect photos and movies from accidental deletion.	Movies/photos	Playback display	P.44
Slideshow	View a slide show of the photos and movies on the card.	Movies/photos	Playback display	P.45
Erase	Delete the current photo or movie.	Movies/photos	Playback display	P.45
Focus Ring	Choose the direction of the focus ring.	Movies/photos	Menus	P.46
Reset Lens	Choose whether turning the camera off resets focus.	Movies/photos	Menus	P.46
Flicker Reduction	Reduce the effects of flicker.	Movies/photos	Menus	P.46
Grid Settings	Adjust settings for the framing grid display.	Movies/photos	Menus	P.46
File Name	Choose how the camera numbers the files and folders on the memory card.	Movies/photos	Menus	P.47
Edit Filename	Choose how the camera names image files.	Movies/photos	Menus	P.47
Quick Erase	Choose whether a confirmation dialog is displayed when you press the 🗑 button during playback.	Movies/photos	Menus	P.47
Priority Set	Choose the default selection (**[Yes]** or **[No]**) for confirmation dialogs.	Movies/photos	Menus	P.48
EVF Auto Switch	Choose whether the viewfinder turns on when you put your eye to the viewfinder.	Movies/photos	Menus	P.48
EVF Adjust	Adjust viewfinder brightness and hue.	Movies/photos	Menus	P.48
EVF Style	Choose the viewfinder display style.	Movies/photos	Menus	P.48
Press-and-Hold Time	Choose how long buttons must be pressed before function assigned to "press and hold" is activated.	Movies/photos	Menus	P.49
Level Adjust	Calibrate the level gauge.	Movies/photos	Menus	P.49
Touchscreen Settings	Enable or disable touch controls.	Movies/photos	Menus	P.49
Menu Recall	Choose whether the cursor returns to its last position when menus are displayed.	Movies/photos	Menus	P.49
Battery Settings	View battery status or choose the battery used first when the camera is used with the optional power battery holder (HLD-9).	Movies/photos	Menus	P.50
Backlit LCD	Choose the delay before the backlight dims to save power.	Movies/photos	Menus	P.50
Sleep	Choose the delay before the camera enters sleep mode.	Movies/photos	Menus	P.50
Auto Power Off	Choose the delay before the camera turns off automatically.	Movies/photos	Menus	P.50
Reset	Restore default settings.	Movies/photos	Menus	P.51
Card Setup	Format memory cards or delete all images.	Movies/photos	Menus	P.51
⏱ (Date/Time Setting)	Set the clock (date and time).	Movies/photos	Menus	P.52
🌐 (Changing the Display Language)	Choose a language for the menus and other displays.	Movies/photos	Menus	P.52
🖥 (Monitor Brightness Adjustment)	Adjust monitor brightness and hue.	Movies/photos	Menus	P.52
Wi-Fi Settings	Adjust settings for wireless connections between the camera and smartphones via OI.Share.	Movies/photos	Menus	P.53
Connection to Smartphone	Establish a wireless connection between the camera and a smartphone via OI.Share.	Movies/photos	Menus	P.53

⚙️◀◾ (Image Quality)

Adjust such settings as movie resolution, compression/bit rate, and frame rate.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

**2** Use the arrow pad to highlight **[⚙️◀◾]** and press the ⊛ button.

• You can also use the rear dial.
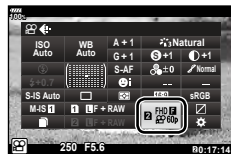
3 Use the left and right arrow buttons to highlight an image quality option and press the ⊛ button.

• The front and rear dials can be used in place of the arrow pad.
• The movie resolution, compression/bit rate, and frame rate can be chosen using the **[⚙️ Specification Settings]** > **[⚙️◀◾]** option in the movie menu before recording.

> **MENU** button ➜ ⚙️ tab ➜ **[⚙️ Specification Settings]** ➜ [⚙️◀◾] ➜ choose a mode ➜ adjust settings

Image quality option	Description
FHD F ▶■30p	Record footage for My Clips. • Movies are recorded in MPEG-4 AVC/H.264 format.
4K ⚙️30p FHD SF ⚙️60p FHD F ⚙️60p FHD N ⚙️60p	Record standard movies. • Movies are recorded in MPEG-4 AVC/H.264 format. The maximum size per file is 4 GB and the maximum length per movie is 29 minutes.
C4K ⚙️c24p	Record cinematic 4K or slow/fast playback movies. • Movies are recorded in MPEG-4 AVC/H.264 format. The maximum size per file is 4 GB and the maximum length per movie is 29 minutes.
▌HD▐	Record motion JPEG movies in HD. • The maximum size per file is 2 GB.

• Depending on the type of card used, recording may end before the maximum length is reached.
• Bit rate selection may be unavailable at some settings.
• This option can also be accessed via the menus (P.3) and live control (P.4).

■ Adjusting Image Quality Settings

When a movie image quality other than ⌷HD⌷ is highlighted, you can press the **INFO** button to access such settings as movie resolution and frame rate. The settings available vary with the image quality option selected.

1 In the movie image quality mode selection display, highlight an image quality option other than ⌷HD⌷ and press the **INFO** button.

   • The settings available for the highlighted image quality option will be displayed.

2 Use the left and right arrow buttons to highlight settings and the up and down arrow buttons to adjust.

3 Press the ⊛ button to proceed.

   • The settings available are listed below.
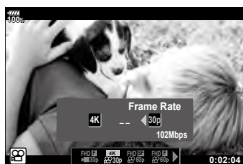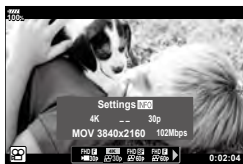
Clips

Record footage for "My Clips". You can choose the movie resolution, compression/bit rate, frame rate, and clip recording time. The clip recording time is selected using **[Clip Recording Time]**.
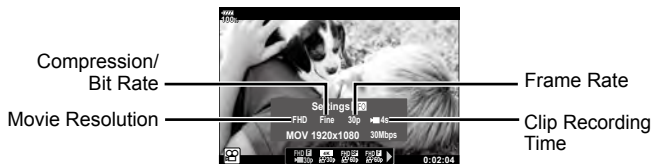
Compression/
Bit Rate

Movie Resolution

Frame Rate

Clip Recording
Time

Option	Description
Movie Resolution	4K (3840×2160), FHD (1920×1080), HD (1280×720)
Compression/Bit Rate [1]	Super Fine (superfast), Fine (fast), Normal (normal)
Frame Rate [2]	60p, 50p, 30p, 25p, 24p
Clip Recording Time (length per clip)	8 sec, 4 sec, 2 sec, 1 sec

1 Not available at a **[Movie Resolution]** of **[4K]**.
2 **[Frame Rate]** options of 60p and 50p are not available at an **[Movie Resolution]** of **[4K]**.

Standard Movies

Choose the movie resolution, compression/bit rate, and frame rate.

Compression/Bit Rate ———

Movie Resolution ———

——— Frame Rate

Option	Description
Movie Resolution	4K (3840×2160), FHD (1920×1080), HD (1280×720)
Compression/Bit Rate [1]	A-I (ALL-Intra)[2], Super Fine (superfast), Fine (fast), Normal (normal)
Frame Rate [3]	60p, 50p, 30p, 25p, 24p

1 Not available at a **[Movie Resolution]** of **[4K]**.
2 All-Intra movies are recorded without inter-frame compression. Movies in this format are suitable for editing but have larger file sizes.
3 **[Frame Rate]** options of 60p and 50p are not available at a **[Movie Resolution]** of **[4K]** or when **[A-I]** is selected for **[Compression/Bit Rate]**.

Cinematic 4K, Slow/Fast Playback Movies, and Clips

Select this mode to record cinematic 4K movies. In addition to the movie resolution, compression/bit rate, and frame rate, you can choose slow or fast motion or clip recording options.

- Use **[Slow or Fast Motion]** to choose the speed at which the movie plays back, expressed as a multiple of normal playback speed. Options greater than 1 play back at faster than normal speed, while options less than 1 play back at slower than normal speed. The frame rate is adjusted for the selected playback speed.
- To record footage for "My Clips", choose a **[Clip Recording Time]** other than **[Off]**.

Frame Rate

Compression/
Bit Rate

Movie Resolution

Clip Recording Time

Slow or Fast Motion

Option	Description
Movie Resolution	C4K [1] (4096×2160), 4K (3840×2160), FHD (1920×1080), HD (1280×720)
Compression/Bit Rate [2]	A-I (ALL-Intra)[3], Super Fine (superfast), Fine (fast), Normal (normal)
Frame Rate [4]	60p, 50p, 30p, 25p, 24p
Clip Recording Time (length per clip)	8 sec, 4 sec, 2 sec, 1 sec, Off
Slow or Fast Motion [5] (slow or fast motion)	x8.01, x4, x3, x2, x1.6, x0.96, x0.8, x0.48, x0.4, OFF

1 **[Frame Rate]** and **[Clip Recording Time]** selection are not available at a **[Movie Resolution]** of **[C4K]**.
2 **[Compression/Bit-Rate]** selection is not available when **[C4K]** or **[4K]** is selected for **[Movie Resolution]**.
3 All-Intra movies are recorded without inter-frame compression. Movies in this format are suitable for editing but have larger file sizes.
4 **[Frame Rate]** options of 60p and 50p are not available at a **[Movie Resolution]** of **[4K]** or when **[A-I]** is selected for **[Compression/Bit Rate]**.
5 Depending on the frame rate, some options may not be displayed.

🎥 Exposure Mode

Choose the exposure mode for movie recording.

• This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Mode]** ➜ select an exposure mode

This option can also be accessed via the live control (P.4).

Exposure Compensation/Aperture/Shutter Speed

Make adjustments to auto-exposure (AE) for movie recording, choose an aperture when **A** or **M** is selected for **[🎥 Exposure Mode]**, and choose the shutter speed at which each frame is recorded.

• Exposure compensation, aperture, and shutter speed can be adjusted by rotating the front or rear dial. The operations for **P**/**A**/**S**/**M** modes are listed below.

Exposure mode	Exposure compensation	Aperture	Shutter speed
P	Front dial/rear dial	—	—
A	Front dial	Rear dial	—
S	Front dial	—	Rear dial
M	—	Front dial	Rear dial

At default settings, ISO sensitivity and recording level can be adjusted in **M** mode by rotating the **Fn** lever to position 2.

Picture Mode

Select a picture mode.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Picture Mode]** and press the ⊛ button.

• You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

• You can also use the front dial.
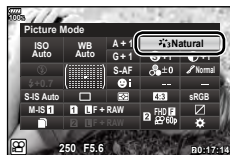
■ ♈ Picture Mode

Optimize tones for movie recording.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ♈ tab ➜ **[♈ Specification Settings]** ➜ **[♈ Picture Mode]** ➜ select **[On]** or **[Off]**

• Picture mode selection is not available in movie mode when **[On]** is selected for **[♈ Picture Mode]**. To choose a picture mode, select **[Off]** for **[♈ Picture Mode]**.

• Movie effects are not available when **[On]** is selected for **[♈ Picture Mode]**. The following settings can not be changed:
  - Sharpness   - Saturation
  - Contrast   - Gradation

• This option can also be accessed via the live control (P.4).

White Balance

Adjust hues so that white objects appear white.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[WB]** and press the ⊛ button.

• You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

• You will need to switch to a photo shooting mode before measuring a value for one-touch white balance.

• You can also use the front dial.

This option can also be accessed via the menus (P.3) and live control (P.4).

■ 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. This is useful when shooting a subject under natural light, as well as under various light sources with different color temperatures. Before recording movies using one-touch white balance, you will need to measure white balance in photo shooting mode.

1 Rotate the mode dial to **P**, **A**, **S**, **M**, **C1**, **C2**, or **C3**.

2 Press the ⊛ button.

3 Use the arrow pad to highlight **[WB]** and press the ⊛ button.

• You can also use the rear dial.

4 Select **[⚘1]**, **[⚘2]**, **[⚘3]**, or **[⚘4]** (one-touch white balance 1, 2, 3, or 4) and press the **INFO** button.

5 Photograph a piece of colorless (white or gray) paper.

• Frame the paper so that it fills the display and no shadows fall it.

• The one-touch white balance screen appears.

6 Select **[Yes]** and press the ⊛ 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.

■ WB Compensation

Choose and fine-tune compensation values for both auto white balance and preset white balance.

1 Press the ⊛ button to display the LV super control panel.

2 Use the arrow pad to highlight **[WB]**.

3 Use the left and right arrow buttons to choose an option.

4 Use the arrow pad to highlight a white balance compensation option.

5 Use the left and right arrow buttons to choose a value.
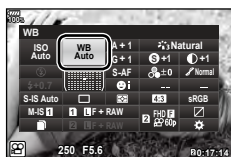
Compensation on the A Axis (Red-Blue)

Move the bar in the + direction to emphasize red tones and in the – direction to emphasize blue tones.

Compensation on the G Axis (Green-Magenta)

Move the bar in the + direction to emphasize green tones and in the – direction to emphasize magenta tones.

All WB±

Apply a single white balance compensation value across all white balance modes.

- Apply the same adjustment to all white balance modes other than **[CWB]**, or set the adjustment for all white balance modes other than **[CWB]** to 0.
- This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ ◨ tab ➜ **[All WB±]** ➜ adjust settings

WB/AUTO Keep Warm Color

Preserve "warm" colors in pictures taken under incandescent lighting.

- This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ ◨ tab ➜ **[WB/AUTO Keep Warm Color]** ➜ choose **[On]** or **[Off]**

‍ AF Mode

Select a focusing method (focus mode).

• This option is accessed via the LV super control panel (P.3).
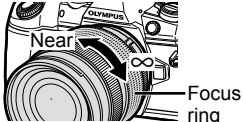
1 Press the ⊛ button.

2 Use the arrow pad to highlight
[‍ AF Mode] and press the ⊛ button.

• You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and
press the ⊛ button.

• You can also use the front dial.

S-AF (single AF)	The camera focuses once when the shutter button is pressed halfway. An in-focus indicator and AF target are displayed when focus locks. Choose for fixed-focus shots and on other occasions when the distance to the subject will not change during shooting.
C-AF (continuous AF)	The camera adjusts focus continuously. Choose in situations in which the distance to the subject changes constantly during shooting.
MF (manual focus)	Adjust focus manually using the lens focus ring.
S-AF+MF (combined S-AF/MF)	Press the shutter button halfway to focus using **[S-AF]**, then fine-tune focus manually using the lens focus ring.
C-AF+TR (AF tracking)	The camera tracks focus on the subject selected when the ⊛ button was pressed to start recording. • The camera displays the AF target in red if it is no longer able to track the subject. • Four Thirds system lenses have a narrower tracking range. The camera will not focus when the AF target is displayed in red, even if it is still tracking the subject.
PreMF (preset MF)	The camera focuses on a preset focus point.

• The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast.
• AF is not available during movie recording with Four Thirds system lenses.
• AF-mode selection is not available if the lens MF clutch is set to the MF position and **[Operative]** is selected for **[MF Clutch]** (P.16) in the Custom Menu.
• This option can also be accessed via the menus (P.3) and live control (P.4).

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■ Lenses with an MF Clutch

If the lens is equipped with an MF clutch, you can use it to switch between auto and manual focus.

  • The MF clutch can not be used to switch between auto and manual focus during movie recording.
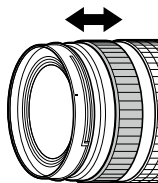
■ Choosing a Focus Position for PreMF

1   Select **[Preset MF]** for AF mode.

2   Press the **INFO** button.

3   Press the shutter button halfway to focus.

  • Focus can be adjusted by rotating the focus ring.

4   Press the ⊛ button.

  • The Pre-MF function can be recalled by pressing the button to which **[Preset MF]** is assigned in the **[Button Function]** menu. Press the button again to restore the previous autofocus setting.
  • The focus distance for the preset focus point can be set using the **[Preset MF distance]** option in the Custom Menu.

Preset MF Distance

Choose a focus position for preset MF.

  • This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ 🅐🅑 tab ➜ **[Preset MF distance]** ➜ choose a focus position for preset MF

Focus distances are approximate and intended as a guide only.

MF Assist

Choose focus assist options for manual focus.

- Select **[On]** to automatically enable focus zoom or peaking when the focus ring is rotated in manual focus mode.
- This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ 🅰 tab ➜ **[MF Assist]** ➜ **[Magnify]** or **[Peaking]** ➜ choose **[On]** or **[Off]**

Magnify	The display zooms in on an area centered on the current focus target for more accurate focus. Focus zoom is not available while recording is in progress.
Peaking	Areas in focus are identified by clearly-defined outlines. You adjust outline color and strength.

- **[Peaking]** can be assigned to a button using the **[🎬 Button Function]** option in the movie menu (movie mode; P.25) or the **[📷 Button Function]** in the custom menu (other modes). Press the selected button to toggle the display.
- To adjust the color and strength of outlines, press the **INFO** button in the peaking display.
- Peaking tends to heighten the outlines of small objects, regardless of whether or not they are in focus.

Peaking Settings

Choose colors for the peaking display.

- This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ 🅳 tab ➜ **[Peaking Settings]** ➜ adjust settings

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Choose the color (red, yellow, white, or black) and strength (normal, low, or high) of outlines and turn **[Image Brightness Adj.]** on or off.

MF Clutch

Enable or disable the MF clutch on lenses with an MF clutch.

- This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ 🅰 tab ➜ **[MF Clutch]** ➜ choose **[Operative]** or **[Inoperative]**

AF Area

Choose a target selection method and target size.

- This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[AF Area]** and press the ⊛ button.

- You can also use the rear dial.

3 Use the front dial to choose from all- and single-target modes.

- In single-target mode, you can position the AF target using the arrow pad.

4 Press the ⊛ button.

Touch AF

Focus using touch controls.

- This option is accessed via touch controls.
- To enable touch AF, tap the 🖼 button to select 🖼. You can then tap the display to position the AF target and focus. Touch focus can be used while recording is in progress.
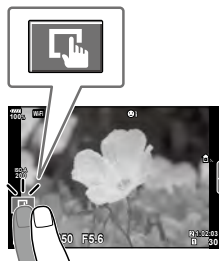
Face Priority AF/Eye Priority AF

Give priority to faces or eyes when focusing.

- This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[☺ Face Priority]** and press the ⊛ button.

- You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

- You can also use the front dial.

This option can also be accessed via the live control (P.4) or by rotating the rear dial in the **[AF Area]** display.

Movie ℚ

Movie sound settings.

• This option is accessed via the menus (P.3).

MENU button ➜ ℚ tab ➜ **[Movie ℚ]** ➜ **[On]** ➜ audio settings

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Option	Sub-option		Description
Recording Volume	Built-in ℚ	−10 to +10	Adjust the sensitivity of built-in and external microphones. • The sensitivity of external microphones connected to the microphone jack can be adjusted using **[MICℚ]**.
	MIC ℚ	−10 to +10	
ℚ **Volume Limiter**	Off		Limit microphone sensitivity.
	On		
Wind Noise Reduction	Off		Reduce wind noise.
	Low		
	Normal		
	High		
ℚ **Plug-in Power**	Off		Choose whether to supply power to external microphones. • Select **[Off]** when using microphones that do not require power from the camera.
	On		
PCM Recorder ℚ Link	Camera Rec. Volume	Enabled	Adjust settings for IC recorders connected to the microphone jack.
		Disabled	
	Slate Tone	Off	
		On	
	Synchronized ◉ Rec.	Off	
		On	
Headphone Volume	1 to 16		Adjust headphone volume.

■ Recording Movie Audio with an Olympus LS-100 IC Recorder

When movie audio is recorded via an Olympus LS-100 IC recorder, camera controls can be used to record a slate tone or to start and stop recording. Select **[Movie ♀]** > **[PCM Recorder ♀ Link]** and choose **[On]** for both **[Slate Tone]** and **[Synchronized ◉ Rec.]**. You should also check that the LS-100 firmware has been updated to the latest version.

1 Connect a microphone to the LS-100 and plug the LS-100 into the camera USB connector.

   • When the LS-100 is connected via USB, a message will be displayed prompting you to choose a connection type. Select **[PCM Recorder]**. If no message displayed, go to the custom menus and select **[Auto]** for **[USB Mode]**.

2 Start movie recording.

   • The LS-100 will begin recording audio.
   • To record a slate tone, press and hold the ⊛ button.

3 End movie recording.

   • The LS-100 will stop recording audio.

Additional information is available in the documentation provided with the LS-100.

Card Slot Settings

Choose the card slot used for shooting or playback when two cards are inserted.

 • This option is accessed via the menus (P.3).

MENU button ➜ ✷ tab ➜ ⬛ tab ➜ **[Card Slot Settings]** ➜ choose an option

◻ Save Settings

Choose how movies are saved.

• This option is accessed via the LV super control panel (P.3).

■ Choosing a Slot

This option is not available when only one card is inserted.

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[◻ Save Settings]** and press the ⊛ button.

• You can also use the rear dial.

3 Use the up and down arrow buttons to highlight **[🎬 Save Slot]** and press the right arrow button.

4 Use the up and down arrow buttons to highlight a slot and press the ⊛ button.
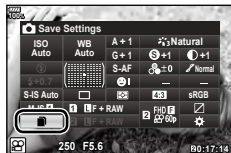
■ Choosing a Folder

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[◻ Save Settings]** and press the ⊛ button.

• You can also use the rear dial.

3 Use the up and down arrow buttons to highlight **[Assign Save Folder]** and press the right arrow button.

4 Use the up and down arrow buttons to highlight **[Assign]** and press the right arrow button.

• If you select **[New Folder]**, specify the 3-digit folder number and press the ⊛ button.

• If you select **[Existing Folder]**, use the up and down arrow buttons to select the existing folder and press the ⊛ button.

This option can also be accessed using the **[Card Slot Settings]** (P.19) option in Custom Menu 🄷.

▶ Image Stabilizer

Choose an image stabilization option for movie recording.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[▶ Image
Stabilizer]** and press the ⊛ button.

• You can also use the rear dial.

3 Use the left and right arrow buttons to high-
light an option and press the ⊛ button.

• You can also use the front dial.
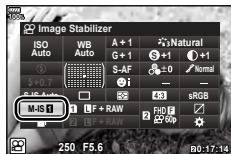
OFF	Movie-I.S. Off	Image stabilizer off.
M-IS **1**	All Direction Shake I.S.	The camera uses both sensor shift (VCM) and electronic correction.
M-IS **2**	All Direction Shake I.S.	The camera uses sensor shift (VCM) correction only. Electronic correction is not used.

• The edges of the frame are cropped out when **[M-IS 1]** is selected, reducing the area recorded.
• In addition to **[▶ Image Stabilizer]**, the LV super control panel offers an **[🗖 Image Stabilizer]** option exclusively for photographs. The option chosen for **[🗖 Image Stabilizer]** has no effect in movie mode.
• This option can also be accessed via the menus (P.3) and live control (P.4).

🎥 HDMI Output

Adjust settings for connection to HDMI devices when recording movies.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ 🎥 tab ➜ **[🎥 HDMI Output]** ➜ adjust settings

Option	Sub-option	Description
Output Mode	Monitor Mode	The HDMI device functions as an external monitor. Monitor options can be adjusted using the **[HDMI]** option in Custom Menu 🄳.
	Record Mode	The HDMI device functions as an external recorder. Images and audio are output at the settings selected with the camera.
REC Bit	Off	Choose whether the camera transmits recording triggers to external devices.
	On	
Time Code	Off	Choose whether the camera transmits time codes to external devices.
	On	

ISO Sensitivity

Choose an ISO sensitivity for **M** mode.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight ISO sensitivity and press the ⊛ button.

• You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

• You can also use the front dial.

• Choose from settings of ISO 200 to 6400 (**M** mode).
• In **P**/**A**/**S** modes, ISO sensitivity is fixed at AUTO and the camera adjusts sensitivity automatically (maximum ISO 6400).
• This option can also be accessed via the live control (P.4).

Sharpness

Adjust sharpness.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Sharpness]** and press the ⊛ button.

  • You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

  • You can also use the front dial.

Contrast

Adjust contrast.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Contrast]** and press the ⊛ button.

  • You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

  • You can also use the front dial.

Saturation

Adjust color saturation (vividness).

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Saturation]** and press the ⊛ button.

  • You can also use the rear dial.

3 Use the left and right arrow buttons to highlight an option and press the ⊛ button.

  • You can also use the front dial.

Gradation

Adjust tone.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Gradation]** and press the ⊛ button.

   • You can also use the rear dial.

3 Use the left and right arrow buttons to high-light an option and press the ⊛ button.

   • You can also use the front dial.

Highlight&Shadow

Adjust the brightness of highlights and shadows.

• This option is accessed via the LV super control panel (P.3).

1 Press the ⊛ button.

2 Use the arrow pad to highlight **[Highlight&Shadow]** and press the ⊛ button.

   • You can also use the rear dial.

3 Use the arrow pad to adjust settings and press the ⊛ button.

   • Press the **INFO** button to switch between the highlight and shadow and mid-tone displays.

   • The front and rear dials can be used in place of the arrow pad.

🎥 Noise Filter

Reduce noise in movies filmed at high ISO sensitivities.

• This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Specification Settings]** ➜
[🎥 Noise Filter] ➜ select an option

🎥 Button Function

Customize buttons for use in movie mode.

• This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Button/Dial/Lever]** ➜
[🎥 Button Function] ➜ adjust settings

The default movie mode function button settings are as follows:

Button	Default	Button	Default
Fn1 Function	AF Area Select	▶ Function	Electronic Zoom [1]
Fn2 Function	Multi Function	⊡ Function	ISO/WB
◉ Function	◉ REC	**B-Fn1** Function [2]	AF Area Select
AEL Function	AEL/AFL	**B-Fn2** Function [2]	AEL/AFL
◎ Function	Peaking	**PBH** ◇ Function [2]	Direct Function
⊚ Function	Q	**PBH** ▶ Function [2]	Electronic Zoom [1]
⎦⊡⎣ Function	⎦⊡⎣	**PBH** ▼ Function [2]	ISO/WB
◈ Function	Direct Function	**L-Fn** Function [3]	AF Stop

1 Available with power zoom lenses.
2 Available with the optional power battery holder (HLD-9).
3 Available with lenses equipped with **L-Fn** buttons.

■ Available Options

The functions that can be assigned to the buttons are listed below. The options available vary from button to button.

AF Stop	End autofocus.
🔛 (AEL/AFL)	Lock focus or exposure. • In the case of exposure lock, press the button to lock exposure. 〔AEL〕 will be displayed in the monitor; press the button again to end exposure lock.
◉ REC	Record movies.
[·:·] (AF Area Select)	Choose the AF target (P.17).
MF	Toggle **[MF]** mode. • Press the button again to restore the previously selected AF mode. • The focus mode can be selected by rotating a dial while the button is pressed.
🔁 (Exposure compensation)	Adjust exposure compensation. • In **P**, **A**, and **S** modes, press the button and use the dials or the left and right arrow buttons to adjust exposure. • In **M** mode, press the button and use the dials or arrow pad to adjust shutter speed and aperture.
Movie Tele-converter	Zoom in on an area of the frame without zooming the lens. Use to zoom in on a selected area without moving the camera. • Pressing the button displays the zoom frame; press the button again to zoom in. Use the arrow pad to move the crop anywhere in the frame. • Press the button a third time to cancel zoom.
Q (Magnify)	Zoom the display in or out. • Press the button to display the magnification frame and press it again to zoom in. • Press and hold the button to cancel zoom.
🔺ISO/🔻WB	Adjust ISO sensitivity using the front dial and white balance using the rear dial.
🔺WB/🔻ISO	Adjust white balance using the front dial and ISO sensitivity using the rear dial.
Multi Function	Recall a selected function. • The multi-function button can be assigned the following roles: 🔲 (Highlight&Shadow Control), ◎ (Color Creator), 🔲 (ISO/WB), 🔲 (WB/ISO), Q (Magnify), 🔲 (Image Aspect), 🔲 (S-OVF), 🔲 (Peaking)

Peaking	View or hide the peaking display. • The histogram and highlight/shadow displays are not available when peaking is enabled. • When using peaking, you can press the **INFO** button to adjust colors and outlines.
⃞ (⃞ View Selection)	Turn live view on or off. • If the eye sensor is disabled, the button can be used to switch between the monitor and EVF displays.
IS Mode	Enable or disable image stabilization. • The image stabilization mode can be selected by rotating a dial while the button is pressed.
Preset MF	Toggle preset MF. • Press the button again to restore the previously selected AF mode. • The focus mode can be selected by rotating the dial while the button is pressed.
Exif Lens (Lens Info Settings)	Display the lens information settings menu.
S-AF	Focus.
🖑 (Switch 🖑 Lock)	Enable or disable touch screen operation by pressing and holding the button. • This option can only be used when **[Direct Function]** is selected for **[⬚ Function]**.
Electronic Zoom	Adjust zoom using the arrow pad (power zoom lenses only). • This option can only be used when **[Direct Function]** is selected for **[⬚ Function]**.

- The **[▶ Function]** and **[▼ Function]** options can only be used when **[Direct Function]** is selected for **[⬚ Function]**.
- The **[▦▶ Function]** and **[▦▼ Function]** options can only be used when **[Direct Function]** is selected for **[▦◇ Function]**.
- The **[Direct Function]** option for the ⬚ button applies to the arrow pad.
- Assign [⋯] to the ⬚ button to use it for AF target selection.
- The 🖳 button can be used for the functions available on some lenses.

☒ Dial Function

Customize dials for use in movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ ☒ tab ➜ **[☒ Button/Dial/Lever]** ➜ **[☒ Dial Function]** ➜ choose the roles of the dials in movie mode

The roles available to the front and rear dials vary with the exposure mode. The functions that can be assigned to the dials are as follows:

Available roles	Exposure mode			
	P	**A**	**S**	**M**
Shutter speed	—	—	✔	✔
Aperture	—	✔	—	✔
Exposure compensation	✔	✔	✔	—
ISO sensitivity	—	—	—	✔
WB mode	✔	✔	✔	✔
CWB color temperature	✔	✔	✔	✔
☒VOL	✔	✔	✔	✔
☒VOL	✔	✔	✔	✔

☒ Fn Lever Function

Customize the **Fn** lever for use in movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ ☒ tab ➜ **[☒ Button/Dial/Lever]** ➜ **[☒ Fn Lever Function]** ➜ select an option

mode1	The functions accessible via the **Fn** lever are selected using **[☒ Dial Function]**.
mode2	Use the **Fn** lever to toggle between two sets of focus settings. Press the right arrow button to select the settings to which toggle applies. Choose from AF mode, AF target settings (**[▦/•/÷/▦]**), and AF area (✛).

[☒ Fn Lever Function] has no effect when **[mode3]** is selected for **[☒ Fn Lever Function]** or when **[Power 1]** or **[Power 2]** is selected for **[Fn Lever/Power Lever]**. In these cases, the **Fn** lever performs the function assigned using **[☒ Fn Lever Function]** or **[Fn Lever/Power Lever]**.

🎥 Shutter Function

Choose the role played by the shutter button in movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Button/Dial/Lever]** ➜ **[🎥 Shutter Function]** ➜ choose the role of the shutter button in movie mode

🔘	Press the shutter button to focus using autofocus. The shutter button can not be used to take photographs.
◉ **REC**	Press the shutter button all the way down to start and end movie recording.

🎥 Elec. Zoom Speed

Choose a power zoom speed for movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Button/Dial/Lever]** ➜ **[🎥 Elec. Zoom Speed]** ➜ choose options

🎥 Control Settings

Choose LV super control panel and live control display options for movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Display Settings]** ➜ **[🎥 Control Settings]** ➜ choose options

🎥 Info Settings

Choose information display options for movie mode.

- This option is accessed via the menus (P.3).

MENU button ➜ 🎥 tab ➜ **[🎥 Display Settings]** ➜ **[🎥 Info Settings]** ➜ choose an option

Time Code Settings

Choose time code options.

- This option is accessed via the menus (P.3).

> **MENU** button ➜ 🎥 tab ➜ **[🎥 Display Settings]** ➜
> **[Time Code Settings]** ➜ adjust settings

Options		Description
Time Code Mode	Drop Frame	Clocked time is adjusted to match real time. Choose for accurate time recording.
	Non-DF (no drop frame)	Clocked time is not adjusted to match real time.
Count Up	Rec Run	Time is clocked during movie recording.
	Free Run	Time is clocked continuously, even when the camera is off.
Starting Time	Reset	Choose the time code starting time.
	Manual Input	
	Current Time	

Time codes are not recorded with Motion JPEG (🎥HD🎥) movies.

🔋 Display Pattern

Choose whether the camera displays the battery level as a percentage or number of minutes remaining.

- This option is accessed via the menus (P.3).

> **MENU** button ➜ 🎥 tab ➜ **[🎥 Display Settings]** ➜
> **[🔋 Display Pattern]** ➜ choose a display type

%	The battery level is shown as a percentage.
min	The battery level shows the recording time remaining, in minutes.

The display of time remaining is intended as a guide only.

My Clips

Record short clips in a specialized 🎬 image quality mode and then combine the clips into a longer movie.

■ Recording Clips

1 Rotate the mode dial to 🎬.

2 Press the ⊛ button to display the LV super control panel.

3 Use the arrow pad to highlight **[🎬◄⋮∙]**.

   • You can also use the rear dial.

   • **[🎬◄⋮∙]** can also be accessed via the live control (P.4) or using **[🎬 Specification Settings]** in the movie menu.

4 Highlight FHD₃₀ₚ using the front dial and press the ⊛ button.

   • To choose a **[Movie Resolution]**, **[Compression/Bit Rate]**, **[Frame Rate]**, and **[Clip Recording Time]**, press the **INFO** button. Highlight **[Movie Resolution]**, **[Compression/Bit Rate]**, **[Frame Rate]**, and **[Clip Recording Time]** using the left and right arrow buttons and use the up and down arrow buttons to choose options.

5 Press the ◉ button to start shooting.

   • To extend recording, press the ◉ button while recording is in progress. Recording can be extended by up to 16 seconds by pressing the button repeatedly.

   • Recording ends automatically when the clip reaches the length selected for **[Clip Recording Time]**. Completed clips will automatically be added to "My Clips" and a confirmation dialog will be displayed.
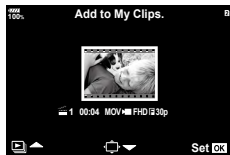
6 View the clip in the confirmation dialog.

   • Press the up arrow button to view the clips in the current "My Clips" album in order. To end playback, press the ⊛ button.

7 Press the ⊛ button to exit the confirmation dialog.

   • Repeat Steps 5 to 7 to record additional clips. New clips will be added to the same album as previous clips unless they differ from previous clips in such respects as movie resolution or frame rate, in which case they will be added to a different album.

Pressing the down arrow button displays a dialog where you can reorder the clips (P.34). To delete the clip, press 🗑 and select **[Yes]**.

■ Viewing My Clips

1 Press the ▶ button to start single-frame playback.

2 Display a clip (any movie marked with a 🎬 icon) and press the ⊛ button.

• A menu will be displayed.

**3** Use the up and down arrow buttons to highlight **[Play My Clips]** and press the ⊛ button.

• The clips in "My Clips" will play in order.

• Press the ⊛ button again to end playback.

• The menu displayed by pressing the ⊛ button in single-frame playback can also be used to view just the current clip (**[Movie Interval]**) or to perform such operations as trimming clips (**[Movie Edit]**>**[Movie Trimming]**).

■ Managing and Editing My Clips

The "My Clips" playback dialog can be used for such operations as viewing and exporting "My Clips" movies and changing the order of the clips within a movie.

1 Press the ▶ button to start single-frame playback.

2 Display a clip (any movie marked with a 🎬 icon) and press the ⊛ button.

 • A menu will be displayed.

3 Use the up and down arrow buttons to highlight **[See all My Clips]** and press the ⊛ button.

 • The "My Clips" playback dialog will be displayed.

The My Clips Playback Dialog

The "My Clips" playback dialog can be used for the following operations:

Option	Description
Play My Clips	To view all the clips in the current "My Clips" album in order, highlight **[Play My Clips]** and press the ⊛ button. Press the ⊛ button again to end playback.
Movie Interval	To play only the current clip, highlight **[Movie Interval]** and press the ⊛ button. Press **MENU** to end playback.
Export My Clips	Create a movie from the clips in the current "My Clips" album (P.37).
Rearrange Order	Reorder clips or create new "My Clips" albums (P.34).
Preset Destination	Choose the "My Clips" album to which subsequent clips will be recorded (P.35).
Delete My Clips	To delete all unprotected clips in the current "My Clips" album, highlight **[Delete My Clips]** and press the ⊛ button. • The clips will also be deleted from the memory card.
Erase	To delete the current clip, highlight **[Yes]** and press the ⊛ button. • The clip will also be deleted from the memory card.

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Rearrange Order

Reordering and Moving Clips

1 Use the arrow pad to highlight a clip and press the ⊛ button.

2 Use the up and down arrow buttons to highlight **[Rearrange Order]** and press the ⊛ button.
- A dialog will be displayed where you can choose the clip order.

3 Move clips using the arrow pad and press the ⊛ button.
- The clips will be listed in the new order from now on.

Creating New My Clips Albums

1 Use the arrow pad to highlight a clip and press the ⊛ button.

2 Use the up and down arrow buttons to highlight **[Rearrange Order]** and press the ⊛ button.
- A dialog will be displayed where you can choose the clip order.

3 Use the up arrow button to move a clip into the 🎬 area at the top of the dialog and press the ⊛ button.
- The selected clip will be removed from its current "My Clips" album and placed in a new album.

Removing Clips from My Clips Albums

1 Use the arrow pad to highlight a clip and press the ⊛ button.

2 Use the up and down arrow buttons to highlight **[Rearrange Order]** and press the ⊛ button.

  • A dialog will be displayed where you can choose the clip order.

3 Use the arrow pad to move a clip into the ₳ area and press the ⊛ button.

  • The clip will be removed from "My Clips".

Preset Destination

Choose the "My Clips" album to which new clips will be recorded.

1 Use the arrow pad to highlight the "My Clips" to which new clips will be recorded and press the ⊛ button.

2 Use the up and down arrow buttons to highlight **[Preset Destination]** and press the ⊛ button.

  • A confirmation dialog will be displayed.

3 Press the ⊛ button.

  • All new clips will be recorded to the selected "My Clips" album.
  • Clips with **[Movie Resolution]**, **[Bit Rate]**, or **[Frame Rate]** settings that differ from those of the clips in the selected album will either be recorded to a new album or to an album of clips with matching settings.

Adding Photos to My Clips (Add to My Clips)

Photos or clips not already in a "My Clips" album can be added to "My Clips".

• RAW or High Res Shot images in "My Clips" appear as low-resolution previews.

1 Press the ▶ button to start single-frame playback.

2 Use the left and right arrow buttons to highlight a photo or clip you want to add to "My Clips" and press the ⊛ button.

   • A menu will be displayed.

3 Use the up and down arrow buttons to highlight **[Add to My Clips]** and press the ⊛ button.

4 Use the arrow pad to position the photo or clip in the current "My Clips" album and press the ⊛ button.

   • The selected photo or clip will be added to "My Clips" and the camera will return to single-frame playback.
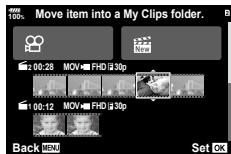
■ Creating Movies from My Clips

1 Press the ▶ button to start single-frame playback.

2 Display a clip (any movie marked with a ⚑ icon) in single-frame playback and press the ⊛ button.

   • A menu will be displayed.

3 Use the up and down arrow buttons to highlight **[Export My Clips]** and press the ⊛ button.

   • The **[Export My Clips]** menu will be displayed.

4 Choose the effects that will be applied to the movie and adjust other settings.

   • When creating movies from "My Clips", you can add effects, background tracks, and the like. Use the up and down arrow buttons to highlight items and press the ⊛ button to view options for the highlighted item. Use the up and down arrow buttons to highlight options and settings and press the ⊛ button to select.

Clip Effects	Choose from 6 art effects.
Transition Effect	Add fade transitions between clips.
BGM	Choose whether to add a background track to the exported movie. • Background track selection is only available if you have imported background tracks downloaded from the Olympus website (P.38).
Recorded Clip Volume	Choose the volume at which the audio recorded with the clips plays when **[Party Time]** is selected for **[BGM]**.
Recorded Clip Sound	Select **[On]** to include the audio recorded with the clips in the final movie. This option is available only when **[Off]** is selected for **[BGM]**.

5 Highlight **[Preview]** and press the ⊛ button.

   • The movie that will be created from the exported clips will be shown in preview.

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6 Highlight **[Begin Export]** and press the ⊛ button.

- The combined album is saved as a single movie.
- Exporting a movie may take some time.
- The maximum length for movies created from "My Clips" is 15 minutes and the maximum file size is 4 GB.

- The camera may require additional time to display "My Clips" in certain circumstances, including after memory cards are removed and inserted or images are deleted or protected.
- Within the length and file size limits given above, the camera can record a maximum of 99 "My Clips" movies, with a maximum of 99 clips per movie.
- Only footage recorded using a clip image quality option can be included in "My Clips" movies; footage from other movies can not be added.

Background Tracks

To enable background track selection, import background tracks downloaded from the Olympus website.

1 Download a background track.

- Background tracks can be downloaded from the following website: http://support.olympus-imaging.com/bgmdownload/

2 Copy the downloaded track to the memory card you use in the camera.

3 Insert the card and turn the camera on.

4 Press the ▶ button to start single-frame playback.

5 Display a clip (any movie marked with a 🎬 icon) and press the ⊛ button.

- A menu will be displayed.

6 Highlight **[Export My Clips]** and press the ⊛ button.

- **[Export My Clips]** options will be displayed.

7 Highlight **[BGM]** and press the right arrow button.

- The track on the memory card will be imported to the camera and the previous track, if any, will be deleted.

Movie Effect

Record movies with special effects.

 • This option is accessed via touch controls.

■ Displaying Movie Effect Icons

The movie effect icons will only be displayed if **[Movie Effect]** is selected in the menus.

MENU button ➜ n tab ➜ **[n Display Settings]** ➜ **[n Info Settings]** ➜ **[Custom1]** ➜ place a check next to **[Movie Effect]**

■ Adding Movie Effects

1 Press the ⦿ button to start recording.

 • You can press the ⦿ button again to stop recording at any time.

2 Tap the icon for the desired effect.

 • Choose from the following effects. Effects can be changed during recording.

⬛	**Art Fade**	Gradually apply a selected picture mode effect. The fade-in to the chosen effect starts when the effect is selected. • Tap ⬛ and tap the desired picture mode. The fade-in starts when you remove your finger from the picture mode icon.
⬛	**Old Film**	Randomly add dust and scratches to mimic the effect of old film. • Tap ⬛ to apply the effect. Tap again to cancel.
⬛	**Multi Echo**	Add after images. After images appear behind moving objects. • Tap ⬛ to apply the effect. Tap again to cancel.
⬛	**One Shot Echo**	Add short-lived after images which fade automatically with the passage of time. • After images are added each time you tap ⬛.

		Zoom in on an area of the frame without zooming the lens. Use to zoom in on a selected area without moving the camera.
▭	**Movie Tele-converter**	• Tapping ▭ displays the zoom frame. The zoom frame can be positioned by tapping anywhere in the frame. • Tap ▣ to zoom in on the selected zoom frame. • Tap ▣ to cancel zoom. • To exit, tap ▭Off or press the ⊛ button. • Movie Tele-converter is not available at movie resolutions of **[C4K]** or **[4K]**.

3 Press the ◉ button to end recording.

• Multiple effects can not be applied simultaneously.
• Depending on the picture mode, some effects may not be available.
• Audio recorded with the movie may include sounds made by buttons or by tapping the screen.
• Art Fade is not available with clips.
• The only effect available with slow/fast motion movies is Movie Tele-converter.
• Frame rates may drop if art filter or movie effects are applied at large movie resolutions such as **[4K]** or **[C4K]**.
• Art filters can not be applied to slow/fast motion movies.
• You can not use movie effects with slow/fast motion movies or when filming in movie-only pictures modes.

Silent Shooting

To reduce the sounds made by camera controls during movie recording, touch controls can be used for power zoom, recording volume, aperture, shutter speed, exposure compensation, ISO sensitivity, and/or headphone volume adjustment.

• This option can be configured using the menus and is accessed via touch controls.

■ Displaying the Silent Shooting Tab

Silent shooting tab

The silent shooting tab will only be displayed if **[Silent ⬛ Operation]** is selected in the menus.

MENU button ➜ 🎬 tab ➜ **[🎬 Display Settings]** ➜
[🎬 Info Settings] ➜ **[Custom1]** ➜
place a check next to **[Silent ⬛ Operation]**

■ Choosing Silent Shooting Controls

1 Tap the silent shooting tab.
   • A silent shooting tab listing the following options will be displayed. The options available vary with the exposure mode.

Icon	Description
T W↕	Electronic zoom [1]
⚲	Recording volume
FNo	Aperture
SS	Shutter speed
⯐	Exposure compensation
ISO	ISO sensitivity
🎧	Headphone volume [2]

   1 Available with power zoom lenses only.
   2 Available only when headphones are used.

2 Tap ⌃ ⌄ to choose an option.

3 Tap ⏏ to exit.

Play Movie

1 Press the ▶ button to start playback.

2 Display a movie you want to view and press the ⊛ button.

**3** Highlight **[Play Movie]** and press the ⊛ button.
- Movie playback will start.
- Fast-forward and rewind using the left and right arrow buttons. Press the ⊛ button again to pause playback. While playback is paused, use the up and down arrow buttons to skip to the first or last frame. Use the left and right arrow buttons or the front dial (🔘) to rewind or advance one frame at a time. Press the **MENU** button to end playback.

Movies 4 GB or Larger

If the movie was automatically split into multiple files, pressing the ⊛ button will display a menu containing the following options:

Play from Beginning	View the entire movie.
Play Movie	View individual files.
Delete entire ♔	Delete the entire movie.
Erase	Delete individual files.

Movie Trimming

1 Press the ▶ button to start playback.

2 Display a movie you want to edit and press the ⊛ button.
   • A menu will be displayed.

3 Highlight **[Movie Edit]** and press the ⊛ button.

4 Use the up and down arrow buttons to highlight **[Movie Trimming]** and press the ⊛ button.

5 Highlight **[Overwrite]** or **[New File]** and press the ⊛ button.
   • **[Overwrite]** is not available with protected movies.

6 Use the left and right arrow buttons to select footage.
   • All footage between the selected frame and the beginning or the end of the movie will be deleted.

7 Highlight **[Yes]** and press the ⊛ button.

Saving Movie Stills

Create a still from a selected frame.

1 In the ▶ playback menu, highlight **[Edit]** and press the ⊛ button.

2 Use the up and down arrow buttons to highlight **[Sel. Image]** and press the ⊛ button.

3 Use the left and right arrow buttons to highlight a movie and press the ⊛ button.

4 Highlight **[Movie Edit]** and press the ⊛ button.

5 Use the up and down arrow buttons to highlight **[In-Movie Image Capture]** and press the ⊛ button.

6 Use the left and right arrow buttons to highlight a frame and press the ⊛ button to save a still of the selected frame.
   • This option is available with 4K MOV-format movies recorded using this camera with an aspect ratio of **[16:9]**.

Share Order

Select photos and movies for later transfer to a smartphone using OI.Share.

• Share orders cannot include Motion JPEG (𝗝𝗛𝗗𝗝) movies.

1 Press the ▶ button to start playback.

2 Display a movie you want to share and press the ⊛ button.

　　• A menu will be displayed.

3 Highlight **[Share Order]** and press the ⊛ button.

4 Press the up or down arrow button.

　　• Images selected for sharing are marked by a ＜ icon.

　　• To cancel sharing, press the up or down arrow button again.

O┐ (Protect)

Protect photos and movies from accidental deletion.

1 Press the ▶ button to start playback.

2 Display an image you want to protect and press the **AEL/AFL** button.

　　• Protected images are marked by a O┐ icon.

　　• To remove protection, press the **AEL/AFL** again.

O┐ (protect) icon

To protect images without using the **AEL/AFL** button (for example, when the **AEL/AFL** button is assigned some other role):

1 Press the ▶ button to start playback.

2 Display an image you want to protect and press the ⊛ button.

3 Highlight **[O┐]** and press the ⊛ button.

4 Press the up or down arrow button.

　　• Protected images are marked by a O┐ icon.

Slideshow

View a slide show of the photos and movies on the card.

1 Press the ▶ button to start playback.

2 Press the ⊛ button.

3 Highlight **[Slideshow]** and press the ⊛ button.

4 Adjust settings.

Start	Start the show. Images are displayed in order, starting with the current picture.
BGM	Choose **[Party Time]** or **[Off]**.
Slide	Choose the type of images included in the show.
Slide Interval	Choose the length of time each slide is displayed; options range from 2 to 10 seconds.
Movie Interval	Choose **[Full]** to play each movie in the show in its entirety, **[Short]** to play only the opening portion of each movie.

5 Highlight **[Start]** and press the ⊛ button.
  • During the show, you can use the up and down arrows to adjust the overall volume. While the volume indicator is displayed, you can use the left and right arrows to adjust the balance between the background music and the audio recorded with movies.

Erase

Delete the current photo or movie.

1 Press the ▶ button to start playback.

2 Display a file you want to delete and press the 🗑 button.

3 Highlight **[Yes]** and press the ⊛ button.

Focus Ring

Choose the direction of the focus ring.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✸ tab➜ 🄰🄱 tab ➜ **[Focus Ring]** ➜
> choose a focus ring direction

Reset Lens

Choose whether turning the camera off resets focus.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✸ tab ➜ 🄰🄱 tab ➜ **[Reset Lens]** ➜
> choose **[On]** or **[Off]**

Flicker Reduction

Reduce the effects of flicker.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✸ tab ➜ 🄳🄱 tab ➜ **[Flicker reduction]** ➜
> choose **[Auto], [50Hz],** or **[60Hz]**

This option takes effect in exposure modes **P** and **A**.

Grid Settings

Adjust settings for the framing grid display.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✸ tab ➜ 🄳🄱 tab ➜ **[Grid Settings]** ➜ adjust settings

Display Color	Choose the line color and opacity. Settings can be saved as **[Preset 1]** or **[Preset 2]**.
Displayed Grid	Select **[▦]**, **[▦]**, **[▦]**, **[⊠]**, **[▭]** or **[▦]** to display a grid in the monitor.
Apply Settings to EVF	If **[On]** is selected, the guides shown in the monitor will also be displayed in the viewfinder when **[Style 1]** or **[Style 2]** is selected for **[EVF Style]**. The option selected for **[EVF Grid Settings]** has no effect.

File Name

Choose how the camera numbers the files and folders on the memory card.

• This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ ▥ tab ➜ **[File Name]** ➜ choose **[Auto]** or **[Reset]**

Auto	When a new card is inserted, file numbering continues from the highest numbered file on the previous card. If this number is already in use, numbering will continue from the highest numbered file on the new card.
Reset	When a new card is inserted, the folder number is reset to 100 and the file number to 0001. If the card already contains images, numbering will continue from the highest numbered file on the new card.

When two cards are inserted, the same rule applies to both cards according to the file and folder numbers in use.

Edit Filename

Choose how the camera names image files.

• This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ ▥ tab ➜ **[Edit Filename]** ➜ choose **[sRGB]** or **[AdobeRGB]** ➜ choose a file naming rule

Quick Erase

Choose whether a confirmation dialog is displayed when you press the 🗑 button during playback.

• This option is accessed via the menus (P.3).

MENU button ➜ ✿ tab ➜ ▥ tab ➜ **[Quick Erase]** ➜ choose **[On]** or **[Off]**

Priority Set

Choose the default selection (**[Yes]** or **[No]**) for confirmation dialogs.

- This option is accessed via the menus (P.3).

MENU button ➜ ☀ tab ➜ 🄋 tab ➜ **[Priority Set]** ➜ choose **[Yes]** or **[No]**

EVF Auto Switch

Choose whether the viewfinder turns on when you put your eye to the viewfinder.

- This option is accessed via the menus (P.3).

MENU button ➜ ☀ tab ➜ ▢ tab ➜ **[EVF Auto Switch]** ➜ choose **[On]** or **[Off]**

EVF Adjust

Adjust viewfinder brightness and hue.

- This option is accessed via the menus (P.3).

MENU button ➜ ☀ tab ➜ ▢ tab ➜ **[EVF Adjust]** ➜ adjust settings

- Put your eye to the viewfinder and use the arrow pad to adjust brightness and hue.
- If **[On]** is selected for **[EVF Auto Luminance]**, viewfinder brightness will be adjusted automatically, as will the contrast of the information display.

EVF Style

Choose the viewfinder display style.

- This option is accessed via the menus (P.3).

MENU button ➜ ☀ tab ➜ ▢ tab ➜ **[EVF Style]** ➜ choose a display style

Press-and-Hold Time

Choose how long buttons must be pressed before function assigned to ¨press and hold¨ is activated.
• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✿ tab ➜ 🗓 tab ➜ **[Press-and-hold Time]** ➜ choose an option

Level Adjust

Calibrate the level gauge.
• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✿ tab ➜ 🗓 tab ➜ **[Level Adjust]** ➜ choose a calibration method

Reset	Reset the level gauge to its default setting.
Adjust	Match the 0 position to the camera's current angle.

Touchscreen Settings

Enable or disable touch controls.
• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✿ tab ➜ 🗓 tab ➜ **[Touchscreen Settings]** ➜ choose **[On]** or **[Off]**

Menu Recall

Choose whether the cursor returns to its last position when menus are displayed.
• This option is accessed via the menus (P.3).

> **MENU** button ➜ ✿ tab ➜ 🗓 tab ➜ **[Menu Recall]** ➜ choose **[Recall]** or **[Reset]**

Battery Settings

View battery status or choose the battery used first when the camera is used with the optional power battery holder (HLD-9).

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ❖ tab ➜ ⊡ tab ➜ **[Battery Settings]** ➜ adjust settings

Battery Priority	Choose which battery the camera uses first, that in the camera (**[Body Battery]**) or the battery in the power battery holder (**[PBH Battery]**).
Battery Status	View battery status.

Backlit LCD

Choose the delay before the backlight dims to save power.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ❖ tab ➜ ⊡ tab ➜ **[Backlit LCD]** ➜ choose the delay before the backlight dims

Sleep

Choose the delay before the camera enters sleep mode.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ❖ tab ➜ ⊡ tab ➜ **[Sleep]** ➜ choose the delay before the camera enters sleep mode

Auto Power Off

Choose the delay before the camera turns off automatically.

• This option is accessed via the menus (P.3).

> **MENU** button ➜ ❖ tab ➜ ⊡ tab ➜ **[Auto Power Off]** ➜ choose the delay before the camera turns off automatically

Reset

Restore default settings.
- This option is accessed via the menus (P.3).

1 Press the **MENU** button

2 In ✿₁ Shooting Menu 1, highlight **[Reset / Custom Modes]** and press the ⊛ button.

3 Use the up and down arrow buttons to highlight **[Reset]** and press the ⊛ button.

4 Use the up and down arrow buttons to highlight one of the following options and press the ⊛ button.

Full	Reset all settings to default values. The camera clock and settings such as language are not affected.
Basic	Reset basic shooting-relating settings to their default values.

5 Press the ⊛ button.

6 Highlight **[Yes]** and press the ⊛ button.
- Settings will be reset to default values.

Card Setup

Format memory cards or delete all images.
- This option is accessed via the menus (P.3).

■ Format

Cards must be formatted in the camera before first use or after being used with other cameras or computers.

Formatting memory cards deletes all data stored on the card, including protected images. Before formatting, confirm that the card contains no images you wish to keep.

MENU button ➜ ✻ tab ➜ **[Card Setup]** ➜ select a slot [1] ➜ **[Format]** [2] ➜ **[Yes]**

1 Only if two cards are inserted.
2 Displayed if the card contains data.

■ All Erase

Delete all unprotected images from the memory card. Protected images are not deleted.

Before proceeding, confirm that the card does not contain images you wish to keep.

MENU button ➜ ƒ tab ➜ **[Card Setup]** ➜ select a slot[*] ➜ **[All Erase]** ➜ **[Yes]**

* Only if two cards are inserted.

⏱ (Date/Time Setting)

Set the clock (date and time).
• This option is accessed via the menus (P.3).

MENU button ➜ ƒ tab ➜ **[⏱]** ➜ set the date and time and choose a date display format

🌐 (Changing the Display Language)

Choose a language for the menus and other displays.
• This option is accessed via the menus (P.3).

MENU button ➜ ƒ tab ➜ **[🌐]** ➜ choose a language

🖥 (Monitor Brightness Adjustment)

Adjust monitor brightness and hue.
• This option is accessed via the menus (P.3).

MENU button ➜ ƒ tab ➜ **[🖥]** ➜ adjust brightness and hue

Wi-Fi Settings

Adjust settings for wireless connections between the camera and smartphones via OI.Share.

• This option is accessed via the menus (P.3).

MENU button ➜ ʄ tab ➜ **[Wi-Fi Settings]** ➜ adjust settings

Connection to Smartphone

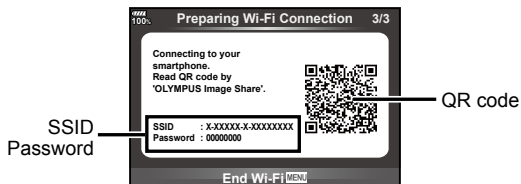Establish a wireless connection between the camera and a smartphone via OI.Share.

• Before proceeding, launch the dedicated "OI.Share" (OLYMPUS Image Share) app installed on your smartphone. Information on OI.Share is available from the following website:
http://app.olympus-imaging.com/oishare/

• This item is accessed via the menus.

1 In the camera ▶ playback menu, highlight **[Connection to Smartphone]** and press the ⊛ button.

• You can also connect by tapping 📶 in the monitor.

2 Adjust Wi-Fi settings following the instructions displayed in the monitor.

• A QR code will be displayed in the monitor together with the SSID and password.


```
🔋
100%            Preparing Wi-Fi Connection    3/3

     Connecting to your
     smartphone.
     Read QR code by
     'OLYMPUS Image Share'.

     SSID      : X-XXXXX-X-XXXXXXXX
     Password  : 00000000

                End Wi-Fi MENU
```

QR code

SSID
Password

3 Launch OI.Share on your smartphone and scan the QR code displayed in the camera monitor.

• A connection will be established automatically.

• You may need to configure your smartphone manually after scanning the QR code.

• If you are unable to scan the QR code, you can connect by opening Wi-Fi settings on your smartphone and manually entering the SSID and password. See the documentation provided with your smartphone for more information.

4 To end the connection, press the camera **MENU** button or tap **[End Wi-Fi]** in the camera monitor.

• You can also use OI.Share to end the connection and turn the camera off.

• The connection is now ended.

- While connected to a smartphone running OI.Share, the camera will function as if **[Standard]** were selected for **[Card Slot Settings]** > **[Save Slot]** in Custom Menu , and OI.Share will have access only to the card in the slot currently selected for **[Save Slot]**. The slot can not be changed using OI.Share.
- If only one card is inserted, OI.Share will select the correct slot automatically.
- Movies are recorded to the card used for photographs, regardless of the option selected for **[Save Slot]**.

- Read the section "Using the wireless LAN function" in the camera manual before using wireless LAN.
- Olympus accepts no responsibility for any violations of wireless regulations that may result from the use of wireless LAN in a region other than that in which the camera was purchased.
- Be aware that wireless transmissions are vulnerable to interception by third parties.
- The camera can not connect to wireless LANs via home routers or public access points.
- The transmitting antenna is located inside the grip. Keep the antenna away from metal objects whenever possible.
- Using wireless LAN increases the drain on the battery. Data transfer may be interrupted if the battery runs low.
- Microwaves, cordless telephones, and other devices that generate magnetic fields, static electricity, or radio waves may slow or otherwise interfere with wireless data connections in their vicinity.

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