OM SYSTEM

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E-M1 Mark III ASTRO

Instruction Manual

Thank you for purchasing an OMDS product.
Be sure to read this document before using the product.

The E-M1 Mark III ASTRO is a dedicated astrophotography camera. It has much-improved transparency to Hα rays (which have a wavelength of 656 nm) compared to the E-M1 Mark III and thus produces images that are redder than reality when photographing normal subjects. Although one-touch white balance can be used to achieve coloring that is closer to normal, it is not always possible to obtain an appropriate color balance, which is why **we do not recommend the E-M1 Mark III ASTRO for photographing normal subjects**.
Basic operating procedures are the same as the E-M1 Mark III. Please see the E-M1 Mark III Instruction Manual.
Custom modes C1 and C2 feature preset white balance and tone curve settings that deliver natural astrophotography images, as well as useful functions for astrophotography.
In particular, custom mode C1 has Handheld High Res Shot set, and users can fix the camera to a tripod or equatorial mount to perform stacking processing in the camera in a single shot when shooting astrophotography. This results in highly detailed images with reduced noise.
Settings for custom modes C1 and C2 can be changed or overwritten to suit the subject or the preferences of the user. To return the camera to its default settings, set [Reset] in [Reset / Custom Settings] to [Full], and perform a reset.

Differences from the E-M1 Mark III

- Lens reset setting: Default setting is Off.
  *Although the focus position does not reset even when the power is turned off, the focal point may change due to environmental changes in temperature, etc., and we recommend checking focusing every time you shoot.
- EVF automatic switch setting: Default setting is On2.
- Fn lever setting: Default setting for both still images and videos is Mode1.
- Handheld High Res Shot release wait time setting: Maximum 30 seconds
- Custom mode C1 and C2 settings: Please see the back page of this document.

Convenient accessories - body mount filters

The filters are included with the E-M1 Mark III ASTRO Body Mount Filter Set. These filters are attached close to the camera body mount for use. Please read the precautions included in the instruction manual that comes with the filters before use.

- **BMF-LPC01 Body Mount Light Pollution Suppression Filter**
  This filter cuts light from artificial 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 Body Mount Soft Filter**
  This filter diffuses light to soften point light sources, emphasising stars. The brighter the stars the more blurred and larger they will appear, emphasising their colours 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.

Shooting tips

- Camera placement
  ・We recommend mounting the camera on a tripod or equatorial mount.
- Framing
  ・Setting LV Boost to On2 makes night skies and terrestrial landscapes appear brighter for easier framing.
  Switching LV Boost between On and Off is allocated to the Movie button in the custom mode C1 and C2 default settings.
- Focusing
  ・Starry Sky AF is useful for focusing on the stars. In the custom mode C1 and C2 default settings, press the **AEL/AFL** button to start Starry Sky AF.
  ・When using manual focusing, zooming the display makes focusing easy.
  Switching Magnified Display between On and Off is allocated to the Exposure compensation button in the custom mode C1 and C2 default settings.
  ・When using manual focusing, we recommend switching LV Boost to Off. Frame rate is lowered in On2, making focusing difficult.
- Focus ring lock
  ・When you have finished focusing, we recommend activating focus ring lock to deactivate focus ring operation so that focus is not accidentally lost.
  Switching focus ring lock between On and Off is allocated to the rear ISO button in the custom mode C1 and C2 default settings.
- Shooting standby time
  ・To avoid release-induced blurring, we recommend setting the time between fully pressing the shutter button and the shutter releasing as the shooting standby time. The default setting in custom mode C1 is 4 seconds, and 1 second in custom mode C2.
- Monitor brightness setting
  ・We recommend setting monitor brightness to a dark setting for visibility with shooting in dark locations. In custom modes C1 and C2, the default monitor brightness setting is -7.

Latest support information
https://explore.omsystem.com/c/en/e-m1-mark-iii-astro

Please use the matrix code to check for the latest information and frequently asked questions (FAQ) as well as accessory compatibility information.

Custom mode C1 and C2 default settings

*__Handheld High Res Shot is set in custom mode C1, making shooting times longer. 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.

Setting item		C1	C2	Remarks
Basic settings	Recording image quality mode	[50M]F + RAW	[L]SF + RAW	
	Shooting mode	M (Manual) mode		
	Aperture/Shutter speed ISO	F2 / 30 secs.* ISO 1600	F1.2 / 4 secs. ISO 6400	For lenses with a larger maximum aperture than that listed at left, the lens maximum aperture is set as the default. *Handheld High Res Shot is set for custom mode C1, and thus shooting takes more time as the camera takes 16 shots per release.
Focus mode	AF mode	Starry Sky AF Accuracy Priority	Starry Sky AF Speed Priority	The default setting for the Starry Sky AF target size is “5 × 5.” In Starry Sky AF, press the AEL/AFL button to start AF operation.
	AF + MF	ON		It is also configured to use MF for focusing.
Drive	Drive	Handheld High Res Shot	Anti-Shock mode	
	Shooting standby time	4 secs.	1 sec.	A shooting standby time is set to prevent blurring during release operation.
Image stabilization		S-IS AUTO		As Handheld High Res Shot is set in custom mode C1, the default setting for image stabilization is automatically set to S-IS AUTO. In custom mode C2, S-IS AUTO is set by default to support handheld shooting. Set image stabilization to Off when mounting the camera on a tripod or equatorial mount for shooting.
Display	Monitor adjustment	LV Boost On2		As the display frame rate is lowered, we recommend setting LV Boost to Off when using MF.
		Monitor brightness -7		To reduce the burden on your eyes when shooting in dark locations, the default setting for monitor brightness is set to -7. If the image is too dark and difficult to see when checking the screen, set a brighter level in “Monitor adjustment” in the Setup Menu.
	Guide lines display color	Preset 1: R 200 / G 0 / B 0 / α (Opacity) 60		To make guide lines easy to be seen even in dark locations when deciding on shot composition, the grid color has been set to red in Preset 1 of the “Guide lines display color” menu.
Button allocation	Magnified Display	Allocated to the Exposure compensation button .		Use this to zoom the screen when using manual focusing or when checking the focus.
	LV Boost switching (On/Off setting)	Allocated to the Movie button .		Use this for switching between, for example, On when matching shot composition, and Off when using manual focusing.
	Focus ring lock	Allocated to the ISO button .		Pressing this button to activate the focus ring lock prevents the camera from losing focus if you inadvertently touch the focus ring.
Image adjustment	White balance	Custom white balance 3000K White balance compensation: G direction +2		Settings for white balance that achieve natural coloration for the night sky and tone curve settings suitable for astrophotography have been set as default settings. The resulting photographs taken are affected by factors such as the subject, shot composition, and brightness of the night sky. Adjust the parameters to suit the circumstances in which you are shooting, as well as your preferences.
	Highlight & Shadow Control	Highlight +3 / Medium -3 / Shadow 0		
	Sharpness	-2		
	Contrast	+2		

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