OM SYSTEM

OM-3 ASTRO Instruction Manual

Thank you for purchasing an OM Digital Solutions product.
Please read this manual carefully before using the product.

Important Notice

The OM-3 ASTRO is a dedicated astrophotography camera. Compared to the base OM-3 model, this version features significantly improved Hα ray (which has a wavelength of 656 nm) transparency for images with stronger reddish tones. Although the white balance settings can be adjusted to achieve more natural colors, it is not always possible to obtain an appropriate color balance, which is why **we do not recommend the OM-3 ASTRO for photographing normal subjects**.

OM-3 ASTRO Features

The OM-3 ASTRO camera is designed specifically for astrophotography, with enhanced Hα ray transparency for easily capturing celestial bodies and starscapes. This model makes it easy to adjust shooting conditions yourself to obtain your preferred effects and is equipped with convenient features and settings tailored to astrophotography, making it easy for anyone to capture impressive photos of star-filled skies.

● Stacking processing on the camera
Handheld High Res Shot of the OM-3 ASTRO composites 12 shots for a high-definition, low-noise image with a single press of the shutter button.

● Presets for Custom modes C1 to C3
White balance settings and tone curves that match the shooting scene are preset in these modes. For details, see "Shooting Tips."

● Presets for Color Profile COLOR1 and COLOR2
In Custom modes C1 to C3, you can use the COLOR1 Color Profile for shooting celestial bodies, and COLOR2 Color Profile for capturing starscapes. [*1]

● White balance settings
White balance settings are tuned for star photography.

● Combinations for more impressive starscapes
Combine Custom modes with Color Profiles to easily capture more impressive starscapes. See the table below for details.

Mode dial		P/A/S/M/B	C1	C2	C3	C4/C5
Recommended uses			Celestial body stacking shooting	Starscape stacking shooting	Hand-held starscape shooting	
White balance		2800K 0 G6	3500K B7 G7	2800K 0 G6		2800K 0 G6
Color Profile [*3]	COLOR1		This Color Profile is suited to shooting celestial bodies [*1]			
		-	Default setting [*2]	Available	Available	-
	COLOR2		This Color Profile is suited to shooting starscapes [*1]			
		-	Available	Default setting [*2]	Default setting [*2]	-
	COLOR3	-	-	-	-	-
	COLOR4	-	-	-	-	-

● Fn lever setting
At default settings, this is set to mode1 so that you can easily change the ISO sensitivity. When the Fn lever is set to position "2," you can change the ISO sensitivity using the dial.

*1 COLOR1 and COLOR2 Color Profiles for astrophotography and starscapes are only applied when the Creative Dial is set to COLOR.
*2 We recommend using the combination registered at default settings. You may select other combinations, however, it is best to use the recommended settings.
*3 "-" in the table are the same settings as the common OM-3 model Color Profile.

Shooting Tips

Basic operating procedures are the same as the OM-3. For details, please see the OM-3 Instruction Manual.

Choosing the Right Mode

Capturing celestial objects in high definition ・・・ C1 + COLOR1
This mode is appropriate for capturing nebulae and star constellations in higher detail. *

Capturing starscapes in high definition ・・・ C2 + COLOR2
This mode is appropriate for capturing images with a balance of starry skies and terrestrial scenery in higher detail. *

Capturing starscapes easily ・・・ C3 + COLOR2
Capture naturally-colored starry skies with a single shot. This mode is convenient for quick, casual, hand-held shots.

*C1 and C2 can beautifully recreate the details of celestial objects and starry skies using stacking processing. We recommend mounting the camera on a tripod or equatorial mount. The desired composite image may not be achieved in some scenarios. Thank you for your understanding.

Convenient Settings for Custom Modes C1 to C3

Custom modes C1 to C3 feature various settings and can be assigned to buttons for easier star photography.

● Framing
Night Vision is activated and star-filled skies and terrestrial landscapes are displayed brighter for easier framing in dark locations. You can turn this on or off with the |◯| button.

● Focusing
Press the **AF-ON** button to activate Starry Sky AF, which is convenient for focusing on stars. Also, the **Fn** button turns the magnified display on and off, and when activated, it is easier to fine tune the manual focus.

● Focus ring lock
After focusing, use the ◉ button to lock and disable focus ring operations so that the focus will not be affected even if you accidentally touch the ring. You can also disable focus ring lock with the ◉ button.

● Shooting standby time
You can set the time from when the shutter button is pressed fully until shooting begins to prevent camera shake when activating the shutter release. At default settings, C1 and C2 are set to 4 seconds, and C3 to 1 second.

● Monitor brightness settings
At default settings, the monitor brightness is set to -7 for better visibility when shooting in dark locations.

Convenient Accessories - Body Mount Filters

The body mount filter (sold separately) is an exclusive accessory designed to be attached near the OM-3 ASTRO body mount. Please read the included instruction manual before use.

● BMF-LPC01 Light Pollution Filter
This filter cuts light from man-made sources, such as street and city lights. This prevents light bleed into the night sky, allowing you to capture the true beauty of nebulae and constellations more vividly.

● BMF-SE01 Soft Filter
This filter diffuses light to soften point light sources, emphasizing stars. The brighter the stars the more blurred and larger they will appear, emphasizing their colors and making stars and constellations stand out.

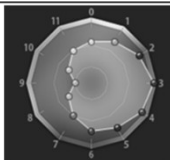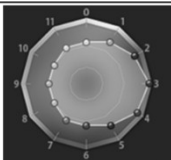*It is not possible to use two body mount filters at the same time.
*For lenses with short focal lengths, this may result in images with a washed-out periphery.

Custom mode (C1 to C3) default settings

*Before shooting, decide on shooting conditions such as focus and exposure that will produce images that match your preferences.
*Each setting can be changed or overwritten to suit the subject or the preferences of the user. When Custom mode is cleared, the camera is reset to default settings.

Mode dial		C1	C2	C3	Remarks
Custom mode name		**ASTROPHOTO**	**STARSCAPE**	**HANDHELD**	
Recommended uses		**Celestial body stacking shooting**	**Starscape stacking shooting**	**Hand-held starscape shooting**	
Basic settings	Recording image quality mode	[50M]F + RAW (14 bit)		[L]SF + RAW	
	Shooting mode	M (Manual) mode			
	Aperture/Shutter speed ISO	F2 / 30 sec. ISO 3200	F1.2 / 4 sec. ISO 6400		For lenses with a larger maximum aperture than that listed at left, the lens maximum aperture is set as the default. *Shooting takes more time in Custom modes C1 and C2, as the camera takes 12 shots per release.
Focus mode	AF mode	Starry Sky AF Accuracy		Starry Sky AF Speed	
	AF area size	AF area Large			
	AF + MF	On			
Shooting operation		12-shot composite (Handheld High Res Shot) Shooting standby time: 4 seconds		Single Anti-Shock mode Shooting standby time: 1 second	A shooting standby time is set to prevent blurring during release operation.
Image stabilization		S-IS Auto		S-IS Auto Handheld Assist: On	As Handheld High Res Shot is set in Custom modes C1 and C2, the default setting for image stabilization is automatically set to S-IS AUTO. Turn image stabilization off when shooting in Custom mode C3 while using a tripod or equatorial mount.
Display	Monitor adjustment	Brightness: -7			The brightness is lowered to reduce eye strain when shooting in dark locations, however, you should adjust the brightness as appropriate if it is too dark to see when checking recorded images.
	EVF	EVF Auto Luminance: Off, brightness: -7			
		EVF Auto Switch: On			
	Night Vision	On			The displayed brightness and color will differ from actual recorded images.
	Grid display color	Preset 1: R 200 / G 0 / B 0 / α (Opacity) 60			The grid color has been set to red in Preset 1 of the "Grid display color" menu.
	MF Assist	Magnify: On			
	Rear monitor	Live View			
Button allocation	Magnified display	**Fn** button			
	Night Vision switching	|◯| button			
	Focus Ring Lock	◉ button			
White balance		3500K B7 G7	2800K 0 G6		

Color Profile default settings

Mode dial			C1	C2	C3	Remarks
Finish (Creative Dial)	I (Picture Mode)		Vivid			
		Highlight & Shadow	Highlight: +7 Midtone: 0 Shadow: -7	Highlight: +7 Midtone: -5 Shadow: +6		
		Sharpness	-2			
		Contrast	+2			
		Color saturation	+2			
	COLOR		COLOR1	COLOR2		If you set the Creative Dial to COLOR, at default settings, you can select COLOR1 in Custom mode C1, and COLOR2 in Custom modes C2 and C3.
		Highlight & Shadow	Highlight: +7 Midtone: -4 Shadow: -7	Highlight: +7 Midtone: -5 Shadow: +6		
		Sharpness	-2	-2		
		Contrast	+2	+2		
		Color saturation (settings by hue)	This setting enhances the red for more beautiful shots of nebulae	This setting focuses on balanced values for starscapes		[Default color saturation settings (settings by hue)]

[Default color saturation settings (settings by hue)]

	0	1	2	3	4	5	6	7	8	9	10	11
COLOR1	1	2	4	5	4	3	2	0	-2	-4	-2	0
COLOR2	1	2	4	5	4	2	1	1	0	0	0	1

COLOR1 and COLOR2 can be changed or overwritten. When Custom mode is cleared, Color Profile is also reset to default settings.