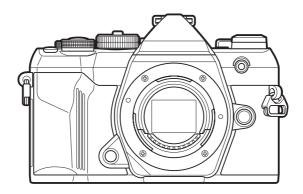


DIGITAL CAMERA

OM SYSTEM OM-5 Mark I

Instruction Manual





Model No.: IM037

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

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Introduction

Before You Begin

Read and Follow Safety Precautions

To prevent incorrect operation resulting in fire or other damage to property or harm to yourself or to others, read "SAFETY PRECAUTIONS" (P.515) in its entirety before using the camera.

Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Be sure to keep the manual in a safe place once it is read. Our company will not be held liable for violations of local regulations arising from use of this product outside the country or region of purchase.

Wireless LAN and Bluetooth®

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

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

"Disabling the camera's wireless communication (Airplane Mode)" (P.406)

User Registration

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

Installing PC Software/Apps

OM Workspace

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

OM Image Share

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



About This Manual

How to find what you want to know

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

Search method	Where to look
Search based on what you want to do	I "Table of Contents"
Search based on names of buttons and parts of the camera	"Names of parts" (P.23)
Search based on menus and terms displayed on the monitor	"Default Settings" (P.468)

How to read this manual

Supported shooting modes for each function

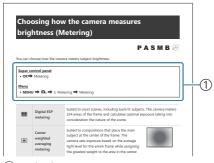
In this manual, the shooting modes in which each shooting function can be used are listed at the top of the function description. Black indicates supported shooting modes, while gray indicates unsupported shooting modes.



- 1) Supported shooting modes
- For ART, SCN, and modes, optimal settings and effects are pre-registered for the subject and shooting scene. Available shooting functions vary depending on the shooting mode.

Configuring functions

In this manual, the configuration method for each function is described at the beginning of the function description. For details, refer to "How to operate the menus" (P.107) and "How to change the shooting settings" (P.95).

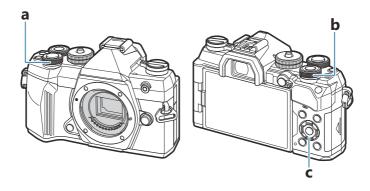


1 Method

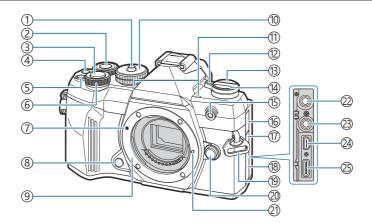
Symbols in this manual

The symbols below are used throughout this manual.

$\triangle \nabla \triangleleft \triangleright$	Indicates an operation performed by pressing the buttons (respectively the up, down, left, and right arrow buttons) on the arrow pad (c).
	Indicates an operation performed using the front dial (a).
×	Indicates an operation performed using the rear dial (b).
•	Cautions and limitations.
\$.	Tips and other helpful information for using the camera.
	References to other pages in this manual.

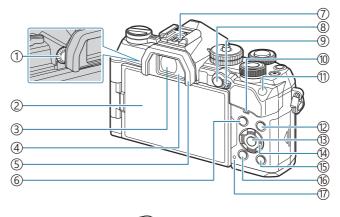


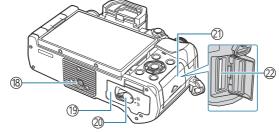
Names of parts



- 1) Mode dial lock (P.49)
- ② Front dial (P.56, P.59, P.61, P.63, P.107, P.292, P.324, P.344, P.346)
- (3) Shutter button (P.50)
- (4) (Movie) button (P.90) ✓ (Selection) button (P.310)
- (5) **CP** button (P.340)
- ⑥ Front dial (P.56, P.59, P.61, P.63, P.107, P.292, P.324, P.344, P.346)
- 7) Lens attachment mark (P.34)
- (8) Preview button (P.330)
- Mount (Remove the body cap before attaching the lens.)
- 10 Mode dial (P.49)
- (11) Stereo microphone (P.283, P.314)
- (12)**ON/OFF** lever (P.37)
- (13 O (LV) button (P.45)

- (14 🗐 🖒 (Sequential/self-timer shooting) button (P.199)
- (5) Self-timer lamp (P.199)
 AF illuminator (P.143)
 Movie recording lamp (P.288)
- 16 Microphone jack cover
- (17) Remote cable terminal cover
- (18) Connector cover
- (19) Strap eyelet (P.26)
- 20 Lens release button (P.35)
- 21)Lens lock pin
- ② Microphone jack (A commercially available microphone can be connected. Ø3.5 stereo mini plug) (P.283)
- 23) Remote cable terminal
- (24) HDMI connector (Type D) (P.286, P.436)
- 25 USB connector (Type C) (P.29, P.30, P.422, P.424, P.426)





- 1) Diopter adjustment dial (P.45)
- (2) Monitor (Touch screen) (P.42, P.45, P.52, P.152, P.297)
- (3) Viewfinder (P.45, P.359)
- (4) Eye Sensor (P.45)
- (5) Eyecup (P.449)
- (6) MENU button (P.107)
- 7 Hot shoe (P.185, P.448)
- **8 AF-ON** button (P.126, P.127)
 - On (Protect) button (P.301)

(9) **Fn** lever (P.56, P.59, P.61, P.63, P.347)

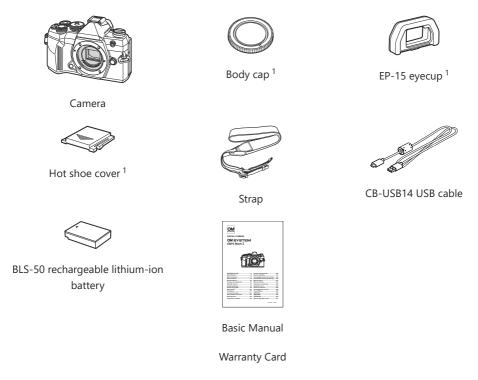
- (10) Speaker
- 11 **ISO** button (P.175)
 - ★ (Rating) button (P.308)

- (12) **INFO** button (P.47, P.109, P.291)
- (13) **OK** button (P.107, P.100, P.292)
- (14) Arrow pad (P.292)
- 15 (Playback) button (P.292)
- (16) (Erase) button (P.302)
- (17) Battery charge lamp (P.29)
- (18) Tripod socket
- (19) Battery compartment cover (P.27)
- 20) Battery compartment lock (P.27)
- (21) Card compartment cover (P.32)
- (22) Card slot (P.32)

Preparation

Unpacking the box contents

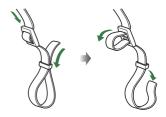
At purchase, the package contains the camera and the following accessories. If anything is missing or damaged, contact the dealer from whom you purchased the camera.



- 1 The body cap, eyecup, and hot shoe cover attached to or inserted in the camera.
- The battery will not be fully charged at the time of purchase. Charge the battery before use (P.29).

Attaching the Strap

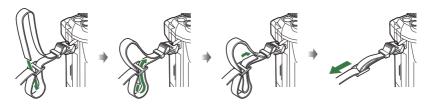
1. Before attaching the strap, remove the end from the keeper loop and loosen the strap as shown.



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



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

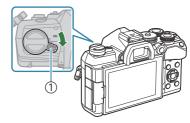


- Attach the other end of the strap to the other eyelet.
- After attaching the strap, pull on it firmly to ensure that it will not come loose.

Inserting and removing the battery

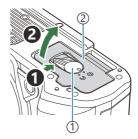
Inserting the battery

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



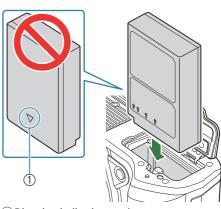
1) ON/OFF lever

2. Open the battery compartment cover.



- 1) Battery compartment lock
- (2) Battery compartment cover

- **3.** Insert the battery.
 - Use only BLS-50 batteries (P.25, P.450).



1) Direction indicating mark

4. Close the battery compartment cover.

It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.

&-See also "Batteries" (P.438).

Removing the battery

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



1) Battery lock knob

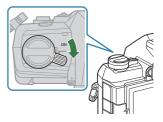
- Contact an authorized distributor or service center if you are unable to remove the battery. Do not use force.
- ① Never remove batteries or memory cards while the card write indicator (P.42) is displayed.

Charging the battery

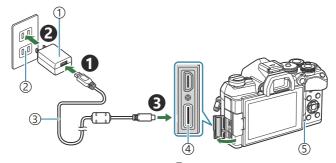
- The battery will not be fully charged at the time of purchase. Charge the battery before use.
- The camera can be charged using the following methods.
 - Using the USB-AC adapter F-5AC (sold separately) (P.29)
 - Using a commercially available USB device (P.30)
 - Connecting the camera to a computer (P.422)
 - Using an optional charger (BCS-5) (P.443)

Charging the battery using an Optional USB-AC adapter

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



- 2. Connect the USB cable, USB-AC adapter, and AC outlet.
 - Refrain from using anything other than the USB cable (CB-USB14) supplied with the camera or the USB cable (CB-USB11) sold separately.



- 1) USB-AC adapter F-5AC (sold separately)
- (2)AC outlet
- (3) USB cable (supplied)

- (4) USB connector
- (5) Battery charge lamp

 The battery charge lamp lights during charging. Charging with the camera turned off takes about 4 hours. The lamp goes out as the batteries reach full charge. Remove the USB cable from the camera.



① If a charging error occurs, the battery charge lamp will blink. Disconnect and reconnect the USB cable

- Charging may not start depending on the ambient temperature. If this happens, the battery charge lamp will blink.
- &-Charging stops when the battery temperature is too high. It will resume after the battery temperature falls.
- & For safety reasons, charging may take longer, or the battery may not reach full charge, when the battery is charged in a high-temperature environment.

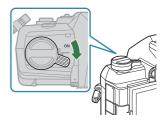
(?) The USB-AC Adapter

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

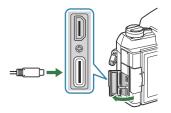
Charging the battery using a USB device

The battery inserted in the camera will charge when the camera is connected via a USB cable to a commercially available USB device.

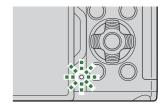
1. Confirm that the **ON/OFF** lever is in the **OFF** position.



2. Connect the camera to the USB device using a USB cable.



• The battery charge lamp lights during charging. Charging times vary with the output of the USB device. The lamp goes out as the batteries reach full charge.



- ① If a charging error occurs, the battery charge lamp will blink. Disconnect and reconnect the USB cable.
- & The supply of power ends when the battery is charged. Disconnect and reconnect the USB cable to resume charging.
- & The camera can be powered using mobile batteries or similar devices connected via USB. For details, see "Powering the Camera via USB (Power Supply)" (P.426).

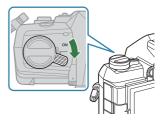
Inserting and removing the card

Inserting the card

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

Cards must be formatted with this camera before first use or after being used with other cameras or computers. From "Formatting the card (Card Formatting)" (P.377)

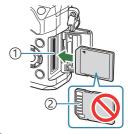
1. Confirm that the **ON/OFF** lever is in the **OFF** position.



2. Open the card compartment cover.



- **3**. Insert the card.
 - Slide the card in until it locks into place.
 - ② Do not forcibly insert a damaged or deformed card. Doing so may damage the card slot.



- 1)Card slot
- ②Terminal area

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



Removing the card

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

Never remove batteries or memory cards while the card write indicator (P.42) is displayed.



Usable cards

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



SD card write protect switch

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



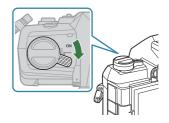
- (1) When recording movies, use an SD card that supports an SD speed class of 10 or higher.
- ② A UHS-II or UHS-I card with a UHS speed class of 3 or better is required when:
 - [4K] or [C4K] is selected for Movie Resolution in [\(\frac{\pm}{\pm} \) €:].
 - [A-I] (ALL-Intra) is selected for bit rate in [🎛 ◀፡-1.
 - [120fps] is selected for the sensor frame rate in [\text{\tinte\text{\tinite\text{\text{\text{\text{\text{\text{\text{\text{\text{\texiext{\texi{\text{\texi}\text{\text{\texit{\text{\texi}\text{\texi{\texi{\texi{\texi{\texi{\texi}\texi{\texi{\texi{\texi{\texi{\texi{\texi}\texi{\texi{\texi{\texi{\texi{\texi{\texi{\
- & The data in the card will not be erased completely even after formatting the card or deleting the data. When discarding, destroy the card to prevent leakage of personal information.
- &-Access to some playback functions and the like may be restricted when the SD memory card write-protect switch is in the "LOCK" position.

Attaching and removing lenses

Attaching a lens to the camera

See "Interchangeable lenses" (P.440) for information on compatible lenses.

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

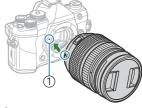


2. Remove the rear cap of the lens and the body cap of the camera.



3. Align the lens attachment mark (red) on the camera with the alignment mark (red) on the lens, then insert the lens into the camera's body.





- 1) Lens attachment mark
- **4.** Rotate the lens clockwise until you hear it click.
 - ② Do not press the lens release button.
 - ② Do not touch internal portions of the camera.

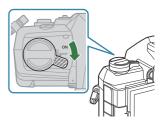


5. Remove the front lens cap.



Removing Lenses

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

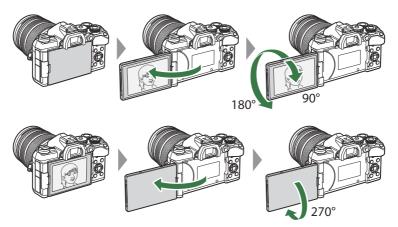


2. Hold the lens release button and rotate the lens as shown.

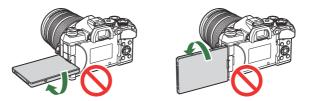


Using the monitor

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



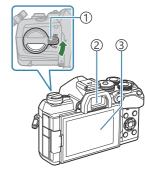
• Gently rotate the monitor within its range of motion. Attempting to rotate the monitor beyond the limits shown below could damage the connectors.



• The camera can be configured to display a mirror image of the view through the lens or automatically zoom power zoom lenses all the way out when the monitor is rotated for self portraits. Selfie Assist (Selfie Assist)" (P.358)

Turning the camera on

- **1.** Set the **ON/OFF** lever to the **ON** position.
 - When the camera is turned on, the monitor will turn on.



- 1)**ON/OFF** lever
- (2) Viewfinder
- (3) Monitor

Battery level

A battery level indicator appears in the display.

(white): The camera is ready to shoot.

(white): The battery is not full.

(white): The battery is low.

• (blinks red): Charge the battery.



• To turn the camera off, return the lever to the **OFF** position.

Sleep Mode

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

- When the camera enters sleep mode, the monitor will turn off and operation will be suspended. Pressing the shutter or button reactivates the camera.
- If no operations are performed for a set period after the camera enters sleep mode, the camera will turn off automatically. The camera can be reactivated by turning it on again.
- The delay before the camera goes to sleep or turns off automatically can be selected in the menu.

 "Setting Sleep (Power Saving) Options (Sleep)" (P.393), "Setting Auto Power Off Options (Auto Power Off)" (P.394)

Initial setup

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

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



2. Highlight the desired language using the front or rear dial or the $\triangle \nabla \triangleleft \triangleright$ buttons.



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



- If you press the shutter button before pressing the **OK** button, the camera will exit to shooting mode and no language will be selected. You can perform the initial setup by turning the camera off and then on again to display the initial setup dialog and repeating the process from Step 1.

39 Initial setup

- **4.** Set the date, time, and date format.
 - Use the <I>D buttons to highlight items.
 - Use the $\Delta \nabla$ buttons to change the highlighted item.
 - The time is displayed using a 24-hour clock.

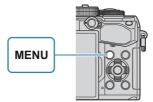


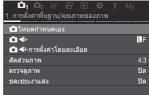
- The clock can be adjusted at any time from the menu. Setting the Camera Clock (O Settings)" (P.398)
- **5.** Press the **OK** button.
- **6.** Highlight a time zone using the $\Delta \nabla$ buttons and press the **OK** button.
 - Press the INFO button to enable or disable daylight-saving time.
- 7. Press the **OK** button to save changes and exit.
- & Date and time information is recorded on the card together with the images.

What to Do If You Can't Read the Display

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

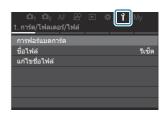
1. Press the **MENU** button to view the menus.

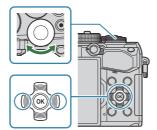


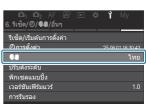


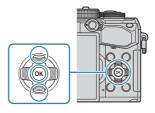
2. Highlight the \(\gamma\) (setup) tab using the front dial.











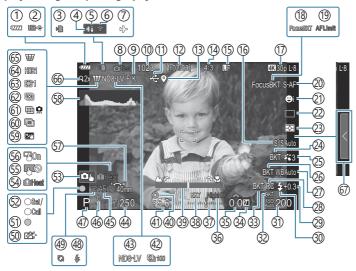
5. Highlight the desired language using the $\triangle \nabla \triangleleft \triangleright$ buttons and press the **OK** button.



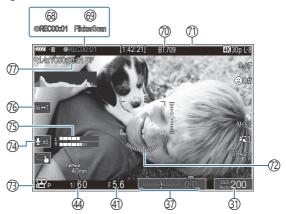
Shooting

Information displays while shooting

Monitor display during still photography



Monitor display during movie mode



- 1) Battery level (P.37)
- 2 Power supply (P.426)
- (3) Card write indicator (P.28, P.33)
- (4)Active **Bluetooth**® connection (P.411, P.428)
- (5) Remote control (P.428)
- (6) Wireless LAN connection (P.408)
- 7) Airplane Mode (P.406)
- (8) Test Picture (P.332)
- (9) Anti-Flicker Shooting (P.212)
- (10) Number of storable still pictures (P.509)
- (11) Active USB connection (P.424)
- (12) Available Recording Time (P.511)
- (13) **Bluetooth** ® Position Information (P.418)
- (14) Aspect Ratio (P.225)
- 15 Image Quality (P.219)
- (16) Image Stabilizer (P.213)
- 17 Movie Quality (P.220)
- (18) Focus BKT (P.280)
- (19) AF Limiter (P.138)
- 20) AF Mode (P.110)
- 21) Face & Eye Detection (P.130)
- 22) Drive (Single, Sequential, Self-Timer, Anti-Shock, Silent Mode, Pro Capture Shooting) (P.199 / P.206 / P.207 / P.209)
- 23) Metering mode (P.168)
- (24) ART BKT (P.278)
- 25) Picture Mode (P.227)
- 26) WB BKT (P.275)
- (27) White balance (P.235)
- 28 RC Mode (P.195)

- 29 Flash Intensity Control (P.194)
- 30 Flash Mode (P.189)
- (31) ISO sensitivity (P.175)
- (32) ISO BKT (P.277)
- 33 FL BKT (P.276)
- 34 Highlight & Shadow Control (P.339)
- (35) Exposure compensation value (P.161)
- 36 Night Vision (P.355)
- (P.161) Exposure compensation (P.161)
- 38 AE BKT (P.273)
- 39 Focus Indicator (P.153)
- 40 Preview (P.353)
- 41) Aperture Value (P.56, P.59)
 - 42 Interval Shooting (P.262)
- 43 Live ND Shooting (P.249)
- (44) Shutter Speed (P.56, P.61)
- 45 AE Lock (P.169)
- 46 Custom Mode (P.84)
- 47 Still Photography Mode (P.56)
- (8) Flash (blinks: charging in progress, lights up: charging completed) (P.184)
- 49 Pro Capture active (P.209)
- © Dust reduction (P.455)
- (51) AF confirmation mark (P.50)
- (52) SET/CALL function (P.442)
- (53) Touch Controls (P.52)
- (54) Internal temperature warning (P.461)
- (55) Touch control lock (P.332)
- (56) AF Targeting Pad (P.152)
- (57) Zoom operation direction/Focal length

- (58) Histogram (P.48)
- (9) Handheld Starlight (P.75)
- 60 Multiple Exposure (P.257)
- (61) High Res Shot (P.245)
- @Focus Stacking (P.252)
- (63) Fisheye Compensation (P.268)
- (64) HDR (P.255)
- (65) Keystone Comp. (P.266)
- 66) Digital Tele-converter (P.261)
- 67 Live guide recall (P.71)

- Recording time (displayed during recording) (P.90)
- (69) Flicker Scan (P.166)
- 70 **₹ 2** View Assist (P.244)
- (71) Red frame during movie recording (P.287)
- 72) Level Gauge (P.48)
- 73) Movie exposure mode (P.91)
- 74) Sound Recording Level (P.94)
- (75) Sound Recording Level Meter (P.94)
- 76 Electronic Zoom (P.94)
- (77) Time Code (P.285)

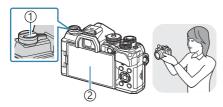
Switching between displays

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

Framing photos in the monitor

The shooting screen on the monitor will be displayed in live view.

Pressing the | | (LV) button while the monitor is in live view switches the display to the super control panel.



- 1 O (**LV**) button
- 2 Monitor







Framing photos in the viewfinder

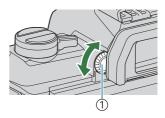
The viewfinder turns on automatically when you bring it to your eye. When the viewfinder is lit up, the monitor turns off.



(1)Viewfinder



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

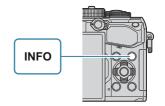


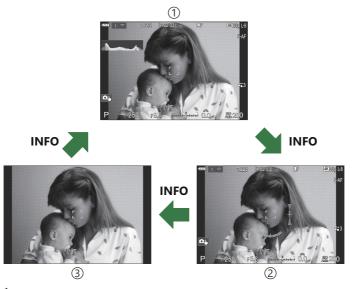
① Diopter adjustment dial

Switching the information display

PASMB

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

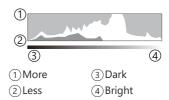




- 1)Information 1
- 2 Information 2 (still photography mode only)
- ③Image Only
- & The information display screens can be switched in either direction by rotating the dial while pressing the **INFO** button.
- & You can choose whether to display information when the shutter button is pressed halfway.
 - "Configuring the display for when the shutter button is pressed halfway (Info by half-pressing —)" (P.363)

Histogram display

A histogram showing the distribution of brightness in the image is displayed. The horizontal axis gives the brightness, the vertical axis the number of pixels of each brightness in the image. Areas above the upper limit at shooting are displayed in red, those below the lower limit in blue, and those within the spot metering range in green. You can choose the upper and lower limits. ** "Histogram Exposure Warning (Histogram Settings)" (P.370)



| Highlights and Shadows

Highlights and shadows, defined according to the upper and lower limits for the histogram display, are shown in red and blue. You can choose the upper and lower limits. Fig. "Histogram Exposure Warning (Histogram Settings)" (P.370)

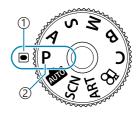
Level gauge display

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

- The level gauge is intended as a guide only.
- Calibrate the gauge if you find it is no longer truly plumb or level. (Calibrating the Level Gauge (Level Adjust)" (P.400)

Using Shooting Modes

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



- 1 Indicator
- (2) Mode icon

Types of shooting modes

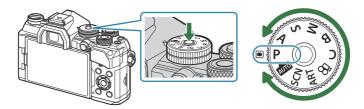
For how to use the various shooting modes, see the following.

Р	Program AE (P.56)
Α	Aperture-priority AE (P.59)
S	Shutter-priority AE (P.61)
M	Manual exposure (P.63)
В	Bulb/time (P.66)
	Live composite (P.69)
AUTO	Auto (P.71)
SCN	Scene (P.74)
ART	Art Filter (P.80)
С	Custom (P.86)

& For information on the Ω position on the mode dial, see "Recording movies in movie mode (Ω)" (P.91).

Choosing shooting modes

Press the mode dial lock to release the lock, and then rotate the dial to set the mode you wish to use.



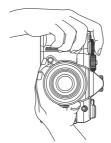
 When the mode dial lock has been pressed down, the mode dial is locked. Each time you press the mode dial lock, it switches between locked/released.

Shooting still pictures

- 1. Rotate the mode dial to the mode you wish to use.
- 2. Frame the shot.
 - ② Be careful that your fingers or the camera strap do not obstruct the lens or AF illuminator.



Landscape position



Portrait position

3. Adjust the focus.

• Position the AF frame over your subject.



(1) AF frame

• Lightly press the shutter button down to the first position (press the shutter button halfway).

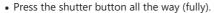


 The AF confirmation mark (●) will be displayed, and a green frame (AF target) will be displayed in the focus location.



- 1) AF confirmation mark
- (2) AF target
- &-You can also focus by pressing the **AF-ON** button (P.126).
- ① If the camera is unable to focus, the AF confirmation mark will flash (P.457).
- The AF frame varies with the option chosen for AF-target mode. Change the area (P.116) and position (P.115) of the AF target as required.
- ① The AF frame is not displayed when [[iii]All] (all targets) is chosen for AF-target mode (P.116).

4. Release the shutter.



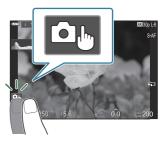


- The camera will release the shutter and take a picture.

Shooting with touch screen operations

PASMB #

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



Tap a subject to focus and automatically release the shutter.

② This option is not available when

- the mode dial is set to B (bulb) or \(\text{M} \) (movie), or

- [\(\text{MAF} \)] or [\(\text{MAF} \)] is selected for AF mode (P.110).

Shooting with touch screen operations is disabled.

Tap to display an AF target and focus on the subject in the selected area. You can use the touch screen to choose the position and size of the focus frame. Photographs can be taken by pressing the shutter button.

Tap to select a face to focus when the camera detects multiple faces.

③ is displayed when [Face & Eye Detection] is set to a setting other than [Off] (P.130).

③ This option is not available when [Sensor Frame Rate] in [\(\text{M} \)] is set to [120fps] in movie mode (P.220).

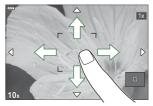
- Tapping an icon switches the settings.
- ② Do not tap the display with your fingernails or other sharp objects.
- (2) Gloves or monitor covers may interfere with touch screen operation.

Previewing the subject ()

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



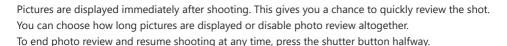
- Tap off the display of the AF target.
- **2.** Use the slider to adjust the size of the AF target, and then tap to zoom in at the frame position.
 - Use your finger to scroll the display when the picture is zoomed in.

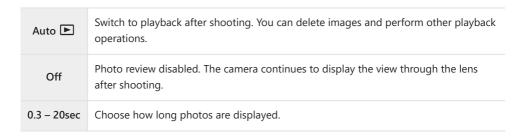


- Tap to cancel the zoom display.
- (?) The situations in which touch screen operations are not available include the following.
 - When buttons or dials are in use

Photo Review (Image Review)

PASMB A

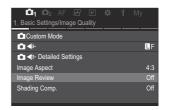




- **1.** Press the **MENU** button to view the menus.
- 2. Highlight the \Box_1 tab using the front dial.



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



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

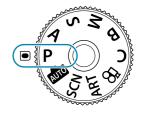


6. Press the **MENU** button to exit the menus.

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

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

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



- 2. Focus and check the display.
 - Use the front and rear dials to adjust the following settings.
 Front dial: Exposure compensation (P.161)
 Rear dial: Program shift (P.58)
 - The shutter speed and aperture chosen by the camera are displayed.



- 1)Shooting mode
- ②Shutter speed
- 3 Aperture

- **3.** Release the shutter.

Subject Too Dark or Too Bright

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

Display	Problem/solution
Large aperture (low F-number)/slow shutter speed	The subject is too dark. • Use a flash.
Small aperture (high F-number)/fast shutter speed	Subject is too bright. • The limits of the camera metering system have been exceeded. Use a third-party ND (Neutral Density) filter to reduce the amount of light entering the camera. • Shutter speeds as fast as 1/32000 s are available in [♥] (silent) mode. □ "Shooting without shutter sound (Silent [♥] Settings)" (P.207), "Performing the sequential/self-timer shooting" (P.199)

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

Program Shift

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

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



(1)

1) Program shift

Program shift is not available during flash photography.

Choosing aperture (A: Aperture-Priority AE)

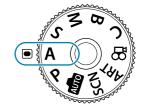
In this mode, you choose the aperture (F-number) and the camera automatically sets the shutter speed for optimal exposure according to subject brightness. Lower aperture values (larger apertures) reduce the depth of the area that appears to be in focus (depth of field), blurring the background. Higher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



- 1) Lower aperture values...
 - ...reduce depth of field and increase blur.
- 2 Higher aperture values...

...increase depth of field.

1. Rotate the mode dial to A.



- 2. Adjust aperture.
 - Use the front and rear dials to adjust the following settings.
 Front dial: Exposure compensation (P.161)
 Rear dial: Aperture



- 1) Aperture
- The shutter speed selected automatically by the camera will appear in the display.
- **3**. Release the shutter.

Subject Too Dark or Too Bright

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

Display	Problem/solution
Slow shutter speed	Underexposure. • Choose a lower aperture value.
Fast shutter speed8000-F5.6	Overexposure. • Choose a higher aperture value. • If the subject is still overexposed at the higher value, the limits of the camera metering system have been exceeded. Use a third-party ND (Neutral Density) filter to reduce the amount of light entering the camera. • Shutter speeds as fast as 1/32000 s are available in [♥] (silent) mode. □ "Shooting without shutter sound (Silent [♥] Settings)" (P.207), "Performing the sequential/self-timer shooting" (P.199)

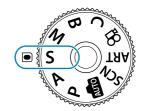
Choosing shutter speed (S: Shutter-Priority AE)

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



- 1) Slower shutter speeds...
 - ...produce dynamic shots with a sense of motion.
- 2) Faster shutter speeds...
 - ..."freeze" the motion of fast-moving subjects.

1. Rotate the mode dial to S.



- 2. Choose the shutter speed.
 - Use the front and rear dials to adjust the following settings.
 Front dial: Exposure compensation (P.161)
 Rear dial: Shutter speed
 - Choose from shutter speeds of 1/8000-60 s.
 - Shutter speeds as fast as 1/32000 s are available in silent mode.
 [™]Shooting without shutter sound (Silent
 Settings)" (P.207), "Performing the sequential/self-timer shooting" (P.199)



- 1 Shutter speed
- The aperture selected automatically by the camera will appear in the display.
- **3**. Release the shutter.

- → You can use the Fn lever to reverse the roles of the front and rear dials. The Fn lever can also be assigned other roles.

 Customizing the Fn Lever (Fn Lever Settings)" (P.347)

 Customizing the Fn Lever (Fn Lever Settings)

 Customizing the Fn
- To achieve the effect of a slow shutter in brightly-lit settings in which slow shutter speeds are not otherwise available, use the live ND filter. Shooting)" (P.249)
- Depending on the shutter speed selected, you may notice banding in the display caused by flicker from fluorescent or LED light sources. The camera can be configured to reduce the effects of flicker during live view or when pictures are taken. "Reducing Flicker in Photographs (Anti-Flicker Shooting)" (P.212), "Reducing Flicker Under LED Lighting (Flicker Scan / Flicker Scan)" (P.166)

Subject Too Dark or Too Bright

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

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

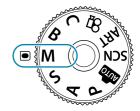
When [ISO] is not set to [Auto], optimal exposure may be achieved by changing the setting. "Changing ISO sensitivity (ISO)" (P.175)

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

Choosing aperture and shutter speed (M: Manual Exposure)

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

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



- 2. Adjust aperture and shutter speed.
 - Use the front and rear dials to adjust the following settings.
 Front dial: Aperture
 Rear dial: Shutter speed
 - Choose from shutter speeds of 1/8000-60 s.
 - Shutter speeds as fast as 1/32000 s are available in silent mode.

 "Shooting without shutter sound (Silent ▼ Settings)" (P.207)
 - The display shows the difference between the exposure produced by the selected aperture and shutter speed and the optimal exposure metered by the camera. The display will flash if the difference exceeds ±3 EV.



- 1) Difference from optimal exposure
- When [Auto] is selected for [DISO], ISO sensitivity will automatically be adjusted for optimal exposure at the selected exposure settings. [DISO] defaults to [Auto].
 "Changing ISO sensitivity (ISO)" (P.175)
- **3.** Release the shutter.

- ☼ Depending on the shutter speed selected, you may notice banding in the display caused by flicker from fluorescent or LED light sources. The camera can be configured to reduce the effects of flicker during live view or when pictures are taken. Frequency (Reducing Flicker in Photographs (Anti-Flicker Shooting)" (P.212), "Reducing Flicker Under LED Lighting (Flicker Scan / Pricker Scan)" (P.166)

Subject Too Dark or Too Bright

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

Display	Problem/solution
— 1800 LG44 —	Overexposure. • Choose a higher aperture value or faster shutter speed.
- ISO 6400 -	Underexposure. • Choose a lower aperture value or slower shutter speed. • If the warning does not clear from the display, choose a higher value for ISO sensitivity. "Changing ISO sensitivity (ISO)" (P.175), "Setting the range of ISO sensitivity values selected in [Auto] mode (ISO-A Upper/Default / MISO-A Upper/Default)" (P.178)

Using Exposure Compensation in Mode M

In mode **M**, exposure compensation is available when [**Auto**] is selected for [**D**ISO]. Because exposure compensation is performed by adjusting ISO sensitivity, aperture and shutter speed are not affected. **D**CO "Changing ISO sensitivity (ISO)" (P.175), "Setting the range of ISO sensitivity values selected in [Auto] mode (**D**ISO-A Upper/Default / **M**ISO-A Upper/Default)" (P.178)

When setting the exposure compensation in M mode, it is required that you assign [☑] to a button. □ "Changing the roles of buttons (Button Settings)" (P.330)

- **1.** Hold the button to which [**½**] is assigned and rotate the front or rear dial.
 - Exposure compensation is added to the exposure difference shown in the display.



- ① Difference from the exposure setting value with compensation value added
- 2 Exposure compensation value

Long Exposures (B: Bulb/Time)

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

(?) For long exposures, it is recommended that you fix the camera securely on a tripod.

"Bulb" and "Live Bulb" Photography

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

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

"Time" and "Live Time" Photography

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

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





1) Bulb or time photography

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

3. Press the **MENU** button.

 You will be prompted to choose the interval at which the preview is updated.



- **4.** Highlight an interval using $\Delta \nabla$.
- **5.** Press the **OK** button to save changes.
 - The menus will be displayed.
- **6.** Press the **MENU** button repeatedly to exit the menu.
 - If an option other than [Off] is selected, [Live Bulb] or [Live Time] will appear in the display.
- 7. Adjust aperture.
 - At default settings, aperture can be adjusted using the front dial.



8. Release the shutter.

- In bulb and live bulb modes, keep the shutter button pressed. The exposure ends when the button is released.
- In time and live time modes, press the shutter button all the way down once to start the exposure and again to end it.
- During live time photography, you can refresh the preview by pressing the shutter button halfway.
- The exposure ends automatically when the time selected for **[Bulb/Time Timer]** is reached. "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.271)
- [Noise Reduction] is applied after shooting. The display shows the time remaining until the process is complete. You can choose the conditions under which [Noise Reduction] is performed. * Long Exposure Noise Reduction Options (Noise Reduction)** (P.183)

② Some limitations apply to the choice of ISO sensitivity settings available.

- ② Bulb photography is used in place of live bulb photography when multiple exposure, keystone compensation, or fisheye correction is in effect.
- Time photography is used in place of live time photography when multiple exposure, keystone compensation, or fisheye correction is in effect.
- During shooting, there are limits on the settings for the following functions.
 - Sequential shooting, self-timer shooting, time lapse shooting, AE bracket shooting, flash bracketing, focus bracketing, Focus Stacking, etc.
- [☐ Image Stabilizer] (P.213) is automatically turned off.
- ② Depending on camera settings, the temperature, and the situation, you may notice noise or bright spots in the monitor. These may sometimes appear in pictures even when [Noise Reduction] is enabled. \(\mathbb{L}\mathbb{Z}\) "Long Exposure Noise Reduction Options (Noise Reduction)" (P.183)

∆்-Noise

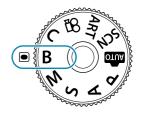
While shooting at slow shutter speeds, noise may appear on screen. These phenomena occur when the temperature rises in the image sensor or image sensor internal drive circuit, causing current to be generated in those sections of the image sensor that are not normally exposed to light. This can also occur when shooting with a high ISO setting in a high-temperature environment. To reduce this noise, the camera activates the noise reduction function. From Exposure Noise Reduction Options (Noise Reduction)" (P.183)

Lighten Blending (B: Live Composite Photography)

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

(?) For live composite photography, it is recommended that you fix the camera securely on a tripod.

1. Rotate the mode dial to B.



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





1) Live composite photography

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



- **4.** Highlight an exposure time using $\Delta \nabla$.
 - Choose an exposure time of from 1/2 to 60 s.
- **5.** Press the **OK** button to save changes.
 - The menus will be displayed.

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

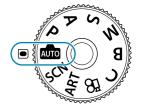


- **9.** Press the shutter button to start shooting.
 - Live composite photography will start. The display will be updated after each exposure.
- **10.** Press the shutter button again to end shooting.
 - Shooting ends automatically after the time selected for [Live Composite Timer]. This can be changed. "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.271)
 - The maximum recording time available varies with battery level and shooting conditions.
- (?) Some limitations apply to the choice of ISO sensitivity settings available.
- (?) The following cannot be used:
 - Sequential shooting, the self-timer, interval timer photography, AE bracketing, flash bracketing, focus bracketing, HDR photography, High Res Shot, Focus Stacking, multiple exposure, keystone compensation, live ND shooting, and fisheye compensation.
- [Image Stabilizer] (P.213) is automatically turned off.
- Starry sky AF can be used for shots of the night sky. F "Choosing a focus mode (AF Mode / AF Mode)" (P.110), "Changing the settings of Starry Sky AF (Starry Sky AF Setting)" (P.129)
- The exposure time for each exposure made during live composite photography can be chosen in advance using the menus. Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.271)

Letting the camera choose the settings (AUTO mode)

The camera adjusts settings to suit the scene; all you have to do is press the shutter button. Use live guides to easily adjust such parameters as color, brightness, and background blurring.

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



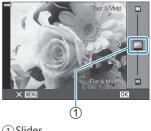
- In auto mode, the camera automatically selects the scene mode option appropriate to your subject when you press the shutter button halfway. Once the selection has been made, the icon in the bottom left corner of the display will be replaced by the icon for the chosen scene.
- **2.** To adjust shooting settings, display the live guide by pressing the **OK** button.



1) Guide item

• Use $\Delta \nabla$ to highlight an item in the live guide and press **OK** to display a slider.

3. Use $\triangle \nabla$ to position the slider and choose a level.



(1)Slider

- Press the **OK** button to save changes.
- To exit, press the **MENU** button.
- When **[Shooting Tips]** is selected, use $\Delta \nabla$ to highlight the item and press the **OK** button to display the detail.
- The effect of the selected level is visible in the display. If [Blur Background] or [Express Motions] is selected, the display will return to normal, but the selected effect will be visible in the final photograph.
- **4.** To set multiple live guides, repeat Steps 2 and 3.



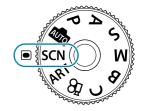
- A check is displayed on the guide item for live guides that are already set.
- To clear the live guides from the display, press the **MENU** button.
- (?) [Blur Background] and [Express Motions] cannot be set at the same time.
- **5**. Release the shutter.
- &-Live guide settings can also be adjusted using touch controls.
- & If [RAW] is currently selected for image quality, image quality will automatically be set to RAW+JPEG.
- (1) Live guide settings are not applied to the RAW copy.
- (?) Pictures may appear grainy at some live guide setting levels.
- (?) Changes to live guide setting levels may not be visible in the monitor.
- The flash cannot be used when a live guide is set.
- (1) Choosing live guide settings that exceed the limits of the camera exposure meters may result in pictures that are overexposed or underexposed.

 Frame rates drop the closer the [Express Motions] slider is to [Blurred Motion]. The settings for [Blur Background] and [Express Motions] do not apply to movies.

Shooting in scene mode (SCN mode)

The camera automatically optimizes settings for the subject or scene.

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



2. Use $\triangle \nabla \triangleleft \triangleright$ to highlight a scene and press the **OK** button.



3. Use $\triangleleft \triangleright$ to highlight a scene mode and press the **OK** button.



- **4.** Release the shutter.
 - To choose a different scene, press the **OK** button. Next, press the **MENU** button to return to the scene-selection display.

Types of scene modes

Scenery

	Landscape	Suitable for landscape shooting.	
	Portrait + Landscape	Suitable for portraits featuring a landscape in the background. Blues, greens, and skin tones are captured beautifully.	
=	Sunset	Suitable for shooting the sunset.	
*	Beach & Snow	Suitable for shooting at snow-capped mountains, seascapes in the sun, and other whitish scenes.	
	Panorama Take photos that can afterwards be joined on a computer to opanorama. For information on taking photos using this feature, see "S a Panorama" (P.78).		
HDR	Backlight HDR	Suitable for high-contrast scenes. Each time the shutter button is pressed, the camera takes four shots that are automatically combined to form a single, correctly exposed image when shooting is complete.	

Close-ups

× *	Nature Macro	Suitable for vivid close-ups of flowers or insects.
*	Macro	Suitable for close-ups.
	Multi Focus Shot	The camera takes eight photos, varying the focus distance with each shot.
	Documents	Suitable for photos of timetables or other documents. The camera heightens the contrast between the text and background.

People

	Portrait + Landscape	Suitable for portraits featuring a landscape in the background. Blues, greens, and skin tones are captured beautifully.	
	Portrait	Suitable for portrait shooting. Brings out skin texture.	
	e-Portrait	Smooths out skin tones and texture. The camera records two pictures: one with the effect applied and one without.	
ٷ <u>.</u>	Portrait + Nightscape	Suitable for portrait shooting against a background of night view. Attach an external flash unit designed for use with the camera (P.185). We recommend that you use a tripod and either OM Image Share or an optional remote control (P.416, P.431).	
L a	Children	Suitable for photographs of children and other active subjects.	

Nightscapes Light Trails

	The camera automatically shoots multiple images, takes newly areas only, and composites them into a single image. With no long exposure, an image of light trace such as star trails with I buildings tends to get too bright. You can capture them without over exposure while checking the progress. Press the shutter It to start shooting, then view the changing result in the monito press the shutter button again to end shooting once the desir result is achieved (maximum 3 hours). We recommend that you a tripod and either OM Image Share or an optional remote con (P.416, P.431). SAdvanced settings can be accessed via live composite photography (dark and light field composite) in mode B (P.		
Z	Nightscape	Suitable for tripod shooting of night scenes. We recommend that you use a tripod and either OM Image Share or an optional remote control (P.416, P.431).	
٧.	Portrait + Nightscape	Suitable for portrait shooting against a background of night view. Attach an external flash unit designed for use with the camera (P.185). We recommend that you use a tripod and either OM Image Share or an optional remote control (P.416, P.431).	

Handheld Starlight	Suitable for shooting night scenes without a tripod. Reduces blur when shooting low light/illuminated scenes. The camera makes eight exposures and combines them into a single photograph.
Fireworks	Suitable for shooting fireworks at night. We recommend that you use a tripod and either OM Image Share or an optional remote control (P.416, P.431).

Motion

*	Sport Suitable for fast action shooting. The camera will take photos the shutter button is pressed.	
⋭ «	Children	Suitable for photographs of children and other active subjects.
Æ	Panning	Choose to blur the background behind moving objects. The camera chooses the optimal shutter speed for panning shots based on camera motion.

Indoors

ij	Candlelight	Suitable for shots of candlelit scenes. Warm colors are preserved.	
۳	Silent [♥]	Disable camera sounds and lights in situations in which they may be unwelcome.	
	Portrait	Suitable for portrait shooting. Brings out skin texture.	
	e-Portrait	Smooths out skin tones and texture. The camera records two pictures: one with the effect applied and one without.	
K	Children	Suitable for photographs of children and other active subjects.	
O E HDR	Backlight HDR	Suitable for high-contrast scenes. Each time the shutter button is pressed, the camera takes four shots that are automatically combined to form a single, correctly exposed image when shootin is complete.	

- (2) To maximize the benefits of the scene modes, some of the shooting function settings are disabled.
- ② Some time may be needed to record pictures taken using [e-Portrait]. In addition, when the image quality mode is [RAW], the image is recorded in RAW + JPEG.
- Movies cannot be recorded using [e-Portrait], [Handheld Starlight], [Panorama], [Backlight HDR], or [Light Trails].
- [Handheld Starlight] pictures taken with [RAW] selected for image quality will be recorded in RAW + JPEG format, with the first frame recorded as a RAW image and the final composite as a JPEG image.
- [Backlight HDR] records HDR-processed images in JPEG format. When the image quality mode is set to [RAW], the image is recorded in RAW+JPEG.
- When using a lens with an image stabilizer switch in [Panning], turn the image stabilizer switch off. Sufficient panning effects may not be obtained in bright conditions. Use a commercially available ND filter to obtain effects more easily.
- Shooting will end if zoom is adjusted while photographs are being taken in [Multi Focus Shot]
 mode.
- No pictures can be taken in [Multi Focus Shot] mode when a Four Thirds lens is attached.

Shooting a Panorama

Pictures taken using this option can be joined together to form a panorama. You will need to install the latest version of OM Workspace on your computer to join pictures together to form a panorama.

If "Installing Software" (P.421)

- **1.** Highlight [Panorama] in the scene mode menu (P.74) and press the **OK** button.
- **2.** Use $\triangle \nabla \triangleleft \triangleright$ to choose a pan direction.
- **3.** Take a picture, using the guides to frame the shot.
 - Focus, exposure, and other settings are fixed at the values for the first shot.



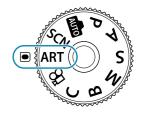
4. Take the remaining images, framing each shot so that the guides overlap with the previous picture.



- A panorama may include up to 10 images. A warning indicator (ا間) is displayed after the tenth shot.
- ① During panorama shooting, the image previously taken for position alignment will not be displayed. With the frames or other markers for display in the images as a guide, set the composition such that the edges of the overlapping images overlap within the frames.
- **5.** After taking the last shot, press **OK** to end the series.

Using art filters (ART mode)

1. Rotate the mode dial to ART.



2. Use $\triangleleft \triangleright$ to highlight a filter.



- **3.** Press ∇ , highlight an effect using $\triangleleft \triangleright$, and press the **OK** button.
- **4.** Release the shutter.
 - Press the **OK** button to choose a different art filter. If effects are displayed, press Δ .
 - The effects available vary with the selected filter (Soft Focus Effect, Pin Hole Effect, Frame Effect, White Edge Effect, Star Light Effect, Color Filter, Monochrome Color, Blur Effect, or Shade Effect).

Types of art filters

ART 1	Pop Art I/II	Creates an image that emphasizes the beauty of color.	
ART 2	Soft Focus	Creates an image that expresses a soft tone atmosphere.	
ART 3	Pale&Light Color I/II	Creates an image that expresses warm light by scattering overall light and slightly overexposing the image.	
ART 4	Light Tone	Creates a high-quality image by softening both shadows and highlights.	
ART 5	Grainy Film I/II	Creates an image that expresses the roughness of black and white images.	
ART 6	Pin Hole I/II/III	Creates an image that looks as if it was taken using an old or toy camera by dimming the image perimeter.	
ART 7	Diorama I/II	Creates a miniature-like image by emphasizing saturation and contrast, and blurring unfocused areas.	
ART 8	Cross Process I/II	Creates an image that expresses a surreal atmosphere. Cross Process II creates an image that emphasizes magenta.	
ART 9	Gentle Sepia	Creates a high-quality image by drawing out shadows and softening the overall image.	
ART 10	Dramatic Tone I/II	Creates an image that emphasizes the difference between brightness and darkness by partially increasing contrast.	
ART 11	Key Line I/II	Creates an image that emphasizes edges and adds an illustrative style.	
ART 12	Watercolor I/II	Creates a soft, bright image by removing dark areas, blending pale colors on a white canvas, and further softening contours.	
ART 13	Vintage I/II/III	Expresses an everyday shot in a nostalgic, vintage tone using printed film discoloration and fading.	
ART 14	Partial Color I/II/III	Impressively expresses a subject by extracting colors you want to emphasize and keeping everything else monotone.	

ART 15	Bleach Bypass I/II	The "bleach bypass" effect, which you may recognize from motion pictures and the like, can be used to great effect in shots of streetscapes or metal objects.
ART 16	Instant Film	A contemporary take on the shadow and skin tones typical of film.
ART BKT	ART BKT (ART bracketing)	Records images using all art filter options with a single shot. Press the ∇ button, select [ART BKT Setting] , and press the OK button to select the filter to be recorded.

II and III are altered versions of the original (I).

- To maximize the benefits of the art filters, some of the shooting function settings are disabled.
- ① If **[RAW]** is currently selected for image quality (P.219), image quality will automatically be set to RAW+JPEG. Art filters apply only to the JPEG copy.
- ② Depending on the scene, the effects of some settings may not be visible, while in other cases tone transitions may be ragged or the image rendered more "grainy".
- ② Some effects may not be visible during movie recording.
- Playback may differ according to the filters, effects, or movie quality settings applied.

Using [Partial Color]

Record only selected hues in color.

- **1.** Rotate the mode dial to **ART**.
- 2. Select [Partial Color I/II/III] in the art filter menu.
- **3.** Press the ∇ button to select [Color].
 - A color ring appears in the display.



- **4.** Rotate the front or rear dial to choose a color.
 - The effect is visible in the display.
 - Colors can also be selected with the △▷ buttons.
- **5.** Press the **OK** button.
 - Save the current setting and exit to the shooting display.
- **6.** Release the shutter.

& Press the **OK** button to change the color after shooting. If the color ring is not displayed, press the $\Delta \nabla$ buttons to select **[Color]**.

Saving Custom Settings to the Mode Dial (C Custom mode)

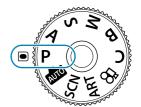
Save frequently-used shooting settings in pairs with shooting modes as custom modes and recall as needed by simply rotating the mode dial. Saved settings can also be recalled from the menus. You can register custom mode names to distinguish each set of saved settings (P.88).

- Save settings to positions C through C4.
- The P mode settings are registered by default.

Saving Settings (Assign)

PASMB A

- **1.** Choose a shooting mode other than \blacksquare , **SCN**, **ART**, or \square and adjust camera settings as desired.
 - For information on the settings that can be saved, see "Default Settings" (P.468).



- Press the MENU button to view the menus.



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

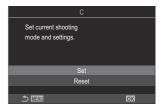
6. Highlight the desired custom mode (**[C]** – **[C4]**) using $\Delta \nabla$ buttons and press the **OK** button.



- The menu for the selected custom mode will be displayed.
- Highlight [Assign] using the △∇ buttons and press the OK button.



- **8.** Highlight [Set] using the $\Delta \nabla$ buttons and press the OK button.
 - Any existing settings will be overwritten.
 - To restore default settings for the selected custom mode, highlight [Reset] and press the OK button.



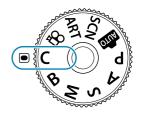
9. Press the **MENU** button to exit the menus.

Using Custom Modes (C custom modes)

To recall all saved settings, including the shooting mode:

Recalling Settings with the Mode Dial

- **1**. Rotate the mode dial to **C**.
 - The settings saved for [C] using [Assign] (P.84) are recalled.



 If a custom name has been set (P.88), it is displayed on the screen.



1) Custom mode name

& By default, changes made after recall will not be applied to the stored settings. The saved settings will be restored when next you select the custom mode with the mode dial.

Recalling Saved Settings

In modes other than @, SCN, ART, or $ext{$\Omega$}$, you can recall the settings saved for custom modes [C] through [C4].

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

3. Highlight [1. Basic Settings/Image Quality] using the ⊲⊳ buttons or the rear dial.



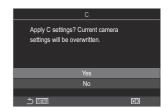
- **4.** Highlight [Custom Mode] using the $\Delta \nabla$ buttons and press the **OK** button.
- **5.** Highlight the desired custom mode (**[C] [C4]**) using $\triangle \nabla$ buttons and press the **OK** button.



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



Highlight [Yes] using the △∇ buttons and press the OK button



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

- &When the mode dial is set to **C**, recalling settings also changes the shooting mode to the saved mode. The registered custom mode name will not be recalled.
- Settings recalled by pressing a button to which [C] [C4] (Custom Mode C−C4) has been assigned in [○Button Function] (P.330) cease to apply when you:
 - Turn the camera off
 - Rotate the mode dial to another setting
 - Press the **MENU** button during shooting
 - Perform a reset
 - Save or recall custom settings

Saving the Changes Made to Settings while in Custom Modes

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

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

Setting custom mode names (Custom Mode Name)

Custom mode names can be set.

- **1.** Choose a shooting mode other than m, **SCN**, **ART**, or R.
- **2.** Press the **MENU** button to view the menus.
- **3.** Highlight the \square_1 tab using the front dial.

- **4.** Highlight [1. Basic Settings/Image Quality] using the ⊲⊳ buttons or the rear dial.
- **5.** Highlight [\square Custom Mode] using the $\triangle \nabla$ buttons and press the OK button.
- **6.** Highlight the desired custom mode ([C] [C4]) using $\Delta \nabla$ buttons and press the **OK** button.
- **7.** Highlight [Custom Mode Name] using the $\Delta \nabla$ buttons and press the OK button.
- **8.** Enter a desired name.

Entering characters

- **1.** Press the **INFO** button to switch between uppercase, lowercase and symbols.
- **2.** Highlight a character using $\triangle \nabla \triangleleft \triangleright$, and press the **OK** button to enter.
 - The selected character appears in the character entry area (a).
 - To delete a character, press the **u** button.
- **3.** To delete a character in the character entry area (a), move the cursor using the front and rear dials.
 - Select a character and press the **u** button to delete.
- **4.** When you have finished entering, select **[End]** and press the **OK** button.



- a Character entry area
- **b** Cursor movement keys
- **c** Keyboard
- **d** Operation guide
- Touch operation can also be used to enter characters and operate a to d.

①When a custom mode name is changed from the default settings, highlight

[Assign] → [Reset] and press the **OK** button to display a screen asking whether to delete the custom mode name.

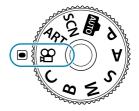
Highlight [**Delete**] to delete the custom mode name and return it to its default setting. Highlight [**Keep**] to save the custom mode name.

Recording Movies

- When recording movies, use an SD card that supports an SD speed class of 10 or higher.
- ② A UHS-II or UHS-I card with a UHS speed class of 3 or better is required when:
 - [4K] or [C4K] is selected for the image size in [\$\text{\$\pi\$} \cdots \cdots], [A-I] (ALL-Intra) is selected for the motion compensation in [\$\text{\$\pi\$} \cdots \cdots], or [120fps] is selected for the sensor frame rate in [\$\text{\$\pi\$} \cdots \cdots].
- When the camera is used continuously for extended periods, the temperature of the image sensor will rise and noise and color splotches may be visible in the display. Should this occur, turn the camera off and wait for it to cool. Noise and color splotches are particularly likely to occur at high ISO sensitivities. If the temperature of the sensor increases further, the camera will turn off automatically.
- (1) When using a Four Thirds system lens, AF will not be available during movie recording.
- ① Operating sounds may be recorded if you use the camera during movie recording.
- CMOS image sensors of the type used in the camera generate a so-called "rolling shutter" effect
 that can cause distortion in pictures of moving objects. This distortion is a phenomenon that occurs
 in pictures of fast-moving subjects or if the camera is moved during shooting. It is particularly
 noticeable in pictures taken at long focal lengths.
- When an SDXC card is used, movies up to 2 hours long can be recorded. Movies over 2 hours are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 2-hour limit is reached).
- When an SD/SDHC card is used, movies over 4 GB in size are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 4 GB limit is reached).
- & When shooting a movie with the camera in portrait position, the information is recorded in portrait position. When the movie is played back on a computer or smartphone, it will be played back in the same orientation that it was shot in.

Rotate the mode dial to Ω (movie mode) to record movies using the effects available in **P**, **A**, **S**, and **M** modes (P.91).

1. Rotate the mode dial to Ω .



- **2.** Press the **1** button to begin recording.
 - A beep is not heard when the camera focuses in movie mode.
 - Movie you are recording will be displayed on the monitor.
 - If you put your eye to the viewfinder, movie you are recording will be displayed in the viewfinder.
 - A red frame is displayed during movie recording (P.287).
 - The movie recording lamp lights while recording (P.288).
 - You can change the focus location by tapping the screen while recording.
 - Exposure and sound recording level can be set while recording.
 - The camera will start the recording count and display the recording time.

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

Selecting the exposure mode for recording ($\overset{\frown}{\bowtie}$ Mode (Movie exposure mode))

PASMB A

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

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

- **2.** Highlight the Ω (movie) tab using the front dial.
- **3.** Highlight [1. Basic Settings/Image Quality] using the $\triangleleft \triangleright$ buttons or the rear dial.
- **4.** Highlight [Ω Mode] using the $\Delta \nabla$ buttons and press the **OK** button.
- **5.** Highlight the desired mode using the $\Delta \nabla$ buttons and press the **OK** button.
 - P Optimal aperture is set automatically according to the brightness of the subject.
 Use the front dial or rear dial to adjust exposure compensation.
 - A Depiction of background is changed by setting the aperture.

 Use the front dial to adjust exposure compensation and rear dial to adjust aperture.
 - Shutter speed affects how the subject appears. Use the front dial to adjust exposure compensation and rear dial to adjust shutter speed.

 Shutter speed can be set to values between 1/24 s and 1/32000 s.

Freely adjust both aperture and shutter speed.

Use the front dial to select aperture value and the rear dial to select shutter speed.

- Choose from shutter speeds of 1/24–32000 s. Values of ISO 200–6400 are available using the [$\mathfrak P$ ISO] manual sensitivity control options.
- The display shows the difference between the exposure produced by the selected aperture and shutter speed and the optimal exposure metered by the camera. The display will flash if the difference exceeds ±3 EV.
- The option chosen for [MISO-A Upper/Default] (P.178) takes effect.
- The low end of the shutter speed changes according to the frame rate of the movie record mode.
- **6.** Press the **MENU** button to exit the menus.

M

Recording movies in photo shooting modes

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

- - **1.** Press the **1.** button to begin recording.
 - "

 REC", the recording time, and a red frame are displayed during movie recording (P.287).

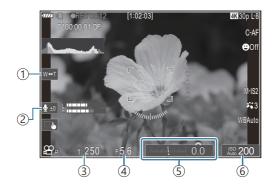


1) Recording time

- If you put your eye to the viewfinder, movie you are recording will be displayed in the viewfinder.
- You can change the focus location by tapping the screen while recording.
- **2.** Press the button again to end recording.
 - When recording ends, " REC", the recording time, and the red frame are cleared from the display (P.287).
- Pressing the button does not start movie recording in the following instances:
 - During a multiple exposure, while the shutter button is pressed halfway, during sequential shooting, time-lapse photography, keystone compensation, or fish-eye correction, or while live ND shooting or scene mode ([e-Portrait], [Handheld Starlight], [Panorama], [Backlight HDR], or [Light Trails]) is in use

Touch Controls (Silent Controls)

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



- (1) **Electronic Zoom**: Zoom power zoom lenses in or out.
- (2) **Sound Recording Level**: Choose the recording level.
- ③ **Shutter Speed**: Adjust shutter speed when **[S]** (shutter-priority AE) or **[M]** (manual) is selected for **[M] Mode]** (movie exposure mode) (P.91).
- 4 Aperture Value: Adjust aperture value when [A] (aperture-priority AE) or [M] (manual) is selected for [Mode] (movie exposure mode) (P.91).
- ⑤ Exposure Comp.: Adjust exposure compensation. If [M] is selected for [♀ Mode] (movie exposure mode) (P.91), exposure compensation is available when [Auto] is selected for [♀ ISO] (P.175).
- ⑥ **LSO**: Adjust [**LSO**] (P.175). This option is available when **[M]** is selected for **[LSO]** (movie exposure mode) (P.91).
- (2) Silent controls are not available when recording movies with a sensor frame rate of [120fps].

Shooting Settings

How to change the shooting settings

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

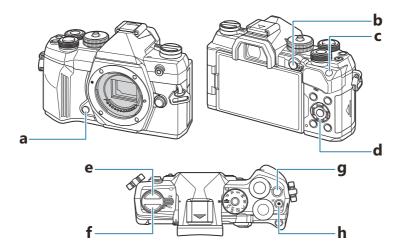
Method	Description
Direct Buttons	Adjust settings directly using buttons, including those listed below. Commonly-used functions are assigned to buttons for quick access during viewfinder photography (P.96). • 🖳 🖒 button, ISO button, and so on
LV super control panel/ super control panel	Choose from a list of settings showing current camera status. You can also view current camera settings (P.100).
Menu	In addition to shooting and playback options, the menus contain options that let you customize the operation and display of the camera, and set up the camera (P.106).

Direct Buttons

Functions and Direct Buttons

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

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



Direct buttons for still photography

	Direct button	Assigned function
a	Preview button	Preview (P.330)
b	AF-ON button	AF-ON (P.126, P.127)
С	ISO button	ISO Sensitivity (P.175)
d	Arrow pad ($\Delta \nabla \triangleleft \triangleright$)	AF Area Select (AF area select) (P.115)
е	및 ③ button	Sequential/self-timer shooting (P.199)

Direct button		Assigned function
f	Ol (LV) button	Display (monitor/viewfinder) selection (P.45)
g	CP button	Computational Modes (P.340)
h	button	Movie recording (P.90)

Each button can be assigned other roles. Changing the roles of buttons (Button Settings)" (P.330)

Direct buttons for movie recording

Direct button		Assigned function
a	Preview button	Zoom (P.121)
b	AF-ON button	AF-ON (P.126, P.127)
С	ISO button	ISO Sensitivity (P.175)
d	Arrow pad ($\Delta \nabla \triangleleft \triangleright$)	AF Area Select (AF area select) (P.115)
е	및 ③ button	Off ¹
f	Ol (LV) button	[EVF Auto Switch] (P.388) by pressing and holding the button
g	CP button	Exposure compensation (P.161)
h	• button	Movie recording (P.90)

¹ No function is assigned by default.

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

Each button can be assigned other roles. Changing the roles of buttons (Button Settings)" (P.330)

Setting with Direct Buttons

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

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



(1) Selection menu

2. Rotate the front/rear dial to select a setting.



- Setting values can also be selected by tapping the screen.
- You can also use the
 D buttons.
- Press the shutter button halfway to save the current setting and exit to the shooting display.
- You can also return to the shooting display by pressing the button you pressed in step 1.
- With some functions, further detailed settings are available after selecting the setting in step 2. For information on how to operate, see the explanation of each function.

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

Button

• 🖳 🖒 button 🔿 🕿 🐸

Quickly changing the setting while keeping the button pressed

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

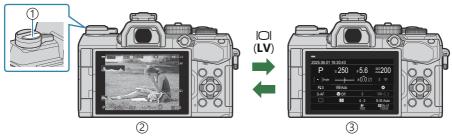
The setting screen closes when you release the button.

LV Super Control Panel/Super Control Panel

On LV Super Control Panel/Super Control Panel

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

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



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

LV Super Control Panel (Live View Photography)

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



Super Control Panel (Viewfinder Photography)

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



Setting with LV Super Control Panel/Super Control Panel

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

- 1. Press the **OK** button.
 - The last setting used will be highlighted.



(1) Cursor

- **2.** Highlight an item using $\triangle \nabla \triangleleft \triangleright$.
 - The selected setting will be highlighted.
 - The name of the selected function appears.
 - You can also highlight items by tapping them in the display.



3. Rotate the front/rear dial to change the highlighted setting.



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

In this manual, the procedure for changing a setting using LV super control panel and super control panel is shown as follows.

Super Control Panel

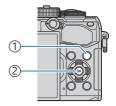
• OK → Face & Eye Detection

Additional Options

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

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

In some cases, additional options can be configured.



- 1) **INFO** button
- (2)**OK** button

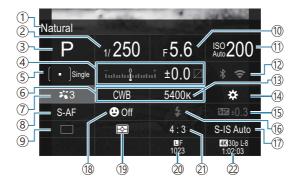


- (1)LV Super Control Panel/Super Control Panel display
- 2 Selection menu display
- ③ Detailed setting display

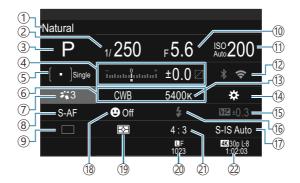
Functions Available with the LV Super Control/ Super Control Panel

Photo shooting mode

LV super control panel



Super control panel

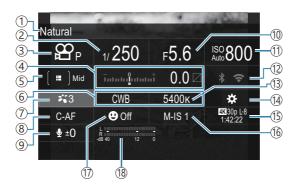


- 1) Name of the currently selected option
- (2) Shutter Speed (P.56, P.61)
- (3) Shooting Mode (P.49)
- (4) Exposure Compensation / Highlight & Shadow Control (P.161 / P.339)
- 5 AF Target Mode (P.116)
- 6 White Balance (P.235)
- 7 Picture Mode (P.227)
- (8) AF Mode (P.110)
- (9) Drive (sequential/self-timer shooting) (P.199)
- 10 Aperture Value (P.56, P.59)
- 11 SO Sensitivity (P.175)

- (12) Wi-Fi/Bluetooth (P.408)
- (P.235)
- (14) Button Function (P.330)
- (15) Flash Intensity Control (P.194) Manual Value (P.189)
- (16) Flash (P.189)
- 17 Image Stabilizer (P.213)
- (18) Face & Eye Detection (P.130)
- (19) Metering (P.168)
- 20 Image Quality, Number of Storable Still Pictures (P.219, P.509)
- 21) Aspect Ratio (P.225)
- 22 A Movie Quality, Available Recording Time (P.220, P.511)

Movie recording mode

LV super control panel



- 1) Name of the currently selected option
- (2) Shutter Speed (P.91)
- (3) Mode (movie exposure mode) (P.91)
- (4) Exposure Compensation / Highlight & Shadow Control (P.161 / P.339)
- ⑤ AF Target Mode (P.116)
- ⑥ ₩ White Balance (P.235)
- 7 Picture Mode (P.227)
- (8) ♣ AF Mode (P.110)
- (9) Sound Recording Level (P.94)

- (10) Aperture Value (P.91)
- 11 PISO Sensitivity (P.175)
- (12)Wi-Fi/Bluetooth (P.408)
- (13) Color Temperature (P.235)
- 14 Button Function (P.330)
- (5) Movie Quality, Available Recording Time (P.220, P.511)
- (6) Mage Stabilizer (P.213)
- 17) Face & Eye Detection (P.130)
- (18) Sound Recording Level Meter (P.94)

Using the menu

What you can do with menus

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

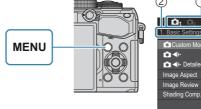
There are several tabs which represent function categories, and related functions are contained in each page.

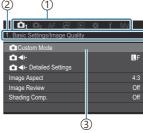
How to operate the menus

Front dial (🕿)	Select a tab.
√Rear dial (❤)	Select a page.
Δ∇	Move the cursor.
OK button	Confirm the setting/proceed to the next screen.
MENU button	Cancel operation/return to previous screen.

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

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





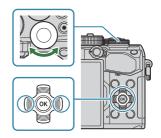
- (1)Tab
- (2) Page title
- (3) Cursor

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





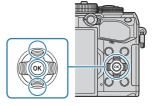
3. Use $\triangleleft \triangleright$ or the rear dial to select the desired page.



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



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





1) The configured item will be displayed.

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

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

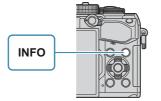


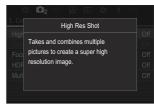
&-To cancel menu operation, press the **MENU** button.

& For the default settings of each option, refer to "Default Settings" (P.468).

Displaying the description of a menu item

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





Items shown in gray

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

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



Basic functions for focusing

Choosing a focus mode (AF Mode / AF Mode)

PASMB PA

You can select a focusing method (focus mode).

Super control panel

• OK → □AF Mode/\(\Omega\) AF Mode

Menu

- MENU → AF → 1. AF → □ AF Mode

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

MF (Manual focus)	This function allows you to manually focus on any position by operating the focus ring on the lens. 1 Near 2 ∞ 3 Focus ring
S-AF MF	The camera focuses in S-AF mode. You can adjust the focus position by operating the focus ring on the lens.
C-AF+TR (AF tracking)	Press the shutter button halfway or press the AF-ON button to focus; the camera then tracks and maintains focus on the current subject while the button is held in position. In movie mode, the camera continues AF tracking even if you release the button before you start recording. To stop it, press the OK button. When you start recording a movie while the camera is tracking the subject, it will continue tracking. AF tracking always operates during recording. • During AF tracking, a white frame is displayed on the subject being tracked. • If the tracked subject is lost, the frame will be displayed in gray. Release the button and then frame the subject again and press the shutter button halfway or press the AF-ON button. If [On2] is selected for [AF Area Pointer], AF targets will appear at the areas in focus instead a white frame. When using AF tracking (P.116), [AHI Cannot be selected for AF target mode. Tracking AF cannot be used with: - keystone compensation, High Res Shot, focus bracketing, focus stacking, interval-timer photography, HDR photography, live ND shooting, fisheye compensation
Pre MF (Preset MF)	The camera automatically focuses on the preset focus point when shooting.
Sky AF) (only during photo shooting)	Choose this mode for pictures of stars in the night sky. Press the AF-ON button to focus on the stars. Starry Sky AF" (P.112)

- ② [S-AF M] only appears in [A AF Mode].
 To focus manually during autofocus when taking pictures, use [AF+MF]. AF+MF (Combined Auto and Manual Focus (AF+MF)" (P.123)
- [C-AF+TR] does not appear if a setting other than [Off] is selected for [Face & Eye Detection] (P.130).
- The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast
- The camera may fail to track the subject depending on its type or on shooting conditions.
- (1) When using a Four Thirds system lens, AF will not be available during movie recording.
- ② [▲ AF mode] / [♠ AF mode] selection is not available if [Operative] is selected for [MF Clutch]
 (P.158) and the lens focus ring (P.441) is in the MF position or if the focus switch is set to MF.
- The **Fn** lever can be used to quickly switch the AF mode. Customizing the **Fn** Lever (Fn Lever Settings)" (P.347)

Using Starry Sky AF

- 1. Select [XAF] for AF mode.
- 2. Press the AF-ON button to initiate starry sky AF.
 - To interrupt starry sky AF, press the **AF-ON** button again.
 - You can configure the camera so that starry sky AF starts when the shutter button is pressed halfway. The "Changing the settings of Starry Sky AF (Starry Sky AF Setting)" (P.129)
 - The camera displays [Starry Sky AF is Running] during starry sky AF. The in-focus indicator
 (●) is displayed for about two seconds after the camera focuses; if the camera is unable to
 focus, the in-focus indicator will instead flash for about two seconds.
- **3.** Press the shutter button the rest of the way down to take the picture.
- (?) The camera will not be able to focus in bright locations.
- (?) Starry sky AF cannot be used with Pro Capture.
- Starry sky AF cannot be used if a setting other than [Off] is selected for [Face & Eye Detection] (P.130).
- ② [☐ Orientation Linked [:::] (P.145), [[:::] Loop Settings] (P.150), [☐ AF Limiter] (P.138), [AF Illuminator] (P.143), and [☐ AF Scanner] (P.140) are fixed at [Off].

- (1) Manual focus is selected when a Four Thirds lens is attached.
- ② Starry sky AF is available with Micro Four Thirds lenses made by OM Digital Solutions or OLYMPUS. It cannot, however, be used with lenses with a maximum aperture over F5.6. For more information, visit our website.
- [AF Priority] (P.129) in [Starry Sky AF Setting] offers a choice of [Accuracy] and [Speed]. Mount the camera on a tripod before taking photographs with [Accuracy] selected.
- Your choice of AF target modes is restricted to []Single, []Middle, and []Large (P.116).
- & When [On] is selected for [Release Priority] in [Starry Sky AF Setting], the shutter can be released even when the subject is not in focus.

Setting a focus position for Preset MF

- 1. Select [Pre MF] in AF mode and press the INFO button.
- **2.** Press the shutter button halfway to focus.
 - Focus can be adjusted by rotating the focus ring.
- Press the OK button.
- & The distance for the preset focus point can be set with [Preset MF distance] (P.157).
- - when turned on and
 - when you exit the menus to the shooting display.

Adjusting Focus Manually During Autofocus

- Select [On] for [AF+MF] (P.123) in advance. III is displayed next to [S-AF], [C-AF], [C-AF+TR], or [AFI.
 - **1.** Choose a focus mode marked with a ME icon (P.110).
 - When recording movies, choose [S-AFMF].
 - **2.** Press the shutter button halfway to focus using autofocus.
 - When using [XAFMI], press the AF-ON button to initiate Starry Sky AF.

- **3.** Keeping the shutter button pressed halfway, rotate the focus ring to adjust focus manually.
 - To refocus using autofocus, release the shutter button and press it halfway again.
 - Manual focus adjustment during autofocus is not available in [★AFME] mode.
 - Manual focus adjustment during autofocus is available via the focus ring on M.ZUIKO PRO lenses. For information on other lenses, visit our website.
- **4.** Press the shutter button the rest of the way down to take the picture.

Choosing a Focus Target (AF Target Point)

PASMB A

The frame showing the location of the focus point is referred to as the "AF target". You can position the target over your subject.

- **1.** Press the $\triangle \nabla \triangleleft \triangleright$ buttons to view the AF target.
- **2.** Use the $\triangle \nabla \triangleleft \triangleright$ buttons to select the AF position while selecting the AF target.
 - To select the center AF target, press and hold the OK button.
 - You can choose whether AF target selection "wraps around" the edges of the display (P.150).



3. Release the shutter.

- The AF target selection display will clear from the monitor when the shutter button is pressed halfway.
- The AF frame is displayed in the position of the selected AF target.
- &-You can also reposition the AF target during movie recording.
- & The size and number of the AF target changes depending on shooting settings.
- When **[On]** is selected for **[AF Targeting Pad]** (P.152), you can reposition the AF target using monitor touch controls while framing your subject in the viewfinder.

Choosing an AF Target Mode (AF Target Mode)

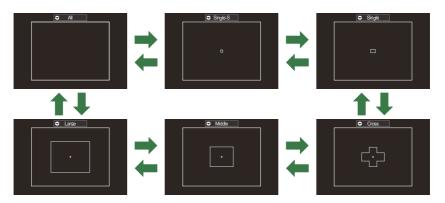
PASMB A

Button

• Either of \triangle , ∇ , \triangleleft , or \triangleright

Super control panel

- OK → ⚠AF Target Mode/AF Target Mode
- **1.** Press the $\triangle \nabla \triangleleft \triangleright$ buttons to view the AF target.
- **2.** Rotate the front dial to select size and shape while selecting the AF target.



Types of AF Target Modes

- ② The only options available during movie recording are []Single, []Middle, []Large, and []All



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

• The camera chooses from 121 (11 \times 11) targets during still photography and from 99 (11 \times 9) targets in movie mode.



[·]Single-S

An AF target smaller than the one used in [•]Single is available. Use this when the subject is small or when you want to focus on a smaller area.



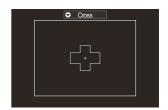
[•]Single

Select a single AF target.



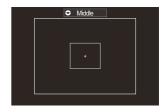
[+]Cross

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



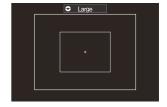
[III] Middle

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



[] Large

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



[| C1-[| C4 Custom Target

You can change the size of the AF target and the step (the distance it moves at one time). Custom target modes can be selected when there is a check (\checkmark) next to a custom target in [\bigcirc AF Target Mode Settings] (P.119).

- & The number of AF targets available may be reduced depending on shooting settings.
- Separate AF target modes can be selected according to camera orientation. Matching AF Target Selection to Camera Orientation (Orientation Linked ::-)" (P.145)
- The following focus settings can be recalled simultaneously using the **Fn** lever. Separate settings can be assigned to Positions 1 and 2 of the **Fn** lever. Use this option to quickly adjust settings according to shooting conditions.
 - [AF Mode] (P.110), [AF Target Mode] (P.116), and [AF Target Point] (P.115)

 The Fn lever can be configured using the [Fn Lever Function] (P.348) item or the [Fn Lever Function] (P.349) item.
- &-Separate options can be selected for still photography and movie mode.

Setting the options for AF target modes (AF Target Mode Settings)

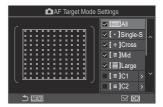
PASMB S



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

Menu

- MENU → AF → 6. AF Target Settings & Operations → AF Target Mode Settings
- **1.** Select the AF target modes that you want to have displayed as options and put a check (\checkmark) next to each of them.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (✓) next to it. To remove the check, press the **OK** button again.



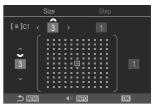
AF Target Mode Settings screen

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

[||]C1-[||]C4

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

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



Item	Horizontal	Vertical
Size	6 types $(1/3/5/7/9/11)$ Switch using $\triangleleft \triangleright$ or the front dial.	6 types (1 / 3 / 5 / 7 / 9 / 11) Switch using $\Delta \nabla$ or the rear dial.
Step	3 types (1 to 3) Switch using ◀▷ or the front dial.	3 types (1 to 3) Switch using $\Delta \nabla$ or the rear dial.

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

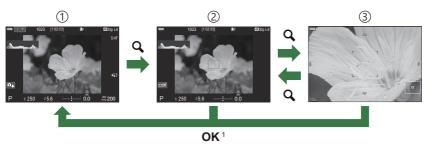
Zoom frame AF/Zoom AF (Super Spot AF)

PASMB PA

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

Button

- A button to which **Q** has been assigned
- ② To use Zoom frame AF/Zoom AF, you must assign [♀] (P.332) to a camera control.
 □ "Changing the roles of buttons (Button Settings)" (P.330)



- (1) Shooting display
- 2)Zoom frame AF display
- ③Zoom AF display
 - 1 You can also return to the shooting display by pressing and holding the button you assigned [Q] (magnify) to instead of the **OK** button.
- **1.** Press the button to which [**Q**] (magnify) is assigned.
 - The zoom frame will be displayed.



- **2.** Press the $\triangle \nabla \triangleleft \triangleright$ buttons to position the zoom frame.
 - To re-center the frame, press and hold the **OK** button.



- **3.** Adjust the size of the zoom frame to choose the zoom ratio.
 - Press the **INFO** button and then use the $\Delta \nabla$ buttons or the front or rear dial to adjust the size of the zoom frame.
 - Press the **OK** button to accept and exit.



- **4.** Press the button to which [Q] is assigned once more.
 - The camera will zoom the selected area in to fill the display.
 - Use the front or rear dial to zoom in or out.
 - Use $\triangle \nabla \triangleleft \triangleright$ to scroll the display.



- If the shooting mode is M (manual) or B (bulb) and [ISO Auto] is not selected, you can press the INFO button during zoom to choose aperture or shutter speed.
- Press the **Q** button to return to the zoom frame.
- Press the **OK** button to end focus zoom.
- You can also end focus zoom by pressing and holding the Q button.



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

- Procus zoom applies to the display only. Pictures taken with the camera are not affected.
- $\cite{Communication} \cite{Communication} \cite{$
- ${\mathfrak D}$ Focus zoom is not available when [${\mathfrak M}$ Digital Tele-converter] is [On].
- Fictures can also be taken during zoom frame AF display and zoom AF display.
- &-Touch controls can be used for focus zoom. \blacksquare "Shooting with touch screen operations" (P.52)
- & You can configure the camera to exit focus zoom when the shutter button is pressed halfway to focus. Come (LV Close Up Mode)" (P.352)

Functions for configuring how to focus

Combined Auto and Manual Focus (CAF+MF)

PASMB P



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

& The procedure varies with the AF Mode selected (P.110).

Menu

MENU → AF → 1. AF → AF+MF

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

• When [S-AFME] is selected, you can keep the shutter button pressed halfway or keep the AF-ON button pressed after focusing using single AF and adjust focus manually. Alternatively, you can switch to manual focus by rotating the focus ring while the camera is focusing. Focus can also be adjusted manually while the shutter is open and during burst photography.

On

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

Off Manual focus adjustment disabled during autofocus.

Manual focus is not available during burst photography in [[▼]□H] or [ProCapH] mode.

- Autofocus with manual focus is also available when autofocus is assigned to other camera controls.

 "Changing the roles of buttons (Button Settings)" (P.330)
- The lens focus ring can be used to interrupt autofocus only when M.ZUIKO PRO lenses are used. For information on other lenses, visit our website.

Configuring the AF operation when the shutter button is pressed (AF by halfpressing —)

PASMB P



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

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

S-AF	Set the AF operation for when the AF mode is [S-AF] .
	[No] : The camera does not start AF operation when the shutter button is pressed halfway.
	[Yes] : The camera starts AF operation when the shutter button is pressed halfway. If you press the shutter button halfway while pressing the AF-ON button, autofocus will be continued.
	Set the AF operation for when the AF mode is [C-AF] or [C-AF+TR] .
	Set the Ar operation for when the Ar mode is [C-Ar] or [C-Ar+1K].
C-AF/	[No]: The camera does not start AF operation when the shutter button is pressed halfway.

Autofocus using the AF-ON button

PASMB PA

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

Button

• AF-ON button

Using Autofocus in Manual Focus Mode (AF-ON in MF mode)

PASMB

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

Menu

• MENU → AF → 1. AF → AFON in MF mode

No If the AF mode is [MF] or [PreME], the camera does not focus with autofocus even when the AF-ON button is pressed.

Yes If the AF mode is [MF] or [PreME], the camera focuses with autofocus in [S-AF] mode when the AF-ON button is pressed.

② Fixed to [No] when the mode dial is rotated to \(\Omega\), [\(\Omega\) Mode] (movie exposure mode) set to [M], and [\(\Omega\) \(\left\): set to either slow- or fast-motion movie.

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

PASMB A



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

Menu

• MENU → AF → 1. AF → Release Priority

S-AF	Set the camera operation for when the AF mode is [S-AF] and it cannot focus on the subject with autofocus.
	[Off] : If the camera cannot focus on the subject with autofocus, the shutter cannot be released even when the shutter button is pressed fully. If the flash is configured to fire, the shutter cannot be released until the flash is charged.
	[On] : The shutter is released when the shutter button is pressed fully, even if the camera cannot focus on the subject with autofocus.
	Set the camera operation for when the AF mode is [C-AF] or [C-AF+TR] and it cannot focus on the subject with autofocus.
C-AF/C-AF+TR	[Off] : If the camera cannot focus on the subject with autofocus, the shutter cannot be released even when the shutter button is pressed fully. If the flash is configured to fire, the shutter cannot be released until the flash is charged.
	[On] : The shutter is released when the shutter button is pressed fully, even if the camera cannot focus on the subject with autofocus.

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

PASMB A

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

Menu

• MENU → AF → 1. AF → Starry Sky AF Setting

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

Functions for customizing AF operation to fit the subject

Tracking Focus on Faces or Eyes of Subjects (Face & Eye Detection)

PASMB #

The camera automatically detects and focuses on people's faces and eyes.

Super Control Panel

• OK → Face & Eye Detection

Menu

• MENU → AF → 2. AF → Face & Eye Detection

(Face Detection On)	Detect the subject's face and focuses on it.
⊕i (Face & Eye Detection)	Detect the subject's face and focuses on a closer eye.
⊕iL (Face & Left Eye Detection On)	Detect the subject's face and focuses on the left eye.
⊕iR (Face & Right Eye Detection On)	Detect the subject's face and focuses on the right eye.
Off	Face Priority AF is not used.

Taking Pictures Using [Face & Eye Detection]

- **1.** Point the camera at your subject.
 - When the camera detects faces, a white frame appears on the face in focus, and gray frames appear on other faces.
 Additional double frames are displayed on the four corners of the white frame on the face in focus.
 - A white frame is also displayed on the eye of the face in focus when [②i] (Face & Eye Detection On), [②iL] (Face & Left Eye Detection On), or [②iR] (Face & Right Eye Detection On) is selected and an eye is detected.



• You can choose whether to display an eye detection frame when the camera detects a face (P.134).

Face selection

- When the camera detects multiple faces and eyes, you can select the face to focus using the button to which the [Face Selection] function has been assigned in [Button Settings] (P.330).
 - Press the button to select a face closer to the AF target. When the AF target mode is set to [IIIII] All. a face closer to the center of the screen is selected.
 - Rotate the front or rear dial while pressing the button to switch the face in focus. Release the button to confirm the selection.
- You can also select the face to focus via touch screen operations (P.52).
- 2. Press the shutter button halfway to focus.
 - You can also focus by pressing the **AF-ON** button (P.126).
 - A green frame appears on the focused area of the detected face.
 - You can also select the face or the eyes with [MF] (P.110). When a face or eye is detected, a
 white frame will be displayed. In this case, the exposure will still be set centered on the face.
- **3.** Press the shutter button the rest of the way down to take the picture.
- The camera may fail to detect faces depending on the shooting conditions, the subject, or the art filter settings.
- ① When the zoom frame is displayed, the camera focuses on its position.

Configuring the C-AF operation when a face is not detected (\mathcal{L} C-AF when \mathcal{L})



Configure the C-AF operation when a face is not detected for movie recording.

Menu	
• MENU → AF → 2. AF → AP C-AF when ®	

Yes	The camera keeps focusing even when no face is detected.
No	The camera does not focus if no face is detected.

Assigning focus priority to buttons (Face & **Eye AF Button)**

PASMB P



Focus positions for face and eye detection can be individually configured for the shutter button and the AF-ON button.

Menu

• MENU → AF → 2. AF → ☐ Face & Eye AF Button

_	Select the AF operation for when the shutter button is pressed halfway. [Priority]: Automatically focus on faces and eyes when they are detected. [Priority]: Always tracks focus on the selected AF target point.
AF-ON	Select the AF operation for when the AF-ON button is pressed. [① Priority]: Automatically focus on faces and eyes when they are detected. [[::-] Priority]: Always tracks focus on the selected AF target point.

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

PASMB 🎛

You can choose whether to display an eye detection frame when the camera detects a face.

<u>Menu</u>	
• MENU → AF → 2. AF → Eye Detection Frame	

Off	The eye detection frame is not displayed.
On	The eye detection frame is displayed.

Even if [Eye Detection Frame] is set to [Off], the camera focuses on the eyes when they are
detected

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

PASMB P



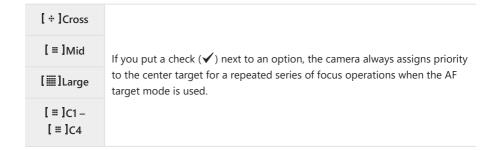
When focusing using group-target AF in [C-AF] and [C-AFME] modes, the camera always assigns priority to the center target in the selected group for a repeated series of focus operations. Only if the camera is unable to focus using the center focus target will it focus using the surrounding targets in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

Menu

- MENU → AF → 4. AF → C-AF Center Priority
- **1.** Select an AF target mode for which the camera always assigns priority to the center target for a repeated series of focus operations and put a check () next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (✓) next to it. To remove the check, press the **OK** button again.



C-AF Center Priority setting



(?) [[■]C1] - [[■]C4] can only be checked (✓) when either the horizontal or vertical [Size] specified in $[[\ \ \ \ \ \ \] \subset 1] - [[\ \ \ \ \ \ \] \subset 4]$ in $[\ \ \ \ \ \ \ \ \ \]$ AF Target Mode Settings] (P.119) is 3 or larger.

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

PASMB

Choose how rapidly the camera responds to changes in the distance to the subject while focusing with [C-AF], [C-AF M], [C-AF+TR] or [C-AF+TR] selected for [AF Mode], or with [C-AF] or [C-AF+TR] selected for [AF Mode]. This can help autofocus track a quickly-moving subject or prevent the camera refocusing when an object passes between the subject and the camera.

Menu

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

C-AF Focus Speed (ᢡC-AF Speed)

PASMB A

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

Menu

- MENU → AF → 5. Movie AF → \(\mathbb{C}\) C-AF Speed
- Choose from five focus speed levels.
- Refocusing is quicker when set to the + side and the side. Set to the side to gently bring the camera into focus from out of focus.

Functions for changing camera operation regarding focus

Lens Focus Range (AF Limiter)

PASMB P



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

Using the settings saved in [AF Limiter]

Menu • MENU → AF → 4. AF → AF Limiter

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



AF Limiter setting screen

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

3. Return to the AF Limiter setting screen.

② AF Limiter is not available in the following cases.

- When the focus limiter is enabled on the lens
- When using focus bracketing or focus stacking
- While in movie mode or recording a movie
- When [XAF] or [XAFMF] is selected for focus mode

Configuring [AF Limiter]

1. Configure options.

- Press △∇ to select an item and press the **OK** button to display the setting menu.
- Press the **OK** button again to return to the **O**AF Limiter setting screen.



Distance for On1	Set the range of focusing distances.	
Distance for On2	The range of focusing distances can be set from 000.0 to 999.9 m/ft. Use $\triangleleft \triangleright$ to move between digits and units (m/ft) and change options	
Distance for On3	with $\Delta \nabla$.	
Release Priority	[Off]: Complies to the [Release Priority] (P.128) setting. [On]: The shutter can still be released if the camera is unable to focus when a setting other than [Off] is selected for [AF Limiter].	

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

C-AF Lens Scanning (AF Scanner)

PASMB A

Choose whether the camera performs a focus scan. If the camera is unable to focus, it will scan for the focus position by cycling the lens from the minimum focus distance to infinity. You can limit the scanning operation if desired. This option takes effect when **[C-AF]**, **[C-AF+TR]**, **[C-AFWE]**, or **[C-AF+TRME]** is selected for **[OAF Mode]** (P.110).

Menu

• MENU → AF → 4. AF → AF Scanner

Off The camera will not scan if unable to focus. This prevents focus changing to such an extent that you lose sight of your subject when attempting to track small objects and the like.

On When unable to focus, the camera scans only once. The camera will not scan again as long as the focus operation continues.

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

Fine-Tuning Autofocus (AF Focus Adjustment)

PASMB P



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

Menu

- MENU → AF → 4. AF → AF Focus Adjustment
- (2) Normally there is no need to fine-tune autofocus using this item. Fine-tuning focus may prevent the camera focusing normally.
- ② AF focus adjustment has no effect in [S-AF] and [S-AFIII] when a Micro Four Thirds lens is attached

Using the saved focus adjustment value

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



AF Focus Adjustment setting screen

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

3. Return to the AF Focus Adjustment setting screen.

Configuring [AF Focus Adjustment]

1. Configure options.

- Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
- Press the **OK** button again to return to the **O**AF Focus Adjustment setting screen.



Fine-tuning Value

Adjusts focus for all lenses. Focus can be fine-tuned by up to ± 20 steps.

 $\hbox{[-20]}-\hbox{[\pm0]}-\hbox{[+20]}$

AF Illuminator Autofocus Assist (AF Illuminator)

PASMB A



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

Menu Menu	
• MENU → AF → 3. AF → AF Illuminator	

On	The illuminator lights during autofocus if the subject is poorly lit.
Off	The illuminator does not light even if the subject is poorly lit.

② To use this function in silent mode, it is required that you configure the [Silent [♥] Settings] setting (P.207).

AF Target Display Mode (AF Area Pointer)

PASMB PA

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

<u>Menu</u>	
• MENU → AF → 3. AF → AF Area Pointer	

Off	The focus target is not displayed.
On1	The focus target is displayed only briefly after the camera focuses.
On2	After the camera focuses, cluster AF targeting is enabled and the camera will display AF targets for all areas that are in focus while the shutter button is pressed halfway or the AF-ON button is pressed.

Functions for setting the focusing position

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

PASMB 🕮



The camera can be configured to change the AF target position and AF target mode automatically when it detects that it has been rotated between landscape (wide) or portrait (tall) orientations. Rotating the camera changes the composition and consequently also the position of the subject in the frame. The camera can store the AF target mode and AF target position separately according to camera orientation. When this option is active, [Set Home] (P.147) can be used to store separate home positions for landscape and portrait orientations.

Menu

- MENU → AF → 6. AF Target Settings & Operations → ☐ Orientation Linked […]
- **1.** Select a function with which you want to save different settings for landscape and portrait orientations, and put a check () next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (✓) next to it. To remove the check, press the **OK** button again.



Orientation Linked [•••] setting screen

AF Target Mode	When you put a check (✓) next to this, the camera saves separate AF target modes (e.g., [■]All, [•]Single) for landscape and portrait orientations.
AF Target Point	When you put a check (✓) next to this, the camera saves separate AF target positions for landscape and portrait orientations.

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

Choosing the AF Home Position (Set Home)

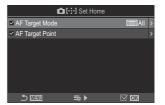
PASMB A

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

Menu

- MENU → AF → 6. AF Target Settings & Operations → 🗖 🔛 Set Home
- **1.** Select a setting you wish to store with the home position and put a check (\checkmark) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (\checkmark) next to it.

To remove the check, press the **OK** button again.



AF Target Mode

Choose the home position AF target mode. Only options selected for P.119 are available.

AF Target Point

Choose the home position focus target position.

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

Using the [[:::]Home] function

In [Button Function] (P.330), assign [::] Home] to a button. The AF target moves to the saved home position when you press the button.

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

PASMB A

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

Menu

• MENU → AF → 6. AF Target Settings & Operations → [:::]Select Screen Settings

	Assign roles to the front and rear dials.
A arai	[Off]: None.
♀ dial	[-中 Pos]: Position the AF target (P.115).
	[[:::]Mode]: Choose the AF target mode (e.g., []]All, [•]Single) (P.116).
	Assign roles to $\triangle \nabla \triangleleft \triangleright$.
⇔ button	[Off]: None.
'→' button	[-中 Pos]: Position the AF target (P.115).
	[[-:-]Mode]: Choose the AF target mode (e.g., [===]AII, [•]Single) (P.116).

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

PASMB P

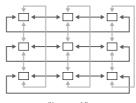
You can choose whether AF target selection "wraps around" the edges of the display. You can also choose whether you have the option of selecting [IIII] All (all targets) before AF target selection "wraps around" to the opposite border of the display.

Menu

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

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

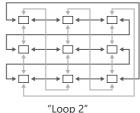
[Loop 1]: If you continue to press the $\wedge \nabla \triangleleft \triangleright$ buttons in the same direction after reaching the border of the display, the target in the same row or column on the opposite border will be selected.



"Loop 1"

Loop Selection

[Loop 2]: If you continue to press the $\triangle \nabla \triangleleft \triangleright$ buttons in the same direction after reaching the border of the display, the target in the next row or column on the opposite border will be selected.



Via [IIIII]AII

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

[Yes]: If [Loop 1] or [Loop 2] is chosen for [[:::] Loop Selection], target selection will pass through [IIII] All (all targets) before wrapping around to the opposite border.

② Hiding [■■ All (all targets) in [□ AF Target Mode Settings] (P.119) fixes [Via [IIII] at [No].

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

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

PASMB A

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

Menu

• MENU → AF → 6. AF Target Settings & Operations → AF Targeting Pad

Off	Monitor touch controls cannot be used for AF target selection during viewfinder photography.
On	Monitor touch controls can be used for AF target selection during viewfinder photography. Gently tap the monitor twice to enable or disable touch AF target selection. When the target reaches the edge of the display and you lift and glide your finger again, the AF target moves to the other side or becomes [IIII] All (all target) mode depending on the [[-:-] Loop Selection] (P.150) setting.

& When [On] is selected, touch controls can also be used to position the zoom frame (P.121).

Other functions that are useful when focusing

Manual Focus Assist (MF Assist)

PASMB #

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

Menu • MENU → AF → 7. MF → MF Assist

Magnify	Magnifies a portion of the screen. [Off]: Normal display. [On]: Magnifies a portion of the screen. The portion to be magnified can be set in advance using AF target. Choosing a Focus Target (AF Target Point)" (P.115)
Peaking	Displays clearly defined outlines with edge enhancement. [Off]: Normal display. [On]: Displays clearly defined outlines with edge enhancement. You can select the enhancement color and intensity. Focus Peaking Options (Peaking Settings)" (P.155)
Focus Indicator	Rotating the focus ring during manual focus displays an indicator showing the direction and approximate amount of rotation required to bring the subject into focus. [Off]: Normal display. [On]: Rotating the focus ring during manual focus displays an indicator showing the direction and approximate amount of rotation required to bring the subject into focus.

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

- (?) Focus zoom is not available in the following instances:
 - During movie recording / when **[C-AFME]** or **[C-AF+TRME]** is selected for focus mode / during a multiple exposure / when **[\text{\text{\text{\text{P} Digital Tele-converter}}}** is set to **[On]**
- When using third-party lenses with focus clutch mechanism, the direction of focus and the display of Focus Indicator may be reversed. If this happens, change the setting of [Focus Ring] (P.159).
- Procus Indicator cannot be displayed when using a Four Thirds system lens.
- & Press the INFO button to change the color and intensity when peaking is displayed.

Focus Peaking Options (Peaking Settings)

PASMB PA

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

Button

• A button to which [Peaking] has been assigned → INFO button

Menu

• MENU → AF → 7. MF → Peaking Settings

Peaking Color	Choose the focus peaking color. [White] / [Black] / [Red] / [Yellow]
Highlight Intensity	Choose the focus peaking level. [Low] / [Normal] / [High]
Image Brightness Adj.	Adjust background brightness to make focus peaking easier to see. [Off]: Normal display. [On]: Adjusts background brightness.

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

Using Focus Peaking

The following options are available for using focus peaking.

- Assigning [Peaking] to a control using [Button Function] or [Button Function]:

 Focus peaking can be assigned to a control by selecting [Peaking] for [Button Function] (P.330) or [Button Function] (P.330). Pressing the button enables focus peaking. [Peaking] can also be selected for [Multi Function] (P.339).
- Using [Peaking] for [MF Assist]:
 If [Peaking] is selected for [MF Assist], focus peaking will activate automatically when the lens focus ring is rotated.

& Press the INFO button to view peaking options.

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

PASMB A

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

Menu

- MENU → AF → 7. MF → Preset MF distance
- (1) If the lens is equipped with a focus limiter, disable it before proceeding.
- The figures displayed are intended as guides only.

Disabling the MF Clutch (MF Clutch)

PASMB A

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

<u>Menu</u>	
• MENU → AF → 7. MF → MF Clutch	

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

- Manual focus using the lens focus ring is not available when [Inoperative] is selected for [MF Clutch], even if the lens focus ring is in the manual focus position.
- MF Clutch is available with Micro Four Thirds lenses made by OM Digital Solutions or OLYMPUS. For details about lenses equipped with MF clutch, see "MF Clutch Lenses" (P.441).

Lens Focus Direction (Focus Ring)

PASMB PA

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

Menu

• MENU → AF → 7. MF → Focus Ring

- Rotate the ring counterclockwise to increase the focus distance.
- Rotate the ring clockwise to increase the focus distance.

Resetting the Lens Position at Shutdown (Reset Lens)

PASMB A

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

Menu

• MENU → AF → 7. MF → Reset Lens

Off	The lens focus position is not reset when the camera is turned off. Power zoom lenses also return to the zoom position they were in before the camera was turned off.
On	The lens focus position is reset when the camera is turned off.

Metering and Exposure

Controlling exposure (Exposure Compensation)

PASMB

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

Button

- When a shooting mode other than M is selected in still photography mode: Button to which [☑]
 (exposure compensation) is assigned → ◁▷♠
- When **M** is selected for the shooting mode in still photography mode: Rotate the front or rear dial while pressing the button to which [2] (exposure compensation) is assigned.
- When a [♠ Mode] (movie exposure mode) other than [M] is selected in movie mode: CP button

 → ◁▷ ♠ ❖
- When **[M]** is selected for **[Mode]** (movie exposure mode) in movie mode: Rotate the front or rear dial while pressing the **CP** button.

Super control panel

• **OK →** Exposure Comp.



- 1) Negative (–)
- 2 No compensation (0)
- ③ Positive (+)

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



- 1) Exposure bar
- (2) Exposure compensation value

Adjusting Exposure Compensation

Modes P, A, S, and ART

In movie mode, exposure compensation is available when **[P]**, **[A]**, or **[S]** is selected for **[Mode]** (movie exposure mode) (P.91).

- **1.** Rotate the front dial to adjust exposure compensation.
- 2. Release the shutter.

Mode M

In still photography mode, select **[P/A/S/M]** for **[OISO-Auto]** (P.180) and **[Auto]** for **[OISO]** (P.175).

In movie mode, exposure compensation is available when **[M]** is selected for **[\$\tilde{\mathbb{M}}\$ Mode]** (movie exposure mode) (P.91). You must first select **[On]** for **[\$\tilde{\mathbb{M}}\$ MISO-Auto]** (P.180) and **[Auto]** for **[\$\tilde{\mathbb{M}}\$ ISO]** (P.175).

- 1. Press the button to which [2] (exposure compensation) is assigned and then rotate the front dial or rear dial to adjust exposure compensation.
- 2. Release the shutter.

Resetting	Exposure	Compen	sation	
To reset exposure o	compensation, press	and hold the OK	button.	

EV Steps for Exposure Control (EV Step)

PASMB A

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

Menu

• MENU → □1 → 4. Exposure → EV Step

Fine-Tuning Exposure (Exposure Shift)

PASMB PA

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

- Tine-tuning is not normally required. Use only as necessary. In normal circumstances, exposure can be adjusted using exposure compensation (P.161).
- Fine-tuning exposure reduces the amount of exposure compensation available in the direction (+ or -) exposure was fine-tuned.

<u>Menu</u>	
• MENU → □ ₁ → 4. Exposure → Exposure Shift	

(digital ESP metering)	Set the fine-tuning amount for when the metering method is A. $[-1] - [\pm 0] - [+1]$
(center-weighted averaging)	Set the fine-tuning amount for when the metering method is B. $[-1] - [\pm 0] - [+1]$
• (spot metering)	Set the fine-tuning amount for when the metering method is C. $[-1] - [\pm 0] - [+1]$

Reducing Flicker Under LED Lighting (Flicker Scan / Flicker Scan)

PASMB

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

- ② ■: This item can be used in silent mode and with Pro Capture shooting while using S or M shooting mode.
 - \(\overline{A}\): This item can be used when [\(\overline{A}\) Mode] (movie exposure mode) is [S] or [M].
- (?) The range of available shutter speeds is reduced.

Menu

- MENU → □1 → 4. Exposure → □ Flicker Scan
- MENU → 🏻 → 1. Basic Settings/Image Quality → 🛱 Flicker Scan
- When set to [On], "FlickerScan" will be displayed.



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

Choosing the Shutter Speed

- Choose a shutter speed using the front or rear dial or the $\Delta \nabla$ buttons. If desired, the shutter speed can be selected by keeping $\Delta \nabla$ pressed.
- You can also rotate the front dial to adjust shutter speed in the exposure increments selected for **[EV Step]** (P.164).
- Continue adjusting shutter speed until banding is no longer visible in the display.
- Magnifying the display (P.121) makes it easier to check for banding.
- Press the INFO button; the display will change and the "FlickerScan" will no longer be displayed. You
 can adjust aperture and exposure compensation. Do so using the front or rear dial or the arrow pad.
- Press the INFO button repeatedly to return to the flicker scan display.

Choosing how the camera measures brightness (Metering)

PASMB P



You can choose how the camera meters subject brightness.

Super control panel

• **OK** → Metering

Menu

• **MENU** \Rightarrow \square_1 \Rightarrow 5. Metering \Rightarrow Metering

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

[&]amp; The spot metering position can be set at the selected AF target. R "Metering the Focus Target" ([:::]Spot Metering)" (P.174)

Locking the exposure (AE Lock)

PASMB

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

Button

- Still photography mode: The button to which the **[AEL]** function is assigned in **[Delta Button Function]**
- Movie mode: The button to which the **[AEL]** function is assigned in **[ABB Button Function]**
- ② You need to assign [AEL] (P.332) to a button in advance using [○ Button Function] (P.330) in still photography mode and [○ Button Function] (P.330) in movie mode.
- If you press the AEL button once, the exposure is locked and "AEL" is displayed.
- Press the button once again to release the AE Lock.
- The lock will be released if you operate the mode dial, **MENU** button, or **OK** button.

AE Lock Exposure Metering (Metering during AEL)

PASMB A

Choose the metering method used to meter exposure when exposure is locked using the button to which the [AEL] (P.332) function is assigned in [Button Function] (P.330).

Menu

- MENU → □1 → 5. Metering → Metering during Æ
- For more information on AE lock, see "Locking the exposure (AE Lock)" (P.169).

Auto	Exposure is metered using the method selected for [Metering] (P.168).
(center-weighted averaging)	The camera sets exposure based on the average light level for the entire frame while assigning the greatest weight to the area in the center.
• (spot metering)	The camera meters a small portion (approximately 2%) of the frame.
• Hi (spot highlight metering)	Increases spot metering exposure. Ensures bright subjects appear bright.
Sh (spot shadow metering)	Lowers spot metering exposure. Ensures dark subjects appear dark.



Releasing AE Lock after shooting (Auto Reset)

PASMB A

Configure the camera so that it automatically releases the lock after shooting when exposure is locked using the button to which the [AEL] (P.332) function is assigned in [Button Function] (P.330).

Menu

• MENU → □1 → 5. Metering → Æ Auto Reset

No	Exposure remains locked after shooting. Press the button to which [AEL] is assigned to release the lock.
Yes	Exposure lock is released after shooting.

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

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

PASMB P



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

Menu	
• MENU → □1 → 5. Metering → AEL by half-pressing =	

No	Exposure is not locked when the shutter button is pressed halfway. Exposure is determined based on the shooting conditions when the shutter button is pressed fully.
Yes	Exposure is locked when the shutter button is pressed halfway.
S-AF Only	Exposure is locked when the shutter button is pressed halfway only when the AF mode is [S-AF] , [S-AFME] , [XAF] or [XAFME] .

- (2) If exposure is locked by pressing the button to which the [AEL] (P.332) function is assigned in [Button Function] (P.330), it remains locked when you press the shutter button halfway regardless of this setting.
- j-If you configure the camera so that it does not lock exposure when the shutter button is pressed halfway, you can choose whether the camera meters brightness for each frame during sequential shooting. Setting metering options for sequential shooting (Metering during)" (P.173)

Setting metering options for sequential shooting (Metering during)



Manu
Menu • MENU → □1 → 5. Metering → Metering during □

No	The camera meters exposure when capturing the first frame and exposure is locked during sequential shooting.
Yes	The camera meters brightness and determines exposure for each frame.

② If exposure is locked by pressing the button to which the [AEL] (P.332) function is assigned in [○ Button Function] (P.330) (P.169) or pressing the shutter button halfway (P.172), exposure remains locked during sequential shooting even when [Metering during □] is set to [Yes].

Output

**The property of the pr

Metering the Focus Target ([:::]Spot **Metering**)

PASMB P



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

Menu • MENU → □1 → 5. Metering → [:::]Spot Metering

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

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

- ② The selected option takes effect when [] Single-S or [] Single is selected as the AF target mode (P.116).
- (?) The camera zooms in on the selected AF target during focus zoom (P.121).
- (1) Not applied when a setting other than [Off] is selected for [Face & Eye Detection].
- ② Not applied when [C-AF+TR] or [C-AF+TR MF] is selected for AF Mode.

Changing ISO sensitivity (ISO)

PASMB

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

Button

• ISO button → 🥿 🐸

Super control panel

· OK → DISO/PISO

	Sensitivity is adjusted automatically according to shooting conditions. During still photography, you can choose the maximum and standard values for ISO sensitivity (P.178). You can change the shutter speed at which ISO sensitivity starts to rise in P and A modes (P.179).
Auto	During movie recording, ISO sensitivity will be set to values of from ISO 200 to 6400. Auto ISO sensitivity control can be set by selecting [On] for [MISO-Auto] when [M] is selected for [Mode] (movie exposure mode). You can also choose the upper limit and the default value for ISO sensitivity. Material "Setting the range of ISO sensitivity values selected in [Auto] mode (ISO-A Upper/Default / MISO-A Upper/Default)" (P.178)
L64, L100, 200– 25600 (still photography)	Choose a value for ISO sensitivity. In P , A , and S modes, [Auto] is recommended for scenes where the brightness changes frequently. ① [L64] and [L100] are available at all exposure step values. ② [L64] and [L100] reduce dynamic range.
200–6400 (movie recording)	Choose a value for ISO sensitivity. ISO 200 offers a good balance between noise and dynamic range.

- ② Combining [☐ ISO] values over ISO 8000 with settings that use an electronic shutter (for example, silent mode or focus bracketing) sets the flash sync speed to 1/20 s.
- Regardless of the value selected for ISO sensitivity, the flash sync speed for photos taken using ISO bracketing in silent mode is 1/20 s.

- When [
 Mode] (movie exposure mode) is set to [M], ISO sensitivity can be adjusted during recording using touch controls (P.94), rotating the front or rear dial (P.344), or using the buttons (P.330).
- ① If [Dramatic Tone] or [Watercolor] is chosen for picture mode in still photography mode, sensitivity will not exceed ISO 1600 when [Auto] is selected.
- (1) In movie mode, the following restrictions apply depending on the picture mode:
 - [OM-Log400], [OM-Cinema1], [OM-Cinema2]:
 - If the [Playback Frame Rate] selected for movie quality is 23.98p, 24.00p, 25.00p, or 29.97p, [Auto] is restricted to sensitivities of ISO 400–3200. However, if the [Sensor Frame Rate] is 50fps, 60fps, or 120fps, [Auto] is restricted to sensitivities of ISO 400–6400.
 - If the [Playback Frame Rate] selected for movie quality is 50.00p or 59.94p, [Auto] is restricted to sensitivities of ISO 400–6400.
 - The lowest value that can be selected manually is ISO 400.
 - [Dramatic Tone] / [Watercolor]:
 - [Auto] is restricted to sensitivities of ISO 200–1600.
 - Art filters other than [Dramatic Tone] / [Watercolor]:
 - If the **[Playback Frame Rate]** selected for movie quality is 23.98p, 24.00p, 25.00p, or 29.97p, **[Auto]** is restricted to sensitivities of ISO 200–3200.
 - If the [Playback Frame Rate] selected for movie quality is 50.00p or 59.94p, [Auto] is restricted to sensitivities of ISO 200–6400.

• Other picture modes:

- If the **[Playback Frame Rate]** selected for movie quality is 23.98p, 24.00p, 25.00p, or 29.97p, **[Auto]** is restricted to sensitivities of ISO 200–3200. However, if the **[Sensor Frame Rate]** is 50fps, 60fps, or 120fps, **[Auto]** is restricted to sensitivities of ISO 200–6400.

EV Steps for ISO Sensitivity Control (ISO Step)

PASMB A

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

Menu

• MENU → □1 → 3. ISO/Noise Reduction → ISO Step

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

PASMB

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

Menu • MENU → □1 → 3. ISO/Noise Reduction → □ISO-A Upper/Default • MENU → □ → 3. ISO/Noise Reduction → □MISO-A Upper/Default

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

- Switch between [Upper Limit] and [Default] using <□.
- The upper limit and the default settings differ during still photography and during movie recording. If the optimal exposure cannot be achieved under the aperture and shutter speed conditions, a lower sensitivity is applied.

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

PASMB A

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

<u>Menu</u>	
• MENU → □1 → 3. ISO/Noise Reduction → □ISO-A Lowest S/S	

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

Choosing the modes in which [Auto] can be used for ISO sensitivity (☐ISO-Auto / ☐MISO-Auto)

PASMB &

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

Menu

- MENU → □1 → 3. ISO/Noise Reduction → □ISO-Auto
- MENU → ⇔ → 3. ISO/Noise Reduction → ⇔MISO-Auto

ISO-Auto

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

[Auto] ISO sensitivity is available in ART, SCN, or modes.

MISO-Auto

Of	f	In movie mode, [Auto] cannot be used for ISO sensitivity when [M] is selected for [$ \overset{\frown}{\bowtie}$ Mode] (movie exposure mode).
0	า	In movie mode, [Auto] can be used for ISO sensitivity when [M] is selected for [Mode] (movie exposure mode).

High ISO Noise Reduction Options (☐ Noise Filter / ☐ Noise Filter)

PASMB

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

Menu	
• MENU → ♠1 → 3. ISO/Noise Reduction → ♠ Noise Filter	
• MENU → 🎛 → 3. ISO/Noise Reduction → 🎛 Noise Filter	

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

Image Processing Options (Low ISO Processing)

PASMB A



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

Menu

• MENU → □1 → 3. ISO/Noise Reduction → Low ISO Processing

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

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

Long Exposure Noise Reduction Options (Noise Reduction)

PASMB P



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

Menu

• MENU → □1 → 3. ISO/Noise Reduction → Noise Reduction

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

- (1) During noise reduction, the camera displays the time remaining until the process is complete.
- (1) During sequential shooting, [Off] is selected automatically and noise reduction is not performed.
- (?) Noise reduction may not produce the desired effects depending on the subject and shooting conditions.
- ☼ To use this function in silent mode, it is required that you configure the [Silent [♥] Settings] setting (P.207).

Flash photography

Using a flash (Flash photography)

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

Flash units designed for use with the camera

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

Radio-Controlled Flash Photography: CMD, & CMD, RCV, and X-RCV Modes

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

Wireless Remote-Control Flash Photography: RC Mode

The camera controls one or more remote flash units by means of optical signals. The flash mode can be selected using camera controls (P.195).

Features Available with Compatible Flash Units

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

¹ Maximum lens focal length at which the unit can provide flash coverage (figures following slashes are 35 mm format equivalent focal lengths).

Attaching Compatible Flash Units

The methods used to attach and operate external flash units vary with the unit. See the documentation provided with the unit for details. The instructions here apply to the FL-700WR.

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

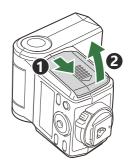
Inserting the battery (sold separately)

Use either of the following batteries.

- AA nickel-hydrogen batteries (4 pieces)
- AA alkaline batteries (4 pieces)
- (2) AA manganese batteries cannot be used.
- ② Do not use AA lithium batteries. When certain AA lithium batteries are used, they may occasionally become extremely hot.

² Functions as commander (transmitter) only.

1. Open the battery compartment cover.



- 2. Insert the batteries.
 - 1 Insert the batteries with the +/- facing the correct direction.

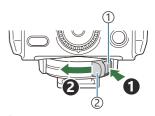


3. Close the battery compartment cover.



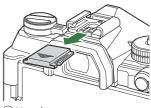
Attaching Compatible Flash Units

1. While pressing the lock release button of the flash (**1**), slide the lock lever in the direction of the arrow (**2**).

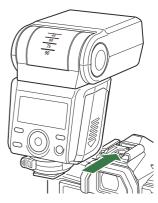


- 1) Lock release button
- (2)Lock lever

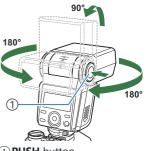
- **2.** Remove the hot shoe cover and attach the flash.
 - Slide the flash in until the foot clicks into place at the back of the shoe.



1) Hot shoe cover



- **3.** For bounce-flash photography, adjust the flash head position while pressing and holding the **PUSH** button on the flash.
 - The flash head can be rotated up and left or right.



1) PUSH button

4. Press the **ON/OFF** button on the flash to turn the power on.



• When the flash is not in use, press the **ON/OFF** button to turn it off.

Removing Flash Units

1. After performing step 1 of "Attaching Compatible Flash Units" (P.186), remove the flash from the hot shoe.

Choosing a Flash Mode

PASMB A



Super control panel

• **OK** → Flash Mode

Flash Modes

Flash modes that are displayed vary depending on the configuration of [Flash Mode Settings] (P.193).

4	Fill In	Enable the flash. ② Shutter speed can be set to values between that selected for [\$ Slow Limit] (P.197) and [\$ X-Sync.] (P.196).
③	Flash Off	Disable the flash. The flash will not fire even if the unit is on.
 \$Slow	Slow	Slow shutter speeds are used to capture both the main subject and the background. ① Shutter speed is set according to the exposure value metered by the camera and is not restricted by the option selected for [\$ Slow Limit].
‡ Manual	Manual	The flash fires at the selected level. This option appears only when the STF-8 is attached.

Flash Modes and Setting Combinations

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

Flash Mode: Fill In

This setting is available only in P, A, S, M, or B modes.

[Reduce Red-eye]	[Synchro Settings] ¹	Super control panel display	Reduce Red- eye	Flash timing
[No]	[First Curtain]	\$	No	Front-curtain sync
	[Second Curtain]	\$ 2		Rear-curtain sync ²
[Yes]	[First Curtain]	5 ®	Yes	Front-curtain sync
	[Second Curtain]	\$ *2		Rear-curtain sync ²

- 1 The red-eye reduction flash is set in [Reduce Red-eye] and the flash timing is set in [Synchro Settings]. [Settings] [Flash Mode Settings] (P.193)
- 2 Even if [Second Curtain] is selected for [Synchro Settings], if [Live Comp] (P.69) is set in **B** mode, the flash will fire in first-curtain sync.

Flash Mode: Slow

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

[Reduce Red- eye] ¹	[Synchro Settings] ¹	Super control panel display	Reduce Red- eye	Flash timing
[No]	[First Curtain]	\$ Slow	No	Front-curtain sync
	[Second Curtain]	\$ Slow2		Rear-curtain sync
[Yes]	[First Curtain]	\$ ● Slow	Yes	Front-curtain sync
	[Second Curtain]	\$ Slow2		Rear-curtain sync

¹ The red-eye reduction flash is set in [Reduce Red-eye] and the flash timing is set in [Synchro Settings]. [Flash Mode Settings] (P.193)

Flash Mode: Manual

This option appears only when the STF-8 is attached. This setting is available only in **P**, **A**, **S**, **M**, or **B** modes.

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

The range of available shutter speeds is 60 s to 1/250 s. The range of available shutter speeds can be further restricted using the options in the menu.

 [★ X-Sync.] (P.196), [★ Slow Limit] (P.197)

[§] You can select the amount of flash output by selecting [

§ Manual] with the □ ৩ button and pressing the INFO button, or by selecting [Manual Value] from the super control panel.

- ① In red-eye reduction mode, the shutter will be released approximately one second after the initial red-eye reduction pre-flash. Do not move the camera until shooting is complete. Also note that red-eye reduction may not produce the desired results in some conditions.
- The fastest shutter speed available when the flash fires is 1/250 s. Bright backgrounds in pictures taken with the flash may be overexposed.
- The flash sync speed for silent modes (P.207), High Res Shot (P.245), and focus bracketing (P.280) is 1/50 s. Furthermore, combining [□ ISO] values over ISO 8000 with settings that use an electronic shutter (for example, silent mode or focus bracket shooting) sets the flash sync speed to 1/20 s. The flash sync speed is also set to 1/20 s during ISO bracketing (P.277).
- ② Even the minimum available flash output may be too bright at short range. To prevent overexposure in pictures taken at short range, select mode A or M and choose a smaller aperture (higher f-number) or choose a lower setting for [□ ISO].

Configuring flash modes (Flash Mode Settings)

PASMB A



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

Menu

• MENU → □1 → 6. Flash → Flash Mode Settings

Reduce Red- eye	Reduce "red-eye" in portrait photos. [No]: The camera does not display Reduce Red-eye modes. [Yes]: The camera displays Reduce Red-eye modes.
Synchro Settings	Choose when the flash fires. [First Curtain]: The flash fires when the shutter is fully open. [Second Curtain]: The flash fires immediately before the shutter closes. Moving objects appear to leave trails of light behind them.

Adjusting flash output (Flash Exposure Comp.)

PASMB A

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

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

Super control panel

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

Wireless Remote Flash Control (RC Mode)

PASMB A

Adjust settings for wireless remote flash control. Remote control is available with optional flash units that support wireless remote control ("wireless RC flash"). For information on using wireless remote flash control, see "Wireless remote control flash photography" (P.445).

<u>Menu</u>

• MENU → □1 → 6. Flash → \$ RC Mode

Off	Wireless remote flash control disabled.
On	Wireless remote flash control enabled. The camera displays settings for wireless remote flash control.

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

Choosing a Flash Sync Speed (★ X-Sync.)

PASMB A

Choose the fastest shutter speed available for flash photography.

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

Menu

• MENU \Rightarrow $\Omega_1 \Rightarrow$ 6. Flash \Rightarrow \$ X-Sync.

Choosing the Minimum Shutter Speed (\$ Slow Limit)

PASMB A

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

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

② It does not take effect in slow-sync (\$\$Slow, \$\$Slow2, \$\$\$Slow2, \$\$\$\$Slow2, and \$\$\$\$\$Slow2) modes.

Menu

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

PASMB A

Choose whether exposure compensation is added to the value for flash compensation. For more information on flash compensation, see "Adjusting flash output (Flash Exposure Comp.)" (P.194).

Menu	
• MENU → □1 → 6. Flash → □ + □	

Off	Flash and exposure compensation are set independently.
On	The value for exposure compensation is added to the value for flash compensation.

Sequential Shooting/Self-Timer

Performing the sequential/self-timer shooting

PASMB A

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

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

Button • □ ॐ button → ※ ※	
Super control panel OK → Drive (□/☉)	
Menu • MENU → □1 → 7. Drive Mode → Drive □/③	

□/ † □	Single	Single-frame advance. The camera takes one photo each time the shutter button is pressed all the way down.
□,/+□,	Sequential	The camera takes photos at up to about 6 fps while the shutter button is held all the way down. If [C-AF], [C-AF LE], [C-AF+TR], or [C-AF+TR LE] is selected for [AF Mode] (P.110), the camera will focus before each shot. When [Metering during Legal (P.173) is set to [Yes], the camera will meter the brightness and determines the exposure before each shot.
* □	Silent Sequential	The camera takes photos at up to about 10 fps while the shutter button is held all the way down. If [C-AF], [C-AF, [C-AF, [C-AF+TR]], [C-AF+TR]] is selected for [AF Mode] (P.110), the camera will focus before each shot. When [Metering during []] (P.173) is set to [Yes], the camera will meter the brightness and determines the exposure before each shot.

♥□H	Silent Sequential H	The camera takes photos at up to about 30 fps while the shutter button is held all the way down. Focus, exposure, and white balance are locked at the values for the first shot in each series.	
ProCap ProCapH	Pro Capture	Capture starts when the shutter button is pressed halfway. The camera starts recording pictures, including those captured wh the button was pressed halfway, when the button is pressed a the way down (P.209). Focus and exposure during each ProCap mode are the same as [*[]] (Silent Sequential) and [*[]H]	
ర12s/ీ•్ర12s *ర12s	Self-timer 12 sec	The shutter is released 12 seconds after the shutter button is pressed all the way down. The self-timer lamp will light for about 10 seconds and then start to flash about 2 seconds before the shutter is released. The camera focuses when the shutter button is pressed halfway.	
[©] 2s/ీ©2s ీ©2s	Self-timer 2 sec	When the shutter button is pressed all the way down, the self-timer lamp will start to flash and a photo will be taken after about 2 seconds. The camera focuses when the shutter button is pressed halfway.	
కుండి కుండు	Custom Self- timer	Adjust self-timer settings, including the self-timer delay and the number of shots taken when the timer expires (P.204).	

[&]amp;-To cancel the activated self-timer, press ∇ .

^(?) In ProCap mode, the lower limit of the shutter speed is 1/10 s.

① In ProCapH mode, the lower limit of the shutter speed is 1/30 s when [Max fps] in [Sequential Shooting Settings] is set to [30fps], 1/20 s when set to [20fps], and 1/15 s when set to [15fps].

② Shooting speed will be lower when [ISO] is 8000 or higher.

② In silent photography, the flash sync speed is 1/50 s. It is set to 1/20 s when [ISO] is 8000 or higher.

- ① If you stand in front of the camera to press the shutter button when using the self-timer, the picture may be out of focus.
- The speed of sequential shooting varies depending on the lens you are using and the focus of the zoom lens.
- ② During sequential shooting, if the battery level icon blinks due to low battery, the camera stops shooting. The camera may not save all of the pictures depending on how much battery power remains.
- Photographs taken in silent and Pro Capture modes may be distorted if the subject or camera moves quickly during shooting.
- ② To use the flash in silent shooting modes, select [Allow] for [Flash Mode] in [Silent [♥] Settings] (P.207).

Configuring the sequential shooting functions (Sequential Shooting Settings)

PASMB A

You can choose which types of sequential shooting modes are displayed when you press the 🖳 🕉 button, and the maximum speed/number of frames for each sequential shooting mode.

Menu

- MENU → □1 → 7. Drive Mode → Sequential Shooting Settings
- **1.** Select a sequential shooting mode that you want to have displayed, and put a check (✓) next to it.
 - Select an option using △∇ and press the OK button to put a check (✓) next to it.
 To remove the check, press the OK button again.



Sequential Shooting Settings screen

- [♦□] is displayed when [Anti-Shock [♦]] is set to [On] in [Anti-Shock [♦] Settings]
 (P.206).
- **2.** Press ▷.
- 3. Configure options.

Pre-shutter Frames (ProCap/ProCapH only)	Set the number of frames to be captured before the shutter button is pressed fully from between 0 and 14.
Frame Count Limiter	 Set the total number of frames from 2 to 99 (including the pre-shutter frames) to be captured. You can limit the number of frames that are captured after you press the shutter button fully. Shooting stops automatically when the limit is reached. Select [Off] if you do not want to put a limit on the number of frames. To put a limit on the number of frames, select the number and press the OK button. The setting screen appears. You can change the number with △∇. For Pro Capture shooting, the number of frames includes the pre-shutter frames. "Shooting without a release time lag (Pro Capture shooting)" (P.209)

- The frame advance rate for [ProCap] is fixed at 10 fps.
- When [HDR], [Focus Stacking] or [Focus BKT] is enabled, [Frame Count Limiter] will be [Off].

Configuring the self-timer functions (Self-timer Settings)

PASMB A

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

Menu

- MENU → □1 → 7. Drive Mode → Self-timer Settings
- **1.** Select a self-timer mode that you want to have displayed, and put a check (\checkmark) next to it.
 - Select an option using △∇ and press the OK button to put a check (✓) next to it.
 To remove the check, press the OK button again.



- | *\delta 12s|, [*\delta 2s], and [*\delta C] is displayed when [Anti-Shock [*]] is set to [On] in [Anti-Shock [*] Settings] (P.206).

 | *\delta 2s|, [*\delta 2s], and [*\delta C] is displayed when [Anti-Shock [*]] is set to [On] in [Anti-Shock [*]].

 | *\delta 2s|, [*\delta 2s], and [*\delta 2s].
 | *\delta 2s|, and [*\del
- **2.** When setting Custom Self-timer, select [ŮC] / [♣ŮC] / [♣ŮC] (Custom Self-timer) and press ▷.
- **3.** Configure options.

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

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

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

PASMB P

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

• MENU → □1 → 7. Drive Mode → Anti-Shock [•] Settings

[30sec]

Menu

Anti-Shock [♦]	[Off] : Anti-shock shooting modes ([♦□], [♦□], etc.) are not displayed on the drive mode selection screen. Normal shooting modes ([□], [□], etc.) are displayed.
Anti-Snock [▼]	[On]: Anti-shock shooting modes ([•], [•], etc.) are displayed on the drive mode selection screen. Normal shooting modes ([], [], etc.) are not displayed.
Waiting Time	Choose how long the camera waits to begin shooting after the shutter button is pressed all the way down when shooting in anti-shock shooting modes. [0sec], [1/8sec], [1/4sec], [1/2sec], [1sec], [2sec], [4sec], [8sec], [15sec],

- Settings] (P.202).
- Select a mode with ◆ (P.199), press the OK button, then take pictures. After the specified time elapses, the shutter will be released and pictures will be taken.

Shooting without shutter sound (Silent [♥] Settings)

PASMB A

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

Menu • MENU → □1 → 7. Drive Mode → Silent [♥] Settings

Waiting Time	Choose how long the camera waits to begin shooting after the shutter button is pressed all the way down when shooting in silent shooting modes. [0sec], [1/8sec], [1/4sec], [1/2sec], [1sec], [2sec], [4sec], [8sec], [15sec], [30sec]
Noise Reduction	[Off]: Shoots normally. [Auto]: Reduces image "noise" in long exposures during silent photography. The sound of the shutter may be audible when noise reduction is active.
■)))	Choose whether to allow the [)] (P.389) to sound as specified.
AF Illuminator	Choose whether to allow [AF Illuminator] (P.143) to work as specified.
Flash Mode	Choose whether the flash works as specified.

(P) During High Res Shot shooting (P.245), (P.345), (P.34

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

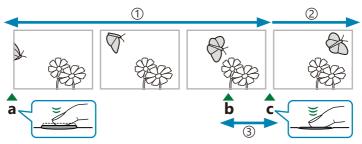
- Be sure there is a check (✓) next to a sequential shooting mode with ♥ in [Sequential Shooting Settings] (P.202).
- Select a mode with ♥ (P.199), press the OK button, then take pictures. The monitor turns dark for a short while when the shutter is released. The shutter does not sound.
- The desired results may not be achieved under flickering light sources such as fluorescent or LED lamps or if the subject moves abruptly during shooting.
- The fastest available shutter speed is 1/32000 s.

The flash sync speed is 1/50 s. It is set to 1/20 s when [ISO] is 8000 or higher.	

Shooting without a release time lag (Pro Capture shooting)

PASMB A

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



- (1)Up to 14 frames
- (2) Burst shooting continues
- (3) Shutter lag

- a Shutter button pressed halfway
- **b** Moment you want
- **c** Shutter button pressed all the way down

Pro Capture (ProCap)

Choose this option if you anticipate that the distance to the subject will change during shooting. The camera shoots at 10 fps. A maximum of 14 frames can be captured before the shutter button is pressed all the way down. If **[C-AF]**, **[C-AF ME]**, **[C-AF+TR]**, or **[C-AF+TR ME]** is selected for **[OAF Mode]** (P.110), the camera will focus before each shot.

- (1) In [ProCap] mode, the lower limit of the shutter speed is 1/10 s.
- (1) In [ProCap], the aperture range is limited between maximum aperture and F8.0.
- [ProCap] cannot be used with Four Thirds system lenses or Micro Four Thirds system lenses from other manufacturers.

Pro Capture H (ProCapH)

Choose this option if the distance to the subject is unlikely to change very much during shooting. The camera shoots at up to 30 fps. A maximum of 14 frames can be captured before the shutter button is pressed all the way down. The camera will use [S-AF] when [C-AF] or [C-AF+TR] is selected for [C-AF Mode] (P.110) and [S-AF ME] when [C-AF ME] or [C-AF+TR ME] is selected.

① In [ProCapH] mode, the lower limit of the shutter speed is 1/30 s when [Max fps] under [Sequential Shooting Settings] is set to [30fps], 1/20 s when it is set to [20fps], and 1/15 s when it is set to [15fps].

Button

• 🖳 🖒 button 🔿 🕿 🐸

Super control panel

• **OK →** Drive (□/ⓒ)

Menu

- MENU $\Rightarrow \Box_1 \Rightarrow$ 7. Drive Mode \Rightarrow Drive $\Box_1 \circ$
- **1.** Select Pro Capture (ProCap)/Pro Capture H (ProCapH) and press the **OK** button.
- **2.** Press the shutter button halfway to start capturing.
 - When the shutter button is pressed halfway, a capture icon
 (
) will be displayed. If the button is kept pressed halfway
 for over a minute, capture will end and the
 icon will clear
 from the display. Press the shutter button halfway again to
 resume shooting.
- 250 ±56 ; 00 2200
- Shooting will continue while the shutter button is pressed all the way down, up to the number of shots selected for **[Frame Count Limiter]**.
- [Max fps] (Pro Capture H (ProCapH) only), [Pre-shutter Frames], and [Frame Count Limiter] can be adjusted in [Sequential Shooting Settings] (P.202).
- **3.** Press the shutter button all the way down to start saving pictures to the memory card.
- (?) Pro Capture is not available while the camera is connected to a smartphone (Wi-Fi).
- Plickering occurred by fluorescent lights or the large movement of the subject, etc. may cause distortions in images.

${m extit{D}}$ During capture, the monitor will not go dark and the sound of the shutter will not be heard. ${m extit{D}}$ The slowest shutter speed is limited.		
	Shooting without a ralease time lag (Pro Cantur	

Reducing Flicker in Photographs (Anti-Flicker **Shooting**)

PASMB 🖴



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

Menu

- MENU → □1 → 7. Drive Mode → Anti-Flicker Shooting
- "FLK" appears in the display when you select [On].



- (2) This option does not take effect in modes that use the electronic shutter, including silent modes, High Res Shot, and Pro Capture modes.
- (1) The camera may be unable to detect flicker at some settings. Normal release timing will be used if flicker is not detected.
- (?) Normal release timing is used at slow shutter speeds.
- (?) Enabling flicker reduction may cause release lag, slowing the frame advance rate during burst photography.

Image Stabilization

Reducing camera shake (Image Stabilizer / Image Stabilizer)

PASMB A

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

Super control panel

• OK → Image Stabilizer / 🎛 Image Stabilizer

Menu

- MENU → □1 → 8. Image Stabilizer → □ Image Stabilizer
- MENU → 🏵 → 4. Image Stabilizer → 🎛 Image Stabilizer

Image Stabilizer

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

⊞ Image Stabilizer

	M-IS Off (Movie-I.S. Off)	Image stabilizer is off.
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M-IS1 (All Direction Shake I.S.)	Electronic image stabilization combined with VCM-controlled image sensor movement.
M-IS2 (All Direction Shake I.S.)	VCM-controlled image sensor movement only. Electronic image stabilization is not performed.

Setting the detailed option of image stabilizer

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

Press the INFO button while configuring [☐ Image
 Stabilizer] or [☐ Image Stabilizer]. Input the focal length using △ ▽ △ ▷ and then press the OK button.



Focal Length

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

[0.1] – [1000.0] mm

- ① Image stabilization may be unable to compensate for excessive camera motion or very slow shutter speeds. Use a tripod in these cases.
- You may notice noise or vibration while image stabilization is in effect.
- The setting selected with the lens image stabilization switch, if any, takes priority over that selected with the camera.
 - This can be changed. Is "Image Stabilization for IS Lenses (Lens I.S. Priority)" (P.218)
- (P.218). (P.218).

Half-press image stabilization (— Image Stabilizer)

PASMB A

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

Menu	
• MENU → □1 → 8. Image Stabilizer → ■ Image Stabilizer	

On	Image stabilization is performed while the shutter button is pressed halfway.
Off	Image stabilization is not performed while the shutter button is pressed halfway.

Burst mode image stabilization (lmage Stabilizer)

PASMB A

Choose the type of image stabilization applied during burst shooting.

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

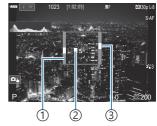
Menu
MENU → □1 → 8. Image Stabilizer → □ Image Stabilizer

IS Priority	Priority is given to image stabilization. The frame advance rate drops slightly.
Fps Priority	Priority is given to the frame advance rate. Image stabilization may be slightly less effective under some conditions.

Displaying camera motion on the monitor (Handheld Assist)

PASMB

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



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

Menu

• MENU → □1 → 8. Image Stabilizer → Handheld Assist

Off Camera motion is not displayed on the monitor.

On Camera motion is displayed on the monitor when the shutter button is pressed halfway and during exposure.

- There is no guarantee that the picture will be without blurs, even if the camera motion indicator stays within the gray frame.
- Camera motion cannot be displayed correctly when the camera is close to the subject.
- ② Camera motion is not displayed if [Image Stabilizer] is set to [S-IS Off] or if you are using third-party lenses, with which only the lens image stabilizer operates.
- ② This function is not available if [☐ Image Stabilizer] is set to [S-IS2] or [S-IS3].
- ①If [Image Stabilizer] is set to [Off], camera motion is only displayed during exposure.

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

PASMB A

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

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

<u>Menu</u>	
• MENU → 🗖 → 8. Image Stabilizer → Lens I.S. Priority	

On	Priority is given to lens image stabilization.
Off	Priority is given to camera image stabilization.

Color and Quality

Setting the Quality of Photos and Movies



PASMB PA

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

Super control panel

• OK **→ 🖸** ./≌ .

Menu

- MENU → □1 → 1. Basic Settings/Image Quality → □ €:-
- MENU → 🎛 → 1. Basic Settings/Image Quality → 🛱 🐠

Configuring △

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

[&]amp; The image size/compression combinations available can be selected in the menus.

"Combinations of JPEG image sizes and compression rates (Detailed Settings)" (P.224)

- & The options available during high resolution shooting (P.245) are ∰ F, 125 F, 150 F+RAW, and 150 F+RAW.
- Selecting High Res Shot (P.245) changes the image quality option selected; be sure to check the image quality setting before shooting.
- & RAW files store raw image data in an unprocessed state. Choose this format (extension ".ORF") for pictures that will later be enhanced.
 - Cannot be viewed on other cameras
 - Can be viewed on computers using OM Workspace Digital Photo Managing software
 - Can be saved in JPEG format using the [RAW Data Edit] (P.316) retouch option in the camera menus

Configuring **A** ◀

- A total of four movie quality modes, three for normal movies and one for slow- and fast-motion movies, can be stored and used as desired.
- An S&Q (slow and quick) icon is displayed on the movie quality mode for slow- and fast-motion movies.



1)S&Q (slow and quick) icon

Press > when a movie quality mode is selected to change its settings.

Movie quality for normal movies

Changed settings are reflected in the icons for the $\stackrel{\square}{\bowtie}$ movie quality mode. The icons vary as shown below. Up to three combinations can be saved.



- 1 Movie Resolution
- (2) Playback Frame Rate
- (3) Motion Compensation

Movie Resolution

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

Motion Compensation

I-8	A-I (ALL-Intra ¹)
L-8	L-GOP (LongGOP)

- 1 ALL-Intra is a movie recording format that does not use interframe compression. It is suitable for editing, but the data size will be large.
- Fixed to [L-GOP] when [Movie Resolution] is [4K] or [C4K].

Playback Frame Rate

60p ¹	59.94p	25p	25.00p
50p ¹	50.00p	24.00p ²	24.00p
30p	29.97p	24p	23.98p

1 Not available when:

[FHD] (Full HD) is selected for **[Movie Resolution]** and **[A-I]** is selected for **[Motion Compensation]**.

[C4K] or [4K] is selected for [Movie Resolution]

2 Available only when [Movie Resolution] is [C4K].

■ Movie quality for S&Q (slow and quick) movies

Changed settings are reflected in the icons for the movie quality mode. The icons vary as shown below.



- 1) Movie Resolution
- 2 Playback Frame Rate
- (3) Sensor Frame Rate
- (4) Motion Compensation (unchangeable)

Movie Resolution

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

Playback Frame Rate

60p	59.94p	25p	25.00p
50p	50.00p	24.00p ¹	24.00p
30p	29.97p	24p	23.98p

1 Available only when [Movie Resolution] is [C4K].

Sensor Frame Rate

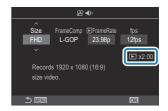
120 ¹	119.88 fps	12	11.99 fps
60 ¹	59.94 fps	8	7.99 fps
50 ¹	50.00 fps	6	5.99 fps
30 ¹	29.97 fps	3	2.997 fps
25	25.00 fps	2	1.998 fps
24	23.98 fps	1	0.999 fps
15	14.99 fps		

- 1 Available only when [Movie Resolution] is [FHD].
- The available sensor frame rates vary with the playback frame rate setting.

Motion Compensation

L-8 L-GOP (LongGOP)

- Pixed to [L-GOP] with S&Q (slow and quick) movies.



- & When the sensor frame rate is set to 120 fps, movies are filmed at 120 fps and played back at 23.98 59.94 fps. Stretching playback to 2x 5x the recording time lets you view in slow motion movements that in real life took only the blink of an eye.
- Sound is not recorded.
- The movie quality will change to the normal movie mode during remote photography when connected to a smartphone via Wi-Fi.
- Only shutter speeds of 1/24 s or faster are available. Availability depends on the sensor frame rate setting.
- A shutter speed slower than 1/24 s can be set by lowering the sensor frame rate value when [M] is selected for [Mode] (movie exposure mode) and [MF] or [Pre] selected for [AF Mode], but the response of camera buttons may also become slower.
- ② Depending on the card used, recording may end before the maximum length is reached.
- Movies are recorded at an aspect ratio of 16:9. C4K movies are recorded at an aspect ratio of 17:9.
- [Pe-Portrait] and art filter picture modes (P.227) are not available.

Restrictions when the sensor frame rate is 120 fps

- When an SD/SDHC card is used, the size of one file is limited to 4 GB. When an SDXC card is used, recording stops before the playback time reaches two hours.
- Pocus, metering, and white balance lock during recording.
- (1) The picture angle is slightly reduced.
- ② Aperture, shutter speed, exposure compensation, and ISO sensitivity cannot be changed during recording.
- Time codes cannot be recorded or displayed.
- (1) Brightness may change if zoom is adjusted during recording.
- (1) The sensor frame rate cannot be set to 120 fps when the camera is connected to a device via HDMI.
- All (all targets) cannot be selected for AF target mode.
- ② [☐ Image Stabilizer] (P.213) > [M-IS1] is not available.
- (?) Picture Mode (P.227) > [i-Enhance] is not available.
- ② [OM-Cinema1] and [OM-Cinema2] in △ Picture Mode (P.233) are not available.
- (?) [Gradation] (P.230) is fixed at [Gradation Normal].
- [Face & Eye Detection] (P.130) is disabled during recording.
- ② [C-AF] and [C-AF+TR] in [AF Mode] (P.110) are not available.
- (P.261) will be set to [Off].

PASMB A

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

Menu

• MENU → □1 → 1. Basic Settings/Image Quality → □ ← Detailed Settings

lmage size (Pixel count)	Compression ratio		n ratio	
	Super Fine	Fine	Normal	Application
Large (5184×3888)	■ SF	□ F	■N	
Middle (3200×2400)	M1 SF	M1 F	M1 N	Select for the print size
Middle (1920×1440)	M2 SF	M2 F	M2 N	
Small (1280×960)	S1 SF	S1 F	S1 _N	For small prints and use on a website
Small (1024×768)	S2 SF	S2 F	S2 N	Tot small prints and use on a website

Setting the image aspect (Image Aspect)

PASMB P



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

Super control panel

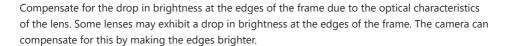
OK → Aspect

Menu

- MENU → □₁ → 1. Basic Settings/Image Quality → Image Aspect
- JPEG images are recorded at the selected aspect ratio. RAW images are the same size as the image sensor and are recorded at an aspect ratio of [4:3] with a tag indicating the aspect ratio selected. A crop indicating the selected aspect ratio is displayed when images are played back.

Peripheral illumination (Shading Comp.)

PASMB A



Menu

• MENU → □1 → 1. Basic Settings/Image Quality → Shading Comp.

Off	Shading compensation disabled.
On	The camera detects and compensates for reduced peripheral illumination.

- (1) [On] has no effect when a teleconverter or extension tube is attached.
- Noise may be more noticeable at the edges of the frame at high ISO sensitivities.

Processing options (Picture Mode / Picture Mode)

PASMB A

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

Super control panel

• OK → Picture mode

Menu

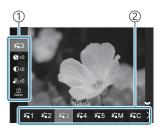
- MENU → □1 → 2. Picture Mode/WB → □ Picture Mode
- MENU → P → 2. Picture Mode/WB → Picture Mode

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

- [Picture Mode] (P.228) setting by selecting [Picture Mode] from the super control panel.
- [Pricture Mode] is set to [Same as] from the menu

Setting Picture Mode

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



Picture Mode setting screen

- 1)Item
- 2 Picture mode

祥 1	i-Enhance	The camera adjusts colors and contrast for optimal results according to the type of subject.
₹ *2	Vivid	Choose for vivid colors.
≈ 3	Natural	Choose for natural colors.
₹ 4	Muted	Choose for pictures that will later be retouched.
₹5	Portrait	Enhance skin tones.
ĕïM	Monochrome	Record pictures in monochrome. You can apply color filter effects and choose a tint.
≯ ` C	Custom	Adjust picture mode parameters to create a custom version of a selected picture mode.
	e-Portrait	Enhance the skin to make it brighter and smoother.
76	Underwater	Process pictures to preserve the vivid colors seen under water. We recommend choosing [Off] for [\$\frac{4}{2} + WB]\$ (P.242) when [\$\frac{1}{2} \times 1] is selected.
3	Color Creator	Adjust hue and color to suit your creative intent.

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

Uses Art Filter settings. Art effects can also be used. Available effects differ depending on the art filter.

Setting detailed options of a Picture Mode

- **1.** Press $\Delta \nabla$ on the Picture Mode setting screen (P.228) to select the option you want to set.
 - Available settings vary depending on the selected picture mode.



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

Effect	Effect	Choose the strength of i-Enhance. [Effect: Low]: Adds a low effect to images. [Effect: Standard]: Adds an effect between "low" and "high" to images. [Effect: High]: Adds a high effect to images.
Filter	Color Filter	Color filter effects can be added to monochrome picture modes. Depending on the color of the subject, color filter effects can make subjects brighter or enhance contrast. Orange adds more contrast than yellow, red more contrast than orange. Green is a good choice for portraits and the like. [N:None]: No filter effect. [Ye:Yellow]: Reproduces clearly defined white cloud with natural blue sky. [Or:Orange]: Slightly brings out blue skies or the light of the setting sun. [R:Red]: Further brings out blue skies or autumn foliage. [G:Green]: Adds warmth to skin tones in portraits. The green filter also emphasizes the reds in lipstick.
Color	Monochrome Color	Add a tint to pictures when using monochrome picture modes. [N:Normal]: Creates a normal black and white image. [S:Sepia]: Shoot in sepia-tinted monochrome. [B:Blue]: Shoot in blue-tinted monochrome. [P:Purple]: Shoot in purple-tinted monochrome. [G:Green]: Shoot in green-tinted monochrome.
71 1 71 2 71 3 71 4 71 5 71 M	₹ C Picture Mode	Choose a picture mode you want to adjust when using [Custom]. [i-Enhance], [Vivid], [Natural], [Muted], [Portrait], [Monochrome]

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

② Art filters apply only to the JPEG copy. **[RAW+JPEG]** is automatically selected for image quality in place of **[RAW]**.

② Depending on the scene, the effects of some settings may not be visible, while in other cases tone transitions may be ragged or the image rendered more "grainy".

Setting detailed options of a Picture Mode Exclusive for Movies

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



۵	Same as	Movies are recorded using the same setting as configured in Picture Mode.
⊁ i⇔ Cine1	OM-Cinema1	Record movies with a cinematic expression using yellow in the highlights and blue in the shadows to create color contrast. It is recommended to set [Frame Rate] to [24p].
≩ a⇔ Cine2	OM-Cinema2	Record movies with a cinematic expression using soft colors featuring cyan tones and weak contrast. It is recommended to set [Frame Rate] to [24p].
≯ i≊1	Flat	Movies are recorded using a tone curve adapted to color grading.
≯ *æ2	OM-Log400	Movies are recorded using a log tone curve for greater freedom during color grading.

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

PASMB P

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

Menu

- MENU → □1 → 2. Picture Mode/WB → □ Picture Mode Settings
- **1.** Select a picture mode that you want to have displayed, and put a check (✓) next to it.
 - Select an option using △∇ and press the **OK** button to
 put a check (✓) next to it. To remove the check, press the **OK** button again.



Picture Mode Settings screen

Adjusting color (WB (white balance))

PASMB PA

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

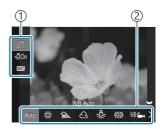
Setting the white balance

Super control panel

• OK → MB/ABWB

Menu

- MENU → □1 → 2. Picture Mode/WB → □WB
- MENU → 🏖 → 2. Picture Mode/WB → 🏖 WB
- **1.** Select a WB mode using the rear dial or $\triangleleft \triangleright$.



WB setting screen

- (1) Item
- (2) White balance
- **2.** To fine-adjust white balance, select an option using $\Delta \nabla$.

Auto	WB Auto	Most normal scenes (scenes containing objects that are white or close to white) This mode is recommended in most situations. You can choose the white balance used under incandescent lighting (P.241).
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**	Sunny	Sunlit outdoor scenes, sunsets, fireworks • Color temperature is set to 5300K.
	Shadow	Daylight shots of subjects in the shade • Color temperature is set to 7500K.
ව	Cloudy	Shots taken in daylight under overcast skies Color temperature is set to 6000K.
- <u>A</u> -	Incandescent	Subjects under incandescent lighting • Color temperature is set to 3000K.
<u>~~~</u>	Fluorescent	Subjects under fluorescent lighting • Color temperature is set to 4000K.
WB <mark>:</mark>	Underwater	Underwater photography
WB \$	WB Flash	Light sources with the same color temperature as flash lighting • Color temperature is set to 5500K.
2 ₁ 2 ₂ 2 ₃ 2 ₄	One-touch WB 1-4	Situations in which you want to set white balance for a specific subject Color temperature is set to a value metered from a white object under the lighting what will be used in the final photograph (P.238).
CWB	Custom WB	Situations in which you can identify the appropriate color temperature • Choose a color temperature.

Making fine adjustments to white balance of each WB mode

You can fine-tune the white balance settings. Adjustments can be made separately.

1. Configure options.

• Press $\Delta \nabla$ on the WB setting screen (P.235) to select the option to adjust.



WB Keep Warm Color (only when WB Auto is used)	[Off]: The camera suppresses the warm tones produced by incandescent lighting when Auto is used. [On]: The camera preserves the warm tones produced by incandescent lighting when Auto is used.
₩₽ ½ (WB Compensation)	Use the front dial or ▷ to adjust the "amber–blue" axis. Moving the pointer (-†-) closer to A adds a red cast and moving it closer to B adds a blue cast. Use the rear dial or ▷ to adjust the "green–magenta" axis. Moving the pointer (-†-) closer to G adds a green cast and moving it closer to M adds a magenta cast. When ☑ (WB Compensation) is done, a mark (*) appears next to the WB mode icon. Pressing the INFO button in still photography mode allows you to take a test picture with the current configuration. Press the INFO button again to return to the setting screen. Press and hold the OK button to reset the adjusted values. ⑤ Fine-tune white balance of all white balance modes at once. [AII WBZ] (P.240)
Kelvin (only for Custom WB)	You can set the color temperature. [2000K] – [14000K]

One-touch white balance

Measure white balance by framing a piece of paper or other white object under the lighting that will be used in the final photograph. Use this option to fine-tune white balance when you find it hard to obtain the desired results with white balance compensation or preset white balance options such as % (Sunny) or \bigcirc (Cloudy). The camera stores the metered value for quick recall as required. Separate values can be stored for still photography and movie recording.

- **1.** Select [♣1], [♣2], [♣3], or [♣4] (one-touch white balance 1, 2, 3, or 4) on the WB setting screen.
- 2. Select Set.
- **3.** Frame a piece of colorless (white or gray) paper in the center of the display.
 - Frame the piece of paper so that it fills the display. Ensure that it is free of shadows.
 - Press the INFO button.
 - The one-touch white balance screen appears.
- **4.** Highlight **[Yes]** and press the **OK** button.
 - The new value is saved as a preset white balance option.
 - The new value is stored until one-touch white balance is measured again. Turning the power
 off does not erase the data.

Metering with the Button

- **1.** Frame a piece of colorless (white or gray) paper in the center of the display.
 - Frame the piece of paper so that it fills the display. Ensure that it is free of shadows.

- **2.** Hold the button to which One-Touch White Balance is assigned and press the shutter button all the way down.
 - When recording movies, press the button to which One-Touch White Balance is assigned to proceed to Step 3.
 - You will be prompted to choose the one-touch white balance option that will be used to store the new value.
- **3.** Highlight an option using $\Delta \nabla$ and press the **OK** button.
 - The new value will be saved as the value for the selected setting and the camera will exit to the shooting display.



PASMB #

Fine-tune white balance of all white balance modes at once.

Menu

All WB

- MENU → □1 → 2. Picture Mode/WB → □AII WBZ
- MENU → 🏖 → 2. Picture Mode/WB → 🏖 All WEIZ

Use the front dial or $\triangleleft \triangleright$ to adjust the "amber–blue" axis. Moving the pointer (- $\frac{1}{4}$ -) closer to A adds a red cast and moving it closer to B adds a blue cast.

Use the rear dial or $\Delta \nabla$ to adjust the "green–magenta" axis. Moving the pointer (- $\dot{\phi}$ -) closer to G adds a green cast and moving it closer to M adds a magenta cast.

When All WB Compensation is performed, a mark (*) appears next to each WB mode icon.

Press and hold the **OK** button to reset the adjusted values.

Preserving the warm tones of incandescent lighting when in WB Auto mode (WB AUTO Keep Warm Color)

PASMB A

Choose how the camera adjusts white balance for pictures taken using auto white balance under incandescent lighting.

Menu

- MENU → □1 → 2. Picture Mode/WB → □ WB Keep Warm Color
- MENU → 🏻 → 2. Picture Mode/WB → 🛱 🚜 Keep Warm Color

Off	The camera suppresses the warm tones produced by incandescent lighting.
On	The camera preserves the warm tones produced by incandescent lighting.

Flash White Balance (+ WB)

PASMB A

Choose the white balance used for photos taken with a flash. Instead of using a setting adapted to flash lighting, you can opt to prioritize the value selected for non-flash photography. Use this option to automatically switch from one white balance setting to another when you find yourself frequently enabling and disabling the flash.

Menu

• MENU → □1 → 2. Picture Mode/WB → \$+WB

Off	The camera uses the value currently selected for white balance.
WB Auto	The camera uses auto white balance ([WB Auto]).
WB \$ 5500K	The camera uses flash white balance ([WB\$]).

Setting the color reproduction format (Color Space)

PASMB A



You can select a format to ensure that colors are correctly reproduced when shot images are regenerated on a monitor or using a printer.

Menu

• MENU → □₁ → 2. Picture Mode/WB → Color Space

sRGB	The color space standardized by an international standards organization. It is widely supported across displays, printers, digital cameras, and computer applications. This setting is recommended in most circumstances.
Adobe RGB	It can reproduce a wider gamut of colors than sRGB. Accurate color reproduction is available only with software and devices (displays, printers, and the like) that support this standard. An underscore ("_") appears at the beginning of the file name (e.g., "_xxx0000.jpg").

[Adobe RGB] is not available in HDR or when an art filter is selected for picture mode.

Preview Options for [≅ Picture Mode] (¾ ≅ View Assist)



The display can be adjusted for ease of viewing when **[Flat]** or **[OM-Log400]** is selected for **[Picture Mode]** (P.233).

Menu

• MENU → 🎛 → 2. Picture Mode/WB → 🛣 🛱 View Assist

On	Adjust the picture for ease of viewing. The indicators in the display may change color.
Off	Do not adjust the picture for ease of viewing.

- (?) This option applies only to the display, not to the actual movie files.
- This option does not apply when movies recorded using [Flat] or [OM-Log400] are played back on the camera. It also does not apply when the movies are viewed on a TV.

Special shooting modes (Computational Modes)

Shooting still pictures in a higher resolution (High Res Shot)

PASMB A



Shoot at resolutions higher than that of the image sensor. The camera takes a series of shots while moving the image sensor and combines them to create a single high-resolution photo. Use this option to capture details that normally would not be visible even at high zoom ratios.

When High Res Shot is enabled, the image quality mode for High Res Shot can be selected using [**△ 4**:] (P.219).

Button

• CP button

Menu

MENU → □₂ → 1. Computational Modes → High Res Shot

Enabling High Res Shot

1. Use $\Delta \nabla$ to select [**High Res Shot**] and press the **OK** button.



High Res Shot setting screen

2. Use <1> to select [On ♠] (tripod) or [On ♠] (handheld) and press the OK button.

Off	High Res Shot is disabled.
On <mark>祭</mark> (Tripod)	Shoot with the camera fixed to a tripod. The RAW picture is recorded in 80M (10368 \times 7776).
On (Handheld)	Shoot with the camera in your hands. The RAW picture is recorded in 50M (8160 \times 6120).

3. The display returns to the High Res Shot setting screen.

Configuring High Res Shot

- **1.** Configure options.
 - Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
 - After configuring options, press the **OK** button to return to High Res Shot setting screen.



⊞ 4 :	Choose the image quality of High Res Shot shooting (P.219).
Waiting Time	Set how long the camera waits before releasing the shutter after you press the shutter button fully. Use this to prevent the effect of camera shake caused by the pressing of the shutter button.
\$ Charge Time	Choose how long the camera waits for the flash to charge between shots when using a flash unit not specifically designated for use with the camera.

Shooting

- Press the MENU button to close the High Res Shot setting screen and return to shooting screen.
 - The icon * will be displayed. The icon will flash if the camera is not steady. The icon stops flashing and glow when the camera is steady and ready to shoot.



• After enabling High Res Shot, check the option selected for image quality. Image quality can be adjusted in the super control panel.

2. Release the shutter.

- Shooting is complete when the green icon clears from the display.
- The camera will automatically create the composite image when shooting is complete. A
 message will be displayed during this process.
- Choose from JPEG (F or F) and RAW+JPEG modes. When image quality is set to RAW+JPEG, the camera saves a single RAW image (extension ".ORI") before combining it with the high resolution shooting. Pre-combination RAW images can be played back using the latest version of OM Workspace.
- ② [S-IS Off] is automatically selected for [☐ Image Stabilizer] (P.213) when [On ♥] (tripod) is chosen, [S-IS Auto] when [On ➡] (handheld) is selected.
- ②The maximum wait time for [On □] (handheld) is 1 second.
- ① During RC flash photography, the maximum flash wait time is 4 seconds and the flash control mode is fixed at [#Manual].
- The following cannot be used:
 - multiple exposure, keystone compensation, bracketing, focus stacking, fisheye correction, HDR, anti-flicker shooting, live ND shooting, and interval shooting
- When High Res Shot is enabled, [Drive] is set to [♥□] (Silent Single). [♥₺12s] (Silent self-timer 12s), [♥₺2s] (Silent self-timer 2s) and [♥₺c] (Silent custom self-timer) can be set.
- (?) Pictures taken with an art filter selected for picture mode will be recorded in [Natural] mode.
- (1) Image quality may drop under flickering light sources such as fluorescent or LED lamps.
- ① If the camera is unable to record a composite image due to blur or other factors, and if [JPEG] is selected for image quality, the first shot will be recorded in JPEG format. If [RAW+JPEG] is selected, the camera will record two copies of the first shot, one in RAW (.ORF) and the other in JPEG format.

Setting with the CP button

When setting from the button, you can turn this function on and off using the **CP** button.

You can also switch between **[On **]** (tripod) and **[On ***]** (handheld) by rotating the front or rear dial while pressing the **CP** button. **(Computational Modes)**" (P.340)

Slowing the Shutter in Bright Light (Live ND Shooting)

PASMB A

The camera combines a series of exposures to create a single photo, giving the appearance of a single photo taken at a slow shutter speed.

Enabling Live ND Shooting

Menu

- MENU → □2 → 1. Computational Modes → Live ND Shooting
- **1.** Use $\Delta \nabla$ to select **[Live ND Shooting]** and press the **OK** button.



Live ND Shooting setting screen

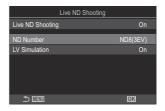
2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Pictures are taken with the slow shutter effect enabled.

3. The display returns to the Live ND Shooting setting screen.

Configuring Live ND Shooting

- 1. Configure options.
 - Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
 - After configuring options, press the **OK** button to return to Live ND Shooting setting screen.



ND Number	Choose an ND filter type; the camera will convert it to an exposure value and reduce exposure by that amount. Options are available in increments of 1 EV: [ND2(1EV)]/[ND4(2EV)]/[ND8(3EV)]/[ND16(4EV)]
LV Simulation	Choose whether to preview the effect of the selected filter at the current shutter speed. [Off]: Use the standard shooting display.
	[On]: The effects of shutter speed are shown in the display.

Shooting

- **1.** Press the **MENU** button to close the Live ND Shooting setting screen and return to shooting screen.
 - An icon appears in the display.



2. Adjust shutter speed while previewing the results in the display.

- Adjust shutter speed using the rear dial.
- The fastest shutter speed available varies with the ND filter selected.

[ND2(1EV)]: 1/30 s [ND4(2EV)]: 1/15 s [ND8(3EV)]: 1/8 s [ND16(4EV)]: 1/4 s



1)Shutter speed

- If [On] is selected for [LV Simulation], the effects of changes to shutter speed can be previewed in the display.
- The camera requires a length of time equivalent to the selected shutter speed to produce [LV **Simulation**] results similar to the final image.
- When the time equivalent to the selected shutter speed passes, the "LV" part of the icon on the screen turns green.
 - When the LV icon is green, the display is similar to the final image.
- Changing exposure compensation or shutter speed resets the [LV Simulation] display.

3. Release the shutter.

- To end live ND filter photography, select [Off] in the [Live ND Shooting] display.
- (?) Art filter picture modes (P.227) are not available.
- The upper limit for [IDISO] during live ND photography is ISO 800. This also applies when [Auto] is selected for [ISO].
- (?) The following cannot be used:
 - Flash photography, HDR, High Res Shot, multiple exposure, keystone compensation, bracketing, focus stacking, interval-timer photography, on flicker scan, flickerless photography, and fisheye correction
- When Live ND Shooting is enabled, [Drive] is set to [♥□] (Silent Single). [♥᠔12s] (Silent self-
- (I) Unlike physical ND filters, the live ND filter does not reduce the amount of light reaching the image sensor, and consequently very bright subjects may be overexposed.

Setting with the CP button

Press and hold the **CP** button and rotate the front or rear dial. **CP** button (Computational Modes)" (P.340)

After configuring options, press the **CP** button again to return to Live ND Shooting setting screen.

Increasing Depth of Field (Focus Stacking)

PASMB P



Combine multiple images for a depth of field greater than can be obtained with a single shot. The camera takes a series of shots at focus distances both in front of and behind the current focus position and creates a single image from the areas that are in focus in each shot.

Choose this option if you want all areas of the subject in focus in photographs taken at short ranges or wide apertures (low f-numbers). The pictures are taken in silent mode using the electronic shutter.

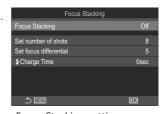
- (1) The composite image is recorded in JPEG format, regardless of the option selected for image quality.
- (?) The composite image is enlarged 7% horizontally and vertically.
- (?) Shooting will end if focus or zoom is adjusted after the shutter button has been pressed all the way down to start focus stacking photography.
- (1) If focus stacking fails, the camera will record the selected number of photos without creating a composite image.
- (?) This option is available only with lenses that support focus stacking. See our website for information on compatible lenses.
- (1) When the picture mode is set to [e-Portrait] or art filter, it changes to [Natural].

Menu

• MENU → □2 → 1. Computational Modes → Focus Stacking

Enabling Focus Stacking

1. Use $\Delta \nabla$ to select **[Focus Stacking]** and press the **OK** button.



Focus Stacking setting screen

2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Pictures are taken with increased depth of field.

3. The display returns to the Focus Stacking setting screen.

Configuring Focus Stacking

- **1.** Configure options.
 - Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
 - After configuring options, press the **OK** button to return to Focus Stacking setting screen.



Set number of shots	Choose the number of shots to be taken with varied focus positions. [3] – [8]
Set focus differential	Choose the amount the camera varies focus with each shot. [1] – [10]
‡ Charge Time	Choose how long the camera waits for the flash to charge between shots when using a flash unit not specifically designated for use with the camera. [0sec] / [0.1sec] / [0.2sec] / [0.5sec] / [1sec] / [2sec] / [4sec] / [8sec] / [15sec] / [30sec]

Shooting

- Press the MENU button to close the Focus Stacking setting screen and return to shooting screen.
 - 🖾 appears on the screen.
 - A frame indicating the final crop will be shown in the display. Compose the shot with your subject in the frame.



- **2.** Release the shutter.
 - The camera will automatically take the selected number of shots when the shutter button is pressed all the way down.
- When [Focus Stacking] is set to [On], [Flash Mode] in [Silent [♥] Settings] (P.207) becomes [Allow].
- ② The flash sync speed is set to 1/50 s. It will be set to 1/20 s when [♠ ISO] is 8000 or higher.
 ③ The following cannot be used:
 - HDR, High Res Shot, multiple exposure, keystone compensation, bracketing, interval-timer photography, flicker scan, fisheye correction, and live ND shooting

Setting with the CP button

Press and hold the **CP** button and rotate the front or rear dial and select [[12]] to turn on focus stacking. [13] "Using the **CP** button (Computational Modes)" (P.340)

Press and hold the **CP** button to choose an option for focus stacking.

Press the **CP** button again to turn off focus stacking.

Taking HDR (High Dynamic Range) images (HDR)

PASMB P



The camera varies exposure over a series of shots, selects from each tone range with the highest level of detail, and combines them to create a single picture with a wide dynamic range. If the photo features a high-contrast subject, details that would otherwise be lost in shadows or highlights will be preserved.

① Use a tripod or take similar measures to fix the camera in place.

Menu

• **MENU** \Rightarrow Ω_2 \Rightarrow 1. Computational Modes \Rightarrow HDR

Off	HDR is disabled.	
HDR1	Each time you take a photo, the camera will take a series of shots while varying exposure	
HDR2	 and combine them into a single picture. Choose [HDR1] for natural-looking results, [HDR2] for a more painterly effect. [DISO] is fixed at ISO 200. Shutter speeds can be as slow as 4 s. Shooting will continue for up to 15 s. Picture mode is fixed at [Natural] and color space at [sRGB]. The HDR-processed images are recorded in JPEG format. Pictures taken with [RAW] for image quality are recorded in RAW+JPEG format. 	
3f 2.0EV		
5f 2.0EV	Each time you take a photo, the camera will vary exposure over a series of shots. The shots are not combined to create a single picture. The shots can however be combined	
7f 2.0EV	using HDR software on a computer or other devices. 3f 2.0FV ①Number of shots	
3f 3.0EV	3f 2.0EV 1 Number of shots 2 Exposure range	
5f 3.0EV		

• "HDR" appears on the screen.



1. Release the shutter.

- Each time you press the shutter button, the camera will take the selected number of shots.
- In [HDR1] and [HDR2] modes, the camera will automatically combine the shots into a single picture.
- Exposure compensation is available in modes P, A, or S.
- The image displayed in the monitor or viewfinder during shooting differs from the final HDR picture.
- Noise may appear in the final picture when a slower shutter speed is selected in [HDR1] or [HDR2] mode.
- When [HDR1] or [HDR2] is enabled, [Drive] is set to [♥□] (Silent Single). [♥₺12s] (Silent self-timer 12s), [♥₺2s] (Silent self-timer 2s) and [♥₺C] (Silent custom self-timer) can be set.

 The following cannot be used:
 - flash photography, bracketing, focus stacking, multiple exposure, interval-timer photography, keystone compensation, live ND shooting, fisheye correction, and High Res Shot

Setting with the CP button

Press and hold the **CP** button and rotate the front or rear dial and select **[HDR1]** or **[HDR2]** to turn on HDR. **CP** "Using the **CP** button (Computational Modes)" (P.340)

Press the **CP** button again to turn off HDR.

Recording multiple exposures in a single image (Multiple Exposure)

PASMB S



Take two shots and combine them into a single picture. Alternatively, you can take a shot and combine it with an existing picture stored on the memory card.

The combined image is recorded at current image quality settings. Only RAW pictures can be selected for multiple exposures that include an existing image.

for subsequent multiple exposures using [Overlay], allowing you to create multiple exposures combining three or more photographs.

Menu

MENU → □2 → 1. Computational Modes → Multiple Exposure

Enabling Multiple Exposure

1. Use $\Delta \nabla$ to select [Multiple Exposure] and press the OK button.



Multiple Exposure setting

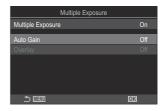
2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Create a multiple exposure from 2 pictures.

3. The display returns to the Multiple Exposure setting screen.

Configuring Multiple Exposure

- **1.** Configure options.
 - Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
 - After configuring options, press the **OK** button to return to Multiple Exposure setting screen.



Auto Gain	[Off]: Do not adjust brightness the brightness of the pictures in the multiple exposure. [On]: Halve the brightness of each picture in the multiple exposure.
Overlay	 [Off]: Create a multiple exposure from the next 2 pictures taken. [On]: Shoot a multiple exposure that includes an existing RAW image stored on the memory card. [Overlay] is only available when [On] is selected for [Multiple Exposure].

Shooting

- **1.** Press the **MENU** button to close the Multiple Exposure setting screen and return to shooting screen.
 - The icon will be displayed.



2. Release the shutter.

- The first shot will be visible superimposed on the view through the lens as you compose the next shot.
- The 🗖 icon turns green.
- Normally, a multiple exposure will be created after the second shot is taken.
- Pressing the button allows you to retake the first shot.
- The icon clears from the display when multiple exposure ends.

Setting with the CP button

Press and hold the **CP** button and rotate the front or rear dial and select [to turn on multiple exposure. Solution (Computational Modes)" (P.340)

Press and hold the **CP** button to choose an option for multiple exposure.

Press the **CP** button again to turn off multiple exposure.

When [Overlay] is set

When [On] is selected for [Overlay], a list of pictures is displayed.

- **1.** Highlight an image using the $\triangle \nabla \triangleleft \triangleright$ buttons and press the **OK** button.
 - Only RAW images can be selected.
- 2. Press the **MENU** button to exit the menus.
 - The icon will be displayed.
 - The selected picture is overlaid on the screen.
- **3**. Release the shutter.
 - You can take additional pictures that will be overlaid on the previously-chosen photograph.
- The camera will not enter sleep mode during multiple exposure photography.
- Pictures taken with other cameras cannot be used for multiple exposures.
- (PRAW pictures taken using High Res Shot cannot be used for multiple exposures.
- The RAW pictures listed in the image-selection display when [On] is selected for [Overlay] are those processed using the settings in effect at the time the photograph was taken.

- Exit multiple exposure mode before adjusting shooting settings. Some settings cannot be adjusted while multiple exposure mode is in effect.
- Performing any of the following operations after the first shot is taken ends multiple exposure photography:
 - turning the camera off, pressing the or **MENU** button, choosing a different shooting mode, running out of battery, or connecting cables to any connectors.
- The image-selection display for [Overlay] shows the JPEG copies of photographs taken with RAW+JPEG selected for image quality.
- (Live composite photography ([Live Comp]) is not available in mode B.
- The following functions cannot be used during multiple exposure photography.
 - HDR, bracketing, focus stacking, interval-timer photography, keystone compensation, live ND shooting, fisheye correction, and High Res Shot
- Performing any of the following operations ends [Overlay]. In this case, if [Multiple Exposure] has been set to [On], [Multiple Exposure] will also be set to [Off].
 - Turning the camera off,
 - Editing images and movies (JPEG Edit/RAW Data Edit/Movie Edit/Image Overlay),
 - Deleting images and movies,
 - Formatting the card,
 - Removing the card, or
 - Establishing a USB connection using [Storage] or [MTP].

Ø Pictures taken with RAW selected for [☐ ◀:] can also be overlaid during playback.

"Combining Pictures (Image Overlay)" (P.320)

Digital Zoom (Digital Tele-converter / Digital Tele-converter)

PASMB A

This option takes a crop at the center of the frame the same dimensions as the size option currently selected for image quality and zooms it in to fill the display. This allows you to zoom in past the lens' maximum focal length, making it a good choice when you are unable to switch lenses or find it difficult to get any closer to your subject.

Menu

- MENU → □2 → 2. Other Shooting Functions → □ Digital Tele-converter
- MENU → 🎛 → 1. Basic Settings/Image Quality → 🎛 Digital Tele-converter

Off	Pictures are taken without using this function.
On	Images are recorded enlarged (Still pictures: 2x, Movies: 1.4x).

- When [On] is selected, an icon is displayed and, when live view is enabled, it is enlarged.
- The size of the AF targets (P.116) increases and their number decreases.



- JPEG images are recorded at the selected zoom ratio.
 In the case of RAW images, a frame shows the zoom crop. A frame showing the zoom crop is displayed on the image during playback.
- ① In still photography mode, this function cannot be used during multiple exposure, keystone comp., fisheye correction, or when panorama is selected for SCN mode.
- ① In movie mode, this function cannot be used when the sensor frame rate is [120fps].
- ② You cannot zoom in on the display when [☐ Digital Tele-converter] is set to [On].

 □ "Previewing the subject (□)" (P.53), "Zoom frame AF/Zoom AF (Super Spot AF)" (P.121),

 "Manual Focus Assist (MF Assist)" (P.153)

Shooting automatically with a fixed interval (Interval Shooting)

PASMB 🖴



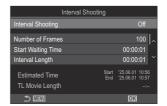
You can set the camera to shoot automatically with a set time lapse. The shot frames can also be recorded as a single movie.

Menu

• MENU → □2 → 2. Other Shooting Functions → Interval Shooting

Enabling Interval Shooting

1. Use $\Delta \nabla$ to select [Interval Shooting] and press the **OK** button.



Interval Shooting setting screen

2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

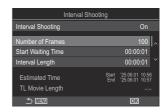
Off	Pictures are taken without using this function.
On	Pictures are taken at specified intervals.

3. The display returns to the Interval Shooting setting screen.

Configuring Interval Shooting

1. Configure options.

- Press △∇ to select an item and press the **OK** button to display the setting menu.
- After configuring options, press the **OK** button to return to Interval Shooting setting screen.



Number of Frames	Choose the number of frames shot. [002] – [9999]
Start Waiting Time	Choose how long the camera waits before starting interval timer photography and taking the first shot. [00:00:00] – [24:00:00]
Interval Length	Choose how long the camera waits between shots once shooting has begun. [00:00:01] – [24:00:00]
Interval Mode	Choose whether to put priority on the interval time or the number of frames. [Time Priority]/[Frames Priority] If [Time Priority] is selected, the previous shooting may be still in progress even when it is time to shoot the next shot. When the selected [Interval Length] is short or when using long exposure, the number of recorded frames may be smaller than the number selected for [Number of Frames].
Exposure Smoothing	Choose whether to smooth the exposure settings for all frames. The change of exposure will be smooth in the time lapse movie. [Off]/[On]
Time Lapse Movie	Choose whether to record a time-lapse movie. [Off]: The camera saves the individual shots but does not use them to create a time-lapse movie. [On]: The camera records the individual shots and also uses them to create a time-lapse movie.

	Choose the frame size ([Movie Resolution]) and frame rate ([Frame Rate]) for movies created using [Time Lapse Movie].
Movie Settings	The options available for [Movie Resolution] are: [4K]/[FullHD]
	Choose the [Frame Rate] from the following options. [30fps]/[15fps]/[10fps]/[5fps]

[Start Waiting Time], [Interval Length] and [Estimated Time] may change depending on shooting settings. Use these as quidelines only.

Shooting

- **1.** Press the **MENU** button to close the Interval Shooting setting screen and return to shooting screen.
 - An licon and the selected number of frames appear on the shooting screen.



- **2.** Release the shutter.
 - The specified number of frames will be shot automatically.
- The 🚇 icon will turn green and the number of shots remaining will be displayed.
- Time lapse shooting will be canceled if any of the following is operated:
 Mode dial, MENU button, button, lens release button, or connection to a computer using a USB cable.
- Turning the camera off ends interval-timer photography.
- Trames are shot even if the image is not in focus after AF. If you wish to fix the focus position, shoot in MF.
- [Image Review] (P.54) is fixed at 0.5 seconds.

- ① If the time until shooting or the shooting interval is 1 minute 31 seconds or longer, the monitor will go dark and the camera will enter sleep mode if no operations are performed for 1 minute. The display will turn on automatically 10 seconds before shooting for the next interval begins. It can also be reactivated by pressing the shutter button at any time.
- ① The camera automatically selects [S-AF] for AF mode (P.110) in place of [C-AF] and [C-AF+TR], and [S-AF M■] in place of [C-AF M■] and [C-AF+TR M■].
- When [★AF] is selected as the AF mode (P.110), focus to initiate shooting, then lock focus and start recording.
- ② Touch operations are disabled during time lapse shooting.
- ② Interval shooting cannot be combined with High Res Shot, HDR, bracketing, focus stacking, multiple exposure, or live ND shooting.
- ① The flash will not work if the flash charging time is longer than the interval between shots.
- When 1000 or a larger number is selected for [Number of Frames], [Time Lapse Movie] will be set to [Off].
- (2) If any of the still pictures are not recorded correctly, the time lapse movie will not be generated.
- (2) If there is insufficient space on the card, the time lapse movie will not be recorded.
- If there is not enough charge left on the battery, the shooting will end partway through. Use a sufficiently charged battery or connect a USB-AC adapter or a commercially available mobile battery to the camera when shooting.

Keystone correction and perspective control (Keystone Comp.)

PASMB A

Keystone distortion due to the influence of lens focal length and proximity to the subject can be corrected, or enhanced to exaggerate the effects of perspective. Keystone compensation can be previewed in the monitor during shooting. The corrected image is created from a smaller crop, slightly increasing the effective zoom ratio.

Menu

• MENU → □2 → 2. Other Shooting Functions → Keystone Comp.

Off	Keystone compensation is not applied.
On	Keystone compensation is applied.

 When you select [On], a keystone compensation icon is displayed and sliders appear on the monitor.



- 1. Frame the shot and adjust keystone compensation while viewing your subject in the display.
 - Rotate the front dial to make horizontal adjustments and the rear dial to make vertical adjustments.
 - Use $\triangle \nabla \triangleleft \triangleright$ to position the crop. The direction in which the crop can be moved is shown by the \blacktriangle icon.
 - To cancel changes, press and hold the **OK** button.
- **2.** To adjust aperture, shutter speed, and other shooting settings, press the **INFO** button.
 - The camera will return to the standard shooting display.
 - The \overline{W} icon is displayed while keystone compensation is enabled. The icon is displayed in green if adjustments have been made to keystone compensation settings.
 - To return to the keystone compensation display shown in Step 1, press the INFO button repeatedly.

3. Release the shutter.

- Pictures may seem "grainy" depending on the amount of compensation performed. The amount of compensation also determines the amount the picture will be enlarged when cropped and whether the crop can be moved.
- (2) Depending on the amount of compensation, you may be unable to reposition the crop.
- ② Depending on the amount of compensation performed, the selected AF target may not be visible in the display. If the AF target is outside the frame, its direction is indicated by a â, ♀, ←□, or □→ icon in the display.
- Pictures taken with [RAW] for image quality are recorded in RAW+JPEG format.
- The following cannot be used:
 - Composite photography, sequential photography, bracketing, focus stacking, HDR, multiple exposure, live ND shooting, fisheye compensation, the digital teleconverter, movie recording, [C-AF], [C-AF], [C-AF+TR], and [C-AF+TR] AF modes, [e-Portrait] in Picture Mode, art filters, the custom self-timer, High Res Shot, and face & eye detection
- (1) Lens converters may not produce the desired results.
- Be sure to provide [Image Stabilizer] data for lenses that are not part of the Four Thirds or Micro Four Thirds family (P.213).
 - Where applicable, keystone compensation will be performed using the focal length supplied for **[Colored Stabilizer]** (P.213) or **[Lens Info Settings]** (P.380).

Correcting Fisheye Distortion (Fisheye Compensation)

PASMB A

Correct distortion caused by fisheye lenses to give photos the appearance of pictures taken with a wide-angle lens. The amount of correction can be selected from three different levels. You can also opt simultaneously to correct distortion in photos taken under water.

This option is only available with compatible fisheye lenses.
 As of June 2025, it could be used with the M.ZUIKO DIGITAL ED 8mm F1.8 Fisheye PRO.

Menu

• **MENU** \Rightarrow \square_2 \Rightarrow 2. Other Shooting Functions \Rightarrow Fisheye Compensation

Enabling Fisheye Compensation

1. Use $\Delta \nabla$ to select **[Fisheye Compensation]** and press the **OK** button



Fisheye Compensation setting screen

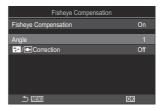
2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Pictures are taken with fisheye compensation applied.

3. The display returns to the Fisheye Compensation setting screen.

Configuring Fisheye Compensation

- 1. Configure options.
 - Press △∇ to select an item and press the **OK** button to display the setting menu.
 - After configuring options, press the **OK** button to return to Fisheye Compensation setting screen.



Angle	When fisheye correction is performed, the picture is cropped to eliminate blacked-out areas. Choose from three different crops. [1] / [2] / [3]
₹ / △ Correction	Choose whether to correct distortion in photos taken under water in addition to the correction performed using [Angle]. [Off]/[On]

Shooting

- **1.** Press the **MENU** button to close the Fisheye Compensation setting screen and return to shooting screen.
 - When fisheye compensation is enabled, a 圏 icon will be displayed together with the selected crop.



- **2.** Release the shutter.
- Pictures taken with [RAW] for image quality are recorded in RAW+JPEG format. Fisheye compensation is not applied to the RAW image.
- Pocus peaking is not available in the fisheye compensation display.

- ② AF target selection is restricted to [] Single-S and [] Single target modes.
- The following cannot be used:
 - Composite photography, sequential photography, bracketing, focus stacking, HDR, multiple exposure, live ND shooting, keystone comp., the digital teleconverter, movie recording, [C-AF], [C-AFME], [C-AF+TR], and [C-AF+TRME] AF modes, [e-Portrait], art filters, the custom self-timer, high res shot, and face & eye detection

Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)

PASMB A

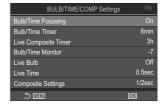
Set items related to bulb/time/composite photography.

Menu

• MENU → □2 → 2. Other Shooting Functions → BULB/TIME/COMP Settings

1. Configure options.

• Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.



Bulb/Time Focusing	Allows manual focusing in B (bulb) mode. You can take pictures using techniques such as putting the subject out of focus during exposure or focusing at the end of exposure. [Off]: Disables manual focusing during exposure. [On]: Enables manual focusing during exposure.
Bulb/Time Timer	Specify the maximum length of bulb/time photography. [30min] / [25min] / [20min] / [15min] / [8min] / [4min] / [2min] / [1min]
Live Composite Timer	Specify the maximum length of live composite photography. [6h] / [5h] / [4h] / [3h] / [2h] / [1h] / [30min] / [25min] / [20min] / [15min] / [8min] / [4min]
Bulb/Time Monitor	Specify the display brightness in B (bulb) mode. $[-7] - [\pm 0] - [+7]$
Live Bulb	Choose the display interval during bulb photography. The number of update times is limited. Choose [Off] to disable the display. [60sec] / [30sec] / [15sec] / [8sec] / [4sec] / [2sec] / [1sec] / [0.5sec] / [Off]

Live Time	Choose the display interval during time photography. The number of update times is limited. Choose [Off] to disable the display. [60sec] / [30sec] / [15sec] / [8sec] / [4sec] / [2sec] / [1sec] / [0.5sec] / [Off]
Composite Settings	Set an exposure time to be the reference in composite photography. [60sec] / [50sec] / [40sec] / [30sec] / [25sec] / [20sec] / [15sec] / [13sec] / [10sec] / [6sec] / [5sec] / [4sec] / [3.2sec] / [2.5sec] / [2sec] / [1.6sec] / [1.3sec] / [1/1.3sec] / [1/1.6sec] / [1/2sec]

Recording a series of shots with varied exposure (AE BKT)

PASMB #

Vary exposure over a series of shots. You choose the amount of variation and the number of shots. The camera takes a series of shots with different exposure settings. The camera will take pictures while the shutter button is pressed all the way down, ending when the selected number of shots has been taken.

Menu

• MENU → □2 → 3. Bracketing → AE BKT

Off	Pictures are taken without using this function.
3f 0.3EV	3 pictures are taken with the bracketing amount of 0.3 EV.
3f 0.7EV	3 pictures are taken with the bracketing amount of 0.7 EV.
3f 1.0EV	3 pictures are taken with the bracketing amount of 1.0 EV.
5f 0.3EV	5 pictures are taken with the bracketing amount of 0.3 EV.
5f 0.7EV	5 pictures are taken with the bracketing amount of 0.7 EV.
5f 1.0EV	5 pictures are taken with the bracketing amount of 1.0 EV.
7f 0.3EV	7 pictures are taken with the bracketing amount of 0.3 EV.
7f 0.7EV	7 pictures are taken with the bracketing amount of 0.7 EV.

"BKT" is displayed in green until all the shots in the bracketing sequence have been taken. The first shot is taken at current exposure settings, followed first by the shots with reduced exposure and then by the shots with increased exposure.

The settings used to alter exposure vary with the shooting mode.

P (program AE)	Both aperture and shutter speed
A (aperture-priority AE)	Shutter speed
S (shutter-priority AE)	Aperture
M (manual)	 Shutter speed (when [ISO] is not set to [Auto]) ISO sensitivity (when [ISO] is set to [Auto])

- If exposure compensation is enabled before shooting begins, the camera will vary exposure output around the selected value.
- Changing the option selected for **[EV Step]** (P.164) changes the options available for bracketing amount.

(P.280). This setting cannot be combined with flash bracketing (P.276) or focus bracketing (P.280).

Recording pictures with varied white balance (WB BKT)

PASMB P



The camera varies white balance to record a series of pictures. You choose the color axis and the bracketing amount.

The entire series is shot with a single press of the shutter button. The camera takes one picture when the shutter button is pressed all the way down and automatically processes it to record the pictures.

<u>Menu</u>
• MENU → □2 → 3. Bracketing → WB BKT

A-B	Select the bracketing amount for the A-B (amber–blue) axis. [Off] / [3f 2Step] / [3f 4Step] / [3f 6Step]
G-M	Select the bracketing amount for the G-M (green–magenta) axis. [Off] / [3f 2Step] / [3f 4Step] / [3f 6Step]

Three pictures are created for each color axis.

The first copy is recorded at current white balance settings, the second using a negative value for compensation, and the third using a positive value.

If white balance fine-tuning is enabled before shooting begins, the camera will vary white balance around the selected value

This setting cannot be combined with art filter bracketing (P.278) or focus bracketing (P.280).

Recording pictures with varied flash level (FL BKT)

PASMB A

The camera varies flash level (output) over a series of shots. You choose the amount of variation. The camera takes a shot at a new flash level each time the shutter button is pressed all the way down. Bracketing ends after the required number of shots has been taken. In burst shooting modes, the camera will take pictures while the shutter button is pressed all the way down, ending when the required number of shots has been taken.

Menu • MENU → □₂ → 3. Bracketing → FL BKT

Off	Pictures are taken without using this function.
3f 0.3EV	3 pictures are taken with the bracketing amount of 0.3 EV.
3f 0.7EV	3 pictures are taken with the bracketing amount of 0.7 EV.
3f 1.0EV	3 pictures are taken with the bracketing amount of 1.0 EV.

[&]quot;BKT" is displayed in green until all the shots in the bracketing sequence have been taken. The first shot is taken at current flash settings, followed first by the shot with reduced flash output and then by the shot with increased flash output.

If flash compensation is enabled before shooting begins, the camera will vary flash output around the selected value.

& If you change the [EV Step] (P.164) setting, the bracketing amount of flash also changes.

This setting cannot be combined with AE bracketing (P.273) or focus bracketing (P.280).

Recording pictures with varied ISO sensitivity (ISO BKT)

PASMB P

The camera varies ISO sensitivity to record a series of pictures. You choose the amount of variation and the number of shots. The entire series is shot with a single press of the shutter button. The camera takes one picture when the shutter button is pressed all the way down and automatically processes it to record the required number of shots.

Menu

• MENU → □2 → 3. Bracketing → ISO BKT

Off	Pictures are taken without using this function.
3f 0.3EV	3 pictures are taken with the bracketing amount of 0.3 EV.
3f 0.7EV	3 pictures are taken with the bracketing amount of 0.7 EV.
3f 1.0EV	3 pictures are taken with the bracketing amount of 1.0 EV.

The first copy is recorded at the current ISO sensitivity setting, the second with sensitivity reduced by the selected amount, and the third with ISO sensitivity increased by the selected amount. If shutter speed or aperture have been changed to modify exposure from the value selected by the camera, the camera will vary ISO sensitivity around the current exposure value.

- The maximum sensitivity selected for [☐ ISO-A Upper/Default] does not apply.
- During silent photography, the flash sync speed is set to 1/20 s.
- Changing the option selected for [ISO Step] (P.177) does not change the options available for bracketing amount.
- This setting cannot be combined with art filter bracketing (P.278) or focus bracketing (P.280).

Recording copies of one picture with different art filters applied (ART BKT)

PASMB P



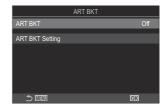
Create multiple versions of each picture, each with a different art filter applied.

Enabling art filter bracketing

Menu

MENU → □₂ → 3. Bracketing → ART BKT

1. Highlight [ART BKT] using the $\triangle \nabla$ buttons and press the OK button.



ART BKT setting screen

2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Pictures are taken with multiple art filters applied.

3. The display returns to the ART BKT setting screen.

Configuring art filter bracketing

- **1.** Select [ART BKT Setting] on the ART BKT setting screen and press the OK button.
- **2.** Select an art filter that you want to apply, and put a check (\checkmark) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (✓) next to it.

To remove the check, press the **OK** button again.



ART BKT Setting

Select the art filters that you want to apply. Picture modes such as [Vivid], [Natural] and [Muted] can also be selected.

- (1) When there are a large number of art filters to be applied, it may take a long time to record the pictures after shooting.
- (?) This setting cannot be combined with bracketing functions other than AE BKT (P.273) and FL BKT (P.276).

Shooting

- **1.** Press the **MENU** button to close the ART BKT setting screen and return to shooting screen.
- 2. The camera takes one picture when the shutter button is pressed all the way down and automatically creates multiple copies, each with a different art filter applied.

Recording pictures with different focus positions (Focus BKT)

PASMB P

The camera varies focus over a series of pictures. You choose the amount and the number of shots. The entire series is shot with a single press of the shutter button. Each time the shutter button is pressed all the way down, the camera takes the selected number of shots, varying focus with each shot. The pictures are taken in silent mode using the electronic shutter.

(?) Focus bracketing is available only when using Micro Four Thirds AF lenses.

Enabling focus bracketing

Menu

• MENU → △2 → 3. Bracketing → Focus BKT

1. Highlight [Focus BKT] using the $\Delta \nabla$ buttons and press the OK button.



Focus BKT setting screen

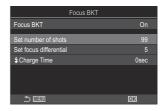
2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

Off	Pictures are taken without using this function.
On	Pictures are taken with varied focus positions.

3. The display returns to the Focus BKT setting screen.

Configuring focus bracketing

- 1. Configure options.
 - Press △ ∇ to select an item and press the OK button to display the setting menu.
 - After configuring options, press the **OK** button to return to Focus BKT setting screen.



Set number of shots	Choose the number of shots to be taken with varied focus positions. [003] – [999]
Set focus differential	Choose the amount the camera varies focus with each shot. [1] – [10]
‡ Charge Time	Choose how long the camera waits for the flash to charge between shots when using a flash unit not specifically designated for use with the camera. [0sec] / [0.1sec] / [0.2sec] / [0.5sec] / [1sec] / [2sec] / [4sec] / [8sec] / [15sec] / [30sec]

Shooting

- **1.** Press the **MENU** button to close the Focus BKT setting screen and return to shooting screen.
- **2.** Press the shutter button the rest of the way down to shoot.
 - Shooting will continue until the selected number of shots has been taken.
 - To interrupt bracketing, press the shutter button all the way down a second time.
 - The camera varies the focus distance by the amount selected for Set focus differential with each shot. Shooting will end if the focus distance reaches infinity.
- ② Shooting will end if focus or zoom is adjusted after the shutter button has been pressed all the way down to start bracketing.
- $\ensuremath{\mathfrak{D}}$ Focus bracketing cannot be combined with other forms of bracketing.

The flash sync speed is set to 1/50 s. It will be set to 1/20 s when [□ ISO] is 8000 or higher.

Functions that are only available in movie mode

Sound Recording Options (Sound Recording Settings)

PASMB P

Adjust settings for recording sound during filming. You can also access settings for use when an external microphone or recorder is connected.

<u>Menu</u>	
• MENU → 🏵 → 5. Sound Recording/Connection → Sound Recording Settings	

	Adjust microphone sensitivity. Choose separate values for the built-in stereo microphone and external microphones.
Recording Volume	[Built-In Ψ]: Adjust the sensitivity of the camera's built-in stereo microphone. [-10] - [0] - [+10]
	[MIC \P]: Adjust the sensitivity of external microphones connected to the microphone jack. [-10] – [0] – [+10]
∮ Volume Limiter	The camera puts a limit on the volume of sounds recorded by the microphone. Use this option to automatically reduce the level of sounds above a certain volume.
	[Off] : Does not put a limit on the volume of sounds recorded by the microphone.
	[On]: Puts a limit on the volume of sounds recorded by the microphone.
Wind Noise Reduction	Reduce wind noise during audio recording.
	[Off]: Does not reduce wind noise during audio recording.
	[Low] / [Standard] / [High]: Set the level of wind noise reduction.

Recording Rate	Choose an audio recording format. [96kHz/24bit]: High-quality audio. [48kHz/16bit]: Standard-quality audio.
∮ Plug-in Power	In most circumstances, there is no need to change this setting. If your external microphone does not require plug-in power, and supplying power causes noise to be recorded, set this to [Off]. [Off]: Does not supply power from the camera to the external microphone. [On]: Supplies power from the camera to the external microphone.
Camera Rec. Volume	This setting is only available when an external microphone is connected. When set to [Inoperative], the camera's sound recording settings ([Recording Volume], [Volume Limiter], [Wind Noise Reduction]) will be disabled. [Operative]: The camera's sound recording settings are enabled. [Inoperative]: The camera's sound recording settings are disabled. The sound input from the external microphone is recorded as is.

Sound is not recorded:

- S&Q (slow and quick) movies, or when ART 7 \(\begin{align*}\) /ART 7 \(\begin{align*}\) (Diorama) is selected for picture mode.
- $\textcircled{\parbox{0.15ex}{\backslash}} \parbox{0.15ex}{\backslash} \pa$
- & Operation sounds of the lens and camera may be recorded in a movie.

To prevent it from recording, reduce the operation sounds by setting [AF Mode] (P.110) to [S-AF], [MF], or [Pre F], or by minimizing the button operations of the camera.

Time Codes (Time Code Settings)

PASMB A

Adjust time code settings. Time codes are used to synchronize picture and sound during editing and the like. Choose from the following options.

Menu • MENU → AP → 5. Sound Recording/Connection → Time Code Settings

Time Code Mode	Choose a time code recording option. Use time codes where precise timing is required. [Drop Frame]: Drop-frame time codes. The time code is adjusted to compensate for deviations from the recording time. [Non-DF]: Non-drop-frame time codes. The time code is not adjusted to compensate for deviations from the recording time.
Count Up	Choose how the time count is incremented. [Rec Run]: The count is incremented only during recording. [Free Run]: The count is incremented continuously, including when recording is not in progress or the camera is off.
Starting Time	Set a starting time for the time code. [Reset]: Reset the time code to 00:00:00 [Manual Input]: Enter the time code manually. [Current Time]: Set the time code to the current time, frame 00.

When setting [Starting Time] to [Current Time], be sure that the camera shows the correct time.
"Setting the Camera Clock (② Settings)" (P.398)

Time codes are not recorded when the sensor frame rate is [120fps].

HDMI Output (☆HDMI Output)

PASMB A

Adjust settings for output to HDMI devices. Options are available for controlling HDMI recorders from the camera or adding time codes for use during movie editing.

Menu

• MENU → 🎛 → 5. Sound Recording/Connection → 🎛 HDMI Output

Output Mode	[Monitor]: The HDMI device functions as an external monitor. The camera outputs both images and indicators to the display. Output settings can be adjusted using the [HDMI Settings] option (P.390).
	[Record]: When live view is displayed in movie mode, the HDMI device functions as an external recorder. Only images are output to the device. Frame size and sound settings are adjusted using camera controls.
REC Bit	The camera and the external device start and stop recording at the same time. This option is only available with compatible devices. [Off]: Does not use this function. [On]: Controls the external device.
Time Code	Output time codes to the external device. Time code settings can be adjusted using [Time Code Settings] (P.285). [Off]: Does not output time codes to the external device. [On]: Output time codes to the external device.

Displaying a red frame while recording movies (Red Frame during © REC)

PASMB A

You can display a red outer frame on the screen to make it easier to see whether the camera is recording a movie.



Menu

• **MENU** → 🏵 → 6. Shooting Assist → Red Frame during **©** REC

Off The camera will not display a red frame.

On The camera will display a red frame during movie recording.

Lamp during movie recording (Recording Lamp)



You can light the lamp on the front of the camera to make it easier to see whether the camera is recording a movie.

Menu	
• MENU → 🛱 → 6. Shooting Assist → Recording Lamp	

Off	The lamp on the front of the camera does not light during movie recording.
Low	The lamp on the front of the camera lights during movie recording.
High	The lamp on the front of the camera lights during movie recording.

&-In the following cases, the movie recording lamp flashes slowly when:

- the batteries are low.
- the internal temperature of the camera has risen, or
- the remaining recording time is running low.

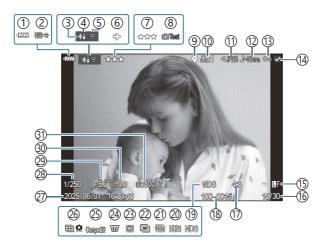
& When the batteries are low, the card is full, or the internal temperature of the camera rises further, movie recording stops and the movie recording lamp flashes quickly.

Playback

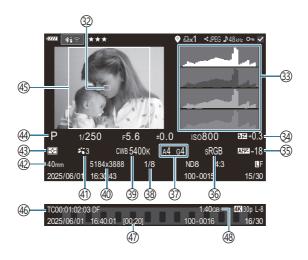
Information display during playback

Playback image information

Basic



Overall



- 1) Battery level (P.37)
- 2) Power supply (P.426)
- (3) Active **Bluetooth**® connection (P.411, P.428)
- (4) Remote control (P.428)
- 5 Wireless LAN connection (P.408)
- 6 Airplane Mode (P.406)
- (7) Rating (P.308)
- 8 Test Picture (P.332)
- 9 GPS data indicator (P.418)
- 10 Print order
 - Number of prints (P.311)
- (11) Share order (P.306)
- (12) Sound Recording (P.283)
- (13) Protect (P.301)
- 14 Image selected (P.310)
- (15) Image Quality (P.219, P.220)
- (16) Frame number/total number of frames
- (17) Aspect Ratio (P.225)
- (18) File numbering (P.378)
- (19) Live ND (P.249)
- 20 HDR image (P.255)
- (21) Focus Stacking (P.252)
- 22) Multiple Exposure (P.257)
- (23) Fisheye Compensation (P.268)
- (24) Keystone Compensation (P.266)
 - 1 Displayed only during movie playback.

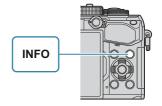
- 25 Composite Photography
 Number of combined shots (P.69)
- 26 High Res Shot (P.245)
- 27) Date and Time (P.398)
- (28) Shutter Speed (P.56, P.61)
- 29) Aperture Value (P.56, P.59)
- 30 Exposure compensation (P.161)
- (P.175)
- 32 AF target display (P.116)
- 33 Histogram (P.48)
- (9.194) (P.194)
- (P.141)
- 36 Color space (P.243)
- (P.237, P.240)
- (8) Compression rate (P.219)
- (9) White balance (P.235)
- 40 Pixel count (P.219)
- (41) Picture Mode (P.227)
- (42) Focal length
- (43) Metering mode (P.168)
- (44) Shooting Mode (P.56)
- (45) Aspect border (P.225)
- (46) Time Code 1 (P.285)
- (47) Movie recording time ¹ (P.511)
- (48) Movie file size 1 (P.511)

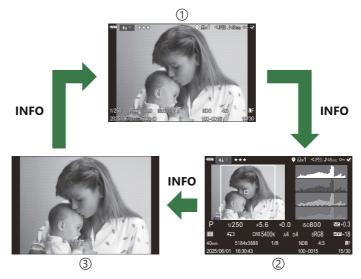
Switching the information display

Button

• INFO button

You can switch the information displayed during playback by pressing the **INFO** button.





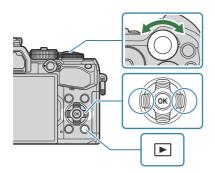
- (1)Basic
- 2 Overall
- ③Image only

Viewing photographs and movies

Viewing photographs

1. Press the button.

- The most recent picture will be displayed.
- Select the desired photograph or movie using the front dial or arrow pad.
- Press the shutter button halfway to return to shooting screen.





Still image

Rear dial (🐸)	Zoom in (S)/Index (S)	
Front dial (🕿)	Previous (♠)/Next (♠) Operation also available during magnified playback.	
Arrow pad $(\triangle \nabla \triangleleft \triangleright)$	Single-frame playback: Next (\triangleright)/Previous (\triangleleft)/Playback volume (\triangle ∇) Playback zoom: Change zoom position Index/calendar playback: Highlight image	
INFO button	View image info	
☑ button	Select picture (P.310)	
★ button	Assign rating stars to pictures (P.309)	
On button	Protect picture (P.301)	
i button	Delete picture (P.302)	

OK button

View the playback direct menu. (In calendar playback, press this button to exit to single-frame playback.)

Watching movies

- 1. Press the button.
 - The most recent picture will be displayed.



Movie

- **2.** Select a movie and press the **OK** button.
 - The playback direct menu will be displayed.



- 3. Select [Play Movie] and press the OK button.
 - Movie playback begins.
 - Fast-forward and rewind using $\triangleleft/\triangleright$.
 - Press the **OK** button again to pause playback. While playback is paused, use Δ to view the first frame and ∇ to view the last frame. Use $\triangleleft \triangleright$ or the front dial to view previous or next frame
 - Press the **MENU** button to end playback.

Playing back separated movies

Long movies are automatically recorded over multiple files when the file size exceeds 4 GB or the recording time exceeds 2 hours (P.90). The files can be played back as a single movie.

- 1. Press the button.
 - The most recent picture will be displayed.
- 2. Display a long movie you want to view and press the **OK** button.
 - The following options will be displayed.

[Play from Beginning]: Plays back a split movie all the way through

[Play Movie]: Plays back files separately

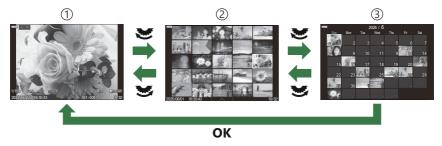
[Delete entire Ω]: Deletes all parts of a split movie

[Erase]: Deletes files separately

We recommend using the latest version of OM Workspace to play back movies on a computer (P.421). Before launching the software for the first time, connect the camera to the computer.

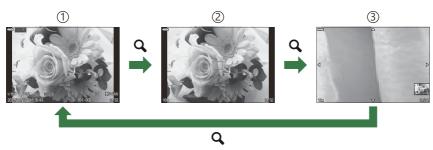
Finding Pictures Quickly (Index and Calendar Playback)

- In single-frame playback, rotate the rear dial to 🔁 for index playback. Rotate further for calendar playback.
- Turn the rear dial to $\bf Q$ to return to single-frame playback.



- 1) Single-frame playback
- 2 Index display
- (3) Calendar display

Zooming In (Playback Zoom)



- 1 Playback display
- (2)Zoom frame
- (3) Playback zoom scroll display

When you press a button to which [\mathbf{Q}] (magnify) has been assigned (P.330), a zoom frame will be displayed over the part of the picture that was in focus or the part where the subject was detected. Press the button again to zoom in on the zoom frame. You can scroll the image by pressing $\Delta \nabla \triangleleft \triangleright$ during playback zoom.

- You can change the settings of the zoom frame and image scroll. (*Choosing the information displayed during magnified playback (*Q Info Settings)" (P.328)
- You can change the zoom ratio using the rear dial.
- Press the **OK** button to end Magnify playback.
- Pressing the **INFO** button while the zoom frame is displayed moves the zoom frame to the detected face. During close-up playback, the detected face will be enlarged.

Playback Using Touch Controls

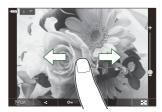
Use touch controls to zoom pictures in and out, scroll pictures, or choose the picture displayed.

- (?) Do not tap the display with your fingernails or other sharp objects.
- (?) Gloves or monitor covers may interfere with touch screen operation.

Full-frame playback

Displaying the previous or next image

• Slide your finger to the left to view the next image, and right to view the previous image.



Magnify

- Lightly tap the screen to display the slider and
 .
- Lightly tap the screen twice to magnify the image at the ratio specified in [Default Setting] (P.325).
- Slide the bar up or down to zoom in or out.



- Slide your finger to scroll the display when the picture is zoomed in.
- Tap 🖸 to display index playback. Tap 😇 for calendar playback.

Movie playback

• Tap **D** to begin playback.



- Tap the lower part of the screen to display the control bar which allows you to end playback and change the playback volume.
- Tap the center of the screen to pause playback. Tap again to resume playback.
- By sliding the bar at the bottom of the screen during playback pause, you can change the position from which the movie will be played when playback is resumed.
- Tap ☐ to end playback.

Index/Calendar playback

Displaying the previous or next page

• Slide your finger up to view the next page, and down to view the previous page.



- The touch control menu will be displayed when you tap during index playback. Tap to switch the number of images displayed. To switch the number of images displayed. Configuring the index display (Settings)" (P.329)
- Tap several times to return to single-frame playback.

Viewing images

• Tap an image to view it full frame.

Other functions

Lightly tap the screen during single-frame playback or tap during index playback to display the touch menu. You can then perform the desired operation by tapping the icons in the touch menu.

	Select an image. You can select multiple images and delete them collectively. "Selecting Multiple Pictures (Share Order Selected, Rating Selected, On, Erase Selected)" (P.310)
<	Images you want to share with a smartphone can be set. Selecting Pictures for Sharing (Share Order)" (P.306)
*	Assign rating stars to an image. Rating Pictures (Rating)" (P.308)
Отп	Protects an image. Protecting Pictures (On)" (P.301)

Setting playback functions

Rotating Pictures (Rotate)

Choose whether to rotate photographs.

- 1. Display an image you want to rotate and press the **OK** button.
 - The playback direct menu will be displayed.
- 2. Select [Rotate] and press the OK button.
- **3.** Press Δ to rotate the image counterclockwise, ∇ to rotate it clockwise; the image rotates each time the button is pressed.
 - Press the **OK** button to save changes and exit.
 - Movies and protected images cannot be rotated.

The camera can be configured to automatically rotate portrait-orientation pictures during playback.

"Automatically Rotating Portrait-Orientation Pictures for Playback (中)" (P.326)

[Rotate] is not available when [Off] is selected for [中].

Protecting Pictures (O¬¬)

Protect images from accidental deletion.

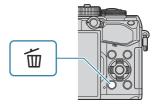
- **1.** Display the image you want to protect and press the Om button.
 - Protected images are marked with a Om ("protected") icon.
 Press the Om button again to cancel protection.



- When an unprotected image is displayed, you can hold the On button and rotate the front or rear dial to protect all images displayed while the dial is rotated. Any previously-protected images displayed while the dial is rotated will be unaffected.
- When a protected image is displayed, you can hold the On button and rotate the front
 or rear dial to remove protection from all images displayed while the dial is rotated. Any
 previously-unprotected images displayed while the dial is rotated will be unaffected.
- The same operations can be performed during playback zoom or when a picture is selected in the index display.
- **②** Formatting the card erases all data including protected images.

Deleting Pictures (Erase)

1. Display an image you want to delete and press the in button.



2. Highlight [Yes] and press the **OK** button.



- The image will be deleted.
- (Pyou can erase images without the confirmation step by changing the button settings.

 "Disabling Deletion Confirmation (Quick Erase)" (P.304)
- & You can choose whether deleting pictures recorded in RAW+JPEG image quality modes deletes both copies, only the JPEG copy, or only the RAW copy. RAW+JPEG Deletion Options (RAW+JPEG Erase)" (P.305)

Deleting All Pictures (Erase All)

Delete all pictures. Protected pictures will not be deleted. You can also exclude the pictures which have been assigned rating stars (P.308) and delete all other pictures.

<u>Menu</u>	
• MENU → ► → 1. File → Erase All	

Erase	Delete all pictures including those with rating stars assigned.
Save	Keep the pictures with rating stars assigned, and delete all other pictures.

① If you choose [Save] and execute [Erase All], it may take some time depending on the speed class of the card and the number of pictures on the card.

Disabling Deletion Confirmation (Quick Erase)

If this option is enabled when the $\tilde{\mathbf{m}}$ button is pressed to delete photos or movies, the camera will not display a confirmation dialog but will instead delete the images immediately.

Menu Menu	٦
• MENU → ≥ 2. Operations → Quick Erase	

Off	A confirmation dialog is displayed when the $\tilde{\mathbf{m}}$ button is pressed.
On	No confirmation dialog will be displayed when the $\hat{\mathbf{u}}$ button is pressed.

RAW+JPEG Deletion Options (RAW+JPEG Erase)

Choose operation performed when [RAW+JPEG] images are deleted.

<u>Menu</u>
• MENU → ▶ 2. Operations → RAW+ JPEG Erase

JPEG	Only the JPEG copy is deleted.	
RAW	Only the RAW copy is deleted.	
RAW+JPEG	Both the RAW and JPEG copies are deleted.	

[&]amp; Both the RAW and JPEG copies are deleted when [Erase All] (P.303) or [Erase Selected] (P.310) is selected.

Selecting Pictures for Sharing (Share Order)

You can select images you want to transfer to a smartphone in advance.

- **1.** Display an image you want to transfer and press the **OK** button.
 - The playback direct menu will be displayed.
- **2.** Select [Share Order] and press the OK button. Then, press \triangle or ∇ .
 - The image is marked for sharing. A \triangleleft icon and the file type will be displayed.
 - Up to 200 pictures can be marked for sharing.
 - To cancel a share order, press \triangle or ∇ .
- (?) A movie file whose file size exceeds 4GB cannot be marked for sharing.
- & You can select images you want to transfer in advance and set a share order all at once.
 - "Selecting Multiple Pictures (Share Order Selected, Rating Selected, On, Erase Selected)" (P.310), "Transferring images to a smartphone" (P.414)
- - When you hold the [<] button and rotate the front or rear dial, all images displayed while the dial is rotated will be marked for sharing. Any previously-marked images displayed while the dial is rotated will be unaffected.
 - When you hold the [<] button and rotate the front or rear dial while a marked image is displayed, all images displayed while the dial is rotated will be unmarked. Any unmarked images displayed while the dial is rotated will be unaffected.

Selecting RAW+JPEG Pictures for Sharing (RAW+JPEG <<) ■

In the case of pictures recorded with **[RAW+JPEG]** for image quality, you can choose to share only the JPEG copies, only the RAW copies, or both the JPEG and RAW copies.

<u>Menu</u>	
• MENU → ► → 2. Operations → RAW+JPEG <	

JPEG	Only the JPEG copies will be marked for sharing.	
RAW	Only the RAW copies will be marked for sharing.	
RAW+JPEG	Both RAW and JPEG copies will be marked for sharing.	

- ② Changing the option selected for [RAW+JPEG <] does not affect pictures already marked for sharing.</p>
- Regardless of the option selected, removing share marking removes the marking from both copies.

Rating Pictures (Rating)

Assign one to five rating stars to a picture.

This can be helpful when arranging and searching for pictures using OM Workspace or other utilities.

Button

★ button

If you press the \bigstar button when the selected picture has no rating stars assigned, rating stars will be assigned to the picture. The number of stars will be the same as the previously set number.

If you press the \bigstar button when the selected picture has rating stars assigned, rating stars will be cleared.

You can change the number of stars by rotating the front or rear dial while holding the \star button.

- (?) Rating stars can only be assigned to still images.
- ① If the picture was recorded with RAW+JPEG, the same rating will be applied to both the RAW and JPEG files.
- (?) Rating stars cannot be assigned to protected images.
- (?) Rating stars cannot be assigned to pictures that were taken with a different camera.

Selecting the numbers of stars to be used for rating (Rating Settings)

You can select the numbers of stars that will be displayed as options for rating.

Menu

- MENU → ▶ 3. Displays → Rating Settings
- **1.** Select the number of stars that you want to display as an option when rating pictures, and put a check (✓) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (\checkmark) next to it. To remove the check, press the **OK** button again.
- 9 When there is no item with a check (\checkmark) next to it, you cannot assign rating stars to pictures.
- ① Changing the settings of [Rating Settings] does not affect the ratings of pictures that have already been assigned.

Selecting Multiple Pictures (Share Order Selected, Rating Selected, On, Erase Selected)

You can select multiple images for [Share Order Selected], [Rating Selected], [O¬¬], or [Erase Selected].

- **1.** Select pictures by pressing the **☑** button during playback.
 - The image will be selected and

 will be displayed.
 Lock is released when you press the button again.
 - You can select an image during single-frame playback and index playback.
- Press the OK button to display the menu and select
 [Share Order Selected], [Rating Selected], [Om], or [Erase Selected].



- When an unmarked image is displayed, you can hold the 🗹 button and rotate the front or rear dial to select all images displayed while the dial is rotated. Any previously-marked images displayed while the dial is rotated will be unaffected.
- When a marked image is displayed, you can hold the 🗹 button and rotate the front or rear dial to deselect all images displayed while the dial is rotated. Any previously-unmarked images displayed while the dial is rotated will be unaffected.

Print order

You can save digital "print orders" to the memory card listing the pictures to be printed and the number of copies of each print. You can then have the pictures printed at a print shop that supports DPOF. Print order information (DPOF) is recorded on a memory card.

Configuring print orders

Menu	
• MENU → ► → 1. File → -	

Press ▷ to select a frame you want to add to the print order and then press ▷ to choose the number of prints. To set print reservations for several pictures, repeat this step. Press the OK button when all the desired pictures have been selected, and then select the date and time format.

[No]: The pictures are printed without the date and time.

[Date]: The pictures are printed with the shooting date.

[Time]: The pictures are printed with the shooting time.

Select this when you want to set print orders to all of the pictures. Select the date and time format.

[No]: The pictures are printed without the date and time.

[Date]: The pictures are printed with the shooting date.

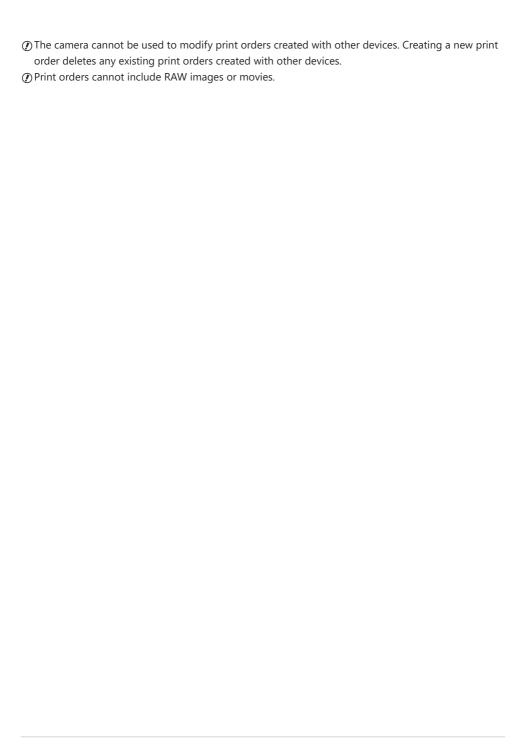
[Time]: The pictures are printed with the shooting time.

(1) When printing images, the setting cannot be changed between the images.

Setting print orders

Set	Print orders will be set. Settings will be reflected on the pictures saved on the currently selected card.
Cancel	Print orders will not be set.

311 Print order



312 Print order

Resetting all protection/share orders/print orders/ratings (Reset All Images)

You can reset all protection/share orders/print orders/ratings from pictures at once.

Menu • MENU → ▶ 1. File → Reset All Images	
• MENO - 1. File - Reset All Illiages	

Reset Print Orders	Resets all print orders.
Reset Protect	Resets all protection.
Reset share Order	Resets all share orders.
Reset Ratings	Resets all ratings.

(1) When there are a lot of rated pictures, [Reset Ratings] will take a long time.

Adding Audio to Pictures (\$\Psi\$)

You can record audio using the built-in stereo microphone or an optional external microphone and add it to pictures. The recorded audio provides a simple replacement for written notes about the pictures. Audio recordings can be up to 30 s long.

- 1. Display the image to which you want to add audio and press the **OK** button.
 - The playback direct menu will be displayed.
 - Audio recording is not available with protected images.
- **2.** Select $[\Psi]$ and press the **OK** button.



- **3.** Select [**№** Start] and press the **OK** button to begin recording.
 - To exit without adding audio, select [No].



- **4.** Press the **OK** button to end recording.
 - Pictures with audio are indicated by ightharpoonup icons and indicators showing the recording rate.
 - To delete recorded audio, select [Erase] in Step 3.

& Audio is recorded at the rate selected for movies. The rate can be selected using [Sound Recording Settings] (P.283).

Audio Playback

Playback begins automatically when a picture with audio is displayed. To adjust the volume:

- **1.** Display the picture whose audio you want to play back.
- **2.** Press \triangle or ∇ on the arrow pad.
 - Δ button: Raise volume.
 - ∇ button: Lower volume.



Retouching Pictures (Edit)

Create retouched copies of pictures. In the case of RAW pictures, you can adjust the settings in effect at the time the picture was taken, such as white balance and picture mode (art filters included). With JPEG pictures, you can make simple edits such as cropping and resizing.

RAW Data Edit	Retouch pictures and save the resulting copies in JPEG format (P.316). The following options are available: [Current]: Save the picture at the settings currently selected with the camera. [Custom1]/[Custom2]: Adjust settings while previewing the results in the display. The settings are saved as [Custom1] or [Custom2]. [ART BKT]: The camera creates multiple JPEG copies of each image, one for each art filter selected. Select one or more filters and apply them to one or more images.
JPEG Edit	Retouch JPEG pictures and save the resulting copies in JPEG format (P.318).

Retouching RAW Pictures (RAW Data Edit)

[RAW Data Edit] can be used to adjust the following settings.

- Image quality
- Picture mode
- Color/saturation (Color Creator)
- Color (Partial Color)
- White balance
- Color temperature
- Exposure compensation

- Shadows
- Mid-tones
- Highlights
- Aspect
- High ISO noise reduction
- Color space
- Keystone compensation

(P[Color Space] is fixed at [sRGB] when an art filter is selected for picture mode.

- (?) RAW pictures cannot be retouched if:
 - there is not enough space on the memory card, if the picture was created with a different camera, or in movie mode.

1. Display an image you want to edit and press the **OK** button.



- The playback direct menu will be displayed.
- **2.** Highlight [RAW Data Edit] using $\triangle \nabla$ and press the OK button.



- The editing menu will be displayed.
- **3.** Highlight items using $\Delta \nabla$.
 - To apply current camera settings, highlight [Current] and press the OK button. Current settings will be applied.
 - (PFor exposure compensation, the current settings will not be applied.
 - Highlight **[Yes]** using $\Delta \nabla$ and press the **OK** button to create a copy using the selected settings.
 - For [Custom1] or [Custom2], highlight the desired option and press \triangleright , then edit settings as follows:
 - Retouch options will be displayed. Highlight items using $\Delta \nabla$ and use $\Delta \triangleright$ to choose settings. Repeat until all the desired settings have been chosen. Press the \odot button to preview the results.



- Press the **OK** button to confirm the settings. The processing will be applied to the image.
- Highlight **[Yes]** using $\Delta \nabla$ and press the **OK** button to create a copy using the selected settings.
- Highlighting [ART BKT] and pressing
 \(\sim \) displays a list of art filters. Highlight art filters and press the OK button to select or deselect; selected filters are marked with a
 \(\sim \). Press the MENU button to return to the previous display once all the desired filters have been selected.
 - Press the **OK** button to record the image after processing with the selected art filter.

- **4.** To create additional copies from the same original, highlight [Reset] and press the **OK** button. To exit without creating more copies, highlight [No] and press the **OK** button.
 - Selecting [Reset] displays editing options. Repeat the process from Step 3.

Retouching JPEG Pictures (JPEG Edit)

[JPEG Edit] can be used to adjust the following settings.

Shadow Adj	Brighten back-lit subjects.	
Red-eye Fix	Reduce "red-eye" in pictures taken with a flash.	
#	Crop pictures. Size the crop with the front or rear dial and position it with $\Delta \nabla \triangleleft \triangleright$.	
Aspect	Change the aspect ratio from the standard 4:3 to [3:2] , [16:9] , [1:1] , or [3:4] . After choosing an aspect ratio, use $\Delta \nabla \triangleleft \triangleright$ to position the crop.	
Black & White	Create a black-and-white copy of the current picture.	
Sepia	Create a sepia copy of the current picture.	
Saturation	Adjust the vividness of colors. The results can be previewed in the display.	
Ä	Create a resized copy 1280×960 , 640×480 , or 320×240 pixels in size. Pictures with an aspect ratio other than the standard 4:3 are resized to dimensions as close as possible to the selected option.	
e-Portrait	e-Portrait Smooths the skin. Some images may not be retouched such as when faces cannot be detected.	

- (PRed-eye correction may not work depending on the image.
- JPEG pictures cannot be retouched if:
 - the image is processed on a PC, if there is not enough space in the memory card, or if an image is recorded on another camera.
- () Images cannot be made larger than the original size using []].
- The [] feature may not be available for some images.
- ② [井] and [Aspect] can only be used to edit images with an aspect ratio of 4:3 (standard).

1. Display an image you want to edit and press the **OK** button.



- The playback direct menu will be displayed.
- **2.** Highlight [JPEG Edit] using $\Delta \nabla$ and press the OK button.



- The editing menu will be displayed.
- **3.** Highlight an option using $\Delta \nabla$ and press the **OK** button.
 - The effect can be previewed in the display. If multiple options are listed for the selected item, use $\Delta \nabla$ to choose the desired option.

 - When **[Aspect]** is selected, you can select an option using $\Delta \nabla$, and then position the crop using $\Delta \nabla \triangleleft \triangleright$.



- **4.** Highlight [Yes] using $\Delta \nabla$ and press the **OK** button.
 - The new copy will be saved at the selected settings and the camera will return to the playback display.

Combining Pictures (Image Overlay)

Overlay existing RAW photos and to create a new picture. Up to 3 pictures can be included in the overlay.

The results can be modified by adjusting brightness (gain) separately for each picture.

- Overlays saved in RAW format can in turn be combined with other RAW images to create overlays containing 4 or more pictures.
- ① Image overlay is not available in movie mode.
 - **1.** Display an image you want to edit and press the **OK** button.
 - The playback direct menu will be displayed.
 - **2.** Highlight [Image Overlay] using $\Delta \nabla$ and press the **OK** button.
 - **3.** Select the number of images to be overlaid and press the **OK** button.
 - **4.** Highlight a RAW image to overlay using the $\triangle \nabla \triangleleft \triangleright$ buttons and press the **OK** button.
 - The ✓ icon will appear on the selected image. To remove the ✓ icon, press the **OK** button again.
 - The overlaid image will be displayed if images of the number specified in Step 3 are selected.
 - **5.** Adjust the gain for each of the images in the overlay.
 - Highlight images using the $\triangleleft \triangleright$ buttons and adjust gain using the $\triangle \nabla$ buttons.
 - Gain can be adjusted in the range 0.1 2.0. Check the results in the monitor.





- **6.** Press the **OK** button; a confirmation dialog will be displayed.
 - Highlight [Yes] and press the OK button.

Trimming movies (Movie Trimming)

Cut selected footage from movies. Movies can be trimmed repeatedly to create files containing only footage you want to preserve.

& This option is available only with movies recorded with the camera.

- 1. Display a movie you want to edit and press the **OK** button.
 - The playback direct menu will be displayed.
- 2. Select [Movie Edit] and press the OK button.
- **3.** Use $\Delta \nabla$ to select [Movie Trimming] and press the **OK** button.
 - You will be prompted to choose how you want to save the edited movie.

[New File]: Save the trimmed movie in a new file.

[Overwrite]: Overwrite the existing movie.

[No]: Exit without trimming the movie.

- If the movie is protected, you cannot select [Overwrite].
- 4. Highlight an option and press the **OK** button.
 - You will be presented with an edit display.
- **5**. Trim the movie.
 - Use the Δ button to skip to the first frame and the ∇ button to skip to the last frame.
 - Using the front or rear dial or the

 d button, highlight the first frame of the footage you
 want to delete and press the OK button.
 - Using the front or rear dial or the ▶ button, highlight the last frame of the footage you want to delete and press the **OK** button.
- 6. Highlight [Yes] and press the OK button.
 - The edited movie will be saved.
 - To select different footage, highlight [No] and press the OK button.
 - If you selected [Overwrite], you will be prompted to choose whether to trim additional
 footage from the movie. To trim additional footage, highlight [Continue] and press the OK
 button.

Creating Movie Stills (In-Movie Image Capture)

Save a still copy of a selected frame.

& This option is available only with [4K] movies recorded with the camera.

- 1. Display a movie you want to edit and press the **OK** button.
 - The playback direct menu will be displayed.
- Select [Movie Edit] and press the OK button.
- **3.** Use $\Delta \nabla$ to select [In-Movie Image Capture] and press the **OK** button.
- **4.** Use $\triangleleft \triangleright$ to select a frame to be saved as a still image and press the **OK** button.
 - The camera will save a still copy of the selected frame.
 - Use the Δ button to go back and the ∇ button to skip ahead. How much it goes back or skips ahead differ depending on the length of the movie.

Changing the role of the ◎ (☑) button during playback (▶ ◎ Function)

Choose the role played by the **③** (**☑**) button during playback.

Menu	
• MENU → ▶ ⇒ 2. Operations → ▶ ⊙ Function	

[<]: Create or modify a "share order" by marking pictures for upload to a smartphone.

[**☑**]: Select multiple pictures.

Changing the roles of the front and rear dials during playback (Dial Function)

Choose the roles performed by the front and rear dials.

Menu	
• MENU → ▶ 2. Operations → ▶ Dial Function	

■ Q (Index/Magnify)	Zoom in or out or switch to the index display during playback.
Prev/Next	View the next or previous image during playback.

Choosing the Playback Zoom Ratio (▶ Q Default Setting)

Choose the starting zoom ratio for playback zoom (close-up playback).

<u>Menu</u>	
• MENU → ▶ 2. Operations → ▶ Q Default Setting	

Recently	Zoom in to the most recently selected zoom ratio.	
Equally Value	Images are displayed at a zoom ratio of 1:1. The 1:1 icon appears in the monitor.	
×2 / ×3 / ×5 / ×7 / ×10 / ×14	Choose the starting zoom ratio.	

Automatically Rotating Portrait-Orientation Pictures for Playback ()

Choose whether pictures shot in portrait orientation are automatically rotated for display on the camera.

Menu	
• MENU → ► → 3. Displays → ←	

On	Pictures are automatically rotated for display during playback.
Off	Pictures are not automatically rotated for display during playback.

Choosing the information displayed during playback (Info Settings)

Choose the information displayed during playback. Pressing the **INFO** button during playback will switch the display between the selected displays.

Menu • MENU → □ → 3. Displays → □Info Settings

- **1.** Select the display type, and put a check (\checkmark) next to it.
 - Select an option using △∇ and press the OK button to put a check (✓) next to it. To remove the check, press the OK button again.

Image Only	Only the image is shown.
Basic	Minimum information is shown. Press ▷ to hide or show [♣] and [Highlight&Shadow].
Overall	Full information including the shooting conditions and histogram is shown (P.289).

The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

Choose the display when you magnify the picture by pressing a button to which [Q] (magnify) has been assigned (P.330).



- 1) Playback display
- (2)Zoom frame
- ③ Playback zoom scroll display

Menu

- MENU → ▶ → 3. Displays → ▶ Q Info Settings
- **1.** Select the display type, and put a check (\checkmark) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (\checkmark) next to it. To remove the check, press the **OK** button again.

Magnify Frame	Displays the zoom frame.
Magnify Scroll	Allows you to scroll the display during magnified playback.

① If you remove the checks from all options, you will not be able to magnify the image using a button to which [4] (magnify) has been assigned.

Configuring the index display (Settings)

You can change the number of frames to be displayed on the index display and whether to use the calendar display.

Menu

- 🗖 / 晉: MENU ⇒ 🗈 ⇒ 3. Displays ⇒ 🖼 Settings
- **1.** Select the display type, and put a check (\checkmark) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (\checkmark) next to it. To remove the check, press the **OK** button again.

□ 4/ □ 9/ □ 25/ □ 100	Choose the number of frames to be displayed on the index display.
Calendar	Pictures are displayed on a calendar.

Functions for Configuring Camera Controls

Changing the roles of buttons (Button Settings)

PASMB A

Other roles can be assigned to buttons in place of their existing functions.

The functions assigned using [Button Function] take effect in still photography mode. The functions assigned using [Button Function] take effect in movie mode.

Customizable Controls

laan	Icon Button	Default role	
icon		۵	82
	및 ③ button	(sequential shooting/self-timer)	Off
101	IOI button	Ol View Selection (switch monitor/viewfinder)	[EVF Auto Switch] by pressing and holding the button
СР	CP button	Computational Modes	Exposure Comp.
•	• button	© REC (movie recording)	
AF-ON	AF-ON button	AF-ON	
ISO	ISO button	ISO	
\$	Arrow pad	AF Area Select (AF area select)	

leen	Icon Button	Default role	
icon		۵	82
•	Arrow pad ▷ (right) ¹	MF (AF/MF toggle)	
•	Arrow pad ∇ (down) 1	WB (white balance)	
\$	Preview button	Preview	Magnify
L-Fn	Fn button on the lens	AF Stop	

¹ To use \triangleright and ∇ on the arrow pad in their assigned roles, select [**Direct Function**] for [\diamondsuit] (arrow pad).

Super control panel

• OK → Button Function / Button Function

Menu

- MENU → ❖ → 1. Operations → Button Settings → 🗖 Button Function
- **MENU** → \clubsuit → 1. Operations → Button Settings → \maltese Button Function
- **1.** Highlight a button to configure using the $\Delta \nabla$ buttons and press the **OK** button.
- **2.** Highlight a function to assign using the $\Delta \nabla \triangleleft \triangleright$ buttons and press the **OK** button.

Available Roles

" only": This role is only available in the [Button Function] menu.

" $\stackrel{\mbox{\tiny \prime}}{\square}$ only": This role is only available in the [$\stackrel{\mbox{\tiny \prime}}{\square}$ Button Function] menu.

¿ The options available vary from button to button.

Role	Function
Custom Mode C (C), Custom Mode C2–C4 (C2–C4)	Recall settings for the selected custom mode. Press the control once to recall saved settings, a second time to restore the settings previously in effect (P.86). The control continues to perform this function when a custom mode is selected with the mode dial.
• REC (movie recording)	The control functions as a movie-record button. Press to start or stop recording.
RAW ◀፡- (RAW image quality) (only)	If you press the button when [set to JPEG, it changes to RAW+JPEG. If it is set to RAW or RAW+JPEG, the setting does not change. You can also choose an image quality setting by holding the button and rotating a dial.
WB (WB) (white balance)	Adjust [WB] settings (P.235). Hold the control and rotate the front or rear dial. Alternatively, you can press the button to activate settings and then rotate the dials. Highlight settings using the front or rear dial or $\triangleleft \triangleright$.
(One-touch white balance)	Measure a value for one-touch white balance (P.238). To measure white balance during still photography, frame a reference object (a piece of white paper or the like) in the display, then press and hold the control and press the shutter button. A list of one-touch white balance options will be displayed, from which you can choose the location to which the new value will be saved. To measure white balance during movie recording, frame a reference object (a piece of white paper or the like) in the display and press the button. A list of one-touch white balance options will be displayed, from which you can choose the location to which the new value will be saved.
ISO	Adjust [ISO] or [ISO] settings (P.175). Hold the control and rotate the front or rear dial. Alternatively, you can press the button to activate settings and then rotate the dials. Highlight settings using the front or rear dial or \triangleleft .

Role	Function	
	Adjust exposure settings. Hold the control and rotate the front or rear dial. Alternatively, you can press the button to activate settings and then rotate the dials. The adjustments available vary with the shooting mode:	
	[P] : Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for program shift.	
	[A]: Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for aperture.	
Exposure Comp. (2	[S] : Use the front or rear dial or $\triangleleft \triangleright$ for exposure compensation. Use the $\triangle \nabla$ buttons for shutter speed.	
	[M]: Use the rear dial or $\Delta \nabla$ for shutter speed. Use the front dial or the $\Delta \nabla$ buttons for aperture. For information on adjusting exposure settings when [Auto] is selected for [○ ISO] (P.175) or [○ ISO] (P.175), see "Adjusting Exposure Compensation" (P.162).	
	[B] : Use rear dial or $\Delta \nabla$ to switch between bulb/time and live composite photography. Use the front dial or the $\triangleleft \triangleright$ buttons for aperture.	
AEL (AE lock)	Press the button to lock exposure. Press again to release it.	
Flicker Scan (Flicker Scan)	Adjust settings for [Flicker Scan] (P.166). Press the control to select [On]. You can adjust shutter speed for best results while viewing banding in the display. Press the control again to display shooting information and access other settings. Press and hold the control to select [Off] for [Flicker Scan].	
S (sequential shooting/self-timer)	Choose a drive (sequential shooting/self-timer) mode (P.199). Press the button to display drive mode options. Set a drive (sequential shooting/self-timer) mode using the front or rear dial or the ⊲⊳ buttons.	
IS Mode (IS)	Toggle [Image Stabilizer] on or off (P.213). Press once to select [Off] and again to turn image stabilization on. Hold the control and rotate the front or rear dial to access [Image Stabilizer] options.	
Computational Modes (CP) (Computational)	Toggle roles of the CP (Computational Modes) button (P.340). Press the button to turn on the last used Computational Modes. Hold the button and rotate the front or rear dial to change the settings for Computational Modes or switch to other Computational Modes.	

Role	Function
High Res Shot () (♠ only)	Pressing the button when [Off] is selected for [High Res Shot] selects the setting selected under [High Res Shot] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [High Res Shot] , hold the button and rotate the front or rear dial.
Live ND Shooting (ND) (only)	Enable the live ND filter (P.249). Press once to enable [Live ND Shooting]. Press again to disable. Hold the button and rotate the front or rear dial to adjust [ND Number] settings.
Focus Stacking (only)	Toggle [Focus Stacking] [On] or [Off]. To choose an option for [Focus Stacking], press and hold the button.
HDR (♠ only)	Enable HDR (P.255). Press once to enable HDR. Press again to disable. Press and hold the button and rotate the front or rear dial to adjust [HDR] settings.
Multiple Exposure (□) (□ only)	Toggle [Multiple Exposure] [On] or [Off]. To choose an option for [Multiple Exposure], press and hold the button.
Digital Tele-converter (□: Q.2x / ஹ: Q.1.4x)	Turn the digital teleconverter on or off (P.261). Press once to zoom in and again to zoom out. You can turn it on/off even when you are recording a movie. During movie recording, a frame indicating the area that will be magnified by the digital teleconverter is displayed.
Keystone Comp. (∰) (only)	Press the control to view keystone compensation settings (P.266). After adjusting settings, press the control again to exit. To cancel keystone compensation, press and hold the control.
Fisheye Compensation (国) (ロ only)	Enable fisheye correction (P.268). Press once to enable fisheye correction. Press again to disable. Hold the button and rotate the front or rear dial to choose from [Angle] options 1, 2, and 3.
AE BKT (only)	Pressing the button when [Off] is selected for [AE BKT] selects the setting selected under [AE BKT] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [AE BKT] , hold the button and rotate the front or rear dial.

Role	Function
WB BKT (only)	Pressing the button when [Off] is selected for [WB BKT] selects the setting selected under [WB BKT] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [WB BKT] , hold the button and rotate the front or rear dial.
FL BKT (only)	Pressing the button when [Off] is selected for [FL BKT] selects the setting selected under [FL BKT] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [FL BKT] , hold the button and rotate the front or rear dial.
ISO BKT (only)	Pressing the button when [Off] is selected for [ISO BKT] selects the setting selected under [ISO BKT] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [ISO BKT] , hold the button and rotate the front or rear dial.
ART BKT (only)	Toggle [ART BKT] [On] or [Off]. To choose an option for [ART BKT], press and hold the button.
Focus BKT (only)	Toggle [Focus BKT] [On] or [Off]. To choose an option for [Focus BKT], press and hold the button.
AF-ON	The camera focuses with autofocus while the button is pressed (P.126). The camera stops focusing when the button is released.
MF (ME) (AF/MF toggle)	Switch between AF and MF. Press once to select MF and again to return to the previous mode. The focus mode can also be selected by holding the button and rotating a dial.
Preset MF (Pre MF)	Set [AF Mode] to [Pre ME] (P.110) Press the control once to enable preset MF and again to restore the previous focus mode. Alternatively, you can choose the [AF Mode] by holding the control and rotating a dial.
⊕ Face Selection (□)	Select the face used for focus when the camera detects multiple faces. Press the button to select a face closer to the set AF target point. When the AF target mode is set to [IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Role	Function
Face & Eye Detection	Pressing the button when [Off] is selected for [Face & Eye Detection] selects the setting selected under [Face & Eye Detection] . If an option other than [Off] is selected, pressing the button selects [Off] . To choose an option for [Face & Eye Detection] , hold the button and rotate the front or rear dial.
AF Limiter (AFLimit) (only)	Enable the [AF Limiter] (P.138). Press once to enable [AF Limiter] . Press again to disable. Hold the button and rotate the front or rear dial to choose from three stored settings.
AF Area Select ([·:·]) (AF area select)	Configure AF Target Mode (P.116) and AF Target Point (P.115). Press the control to view the AF target selection display. Use the front or rear dial to choose AF target mode and the arrow pad to position the AF target. You can choose the controls used for this operation. "AF Target Selection ([:::]Select Screen Settings)" (P.149)
[-:-]Home ([-:-]HP) (AF home position) (only)	Recall previously-saved [AF Target Mode], and [AF Target Point] "home position" settings. Home position settings are saved using [
Peaking (Peak)	Toggle focus peaking on or off (P.155). Press the control once to turn peaking on and again to turn it off. When peaking is on, peaking options (color, amount) can be displayed by pressing the INFO button.
Focus Ring Lock (①®)	Press the control once to disable, and again to enable, the lens focus ring. This option is available when [S-AFME], [C-AFME], [ME], [C-AF+TRME], [PreME], or [AFMME] is selected for [AF Mode]. The ME portion of the AF mode indicator is displayed gray while the ring is disabled. In the case of lenses equipped with an MF (manual focus) clutch, pressing the button has no effect when the focus ring is in the MF position (closer to the camera body). Focus ring lock ends when you perform an operation such as turning the camera off or attaching a different lens.

Role	Function
Magnify (\mathbf{Q})	Press the control once to display the zoom frame and again to zoom in (P.121). Press the control a third time to exit zoom; to hide the zoom frame, press and hold the control. Use touch controls or $\Delta \nabla \triangleleft \triangleright$ to position the zoom frame.
Preview (©) (only)	Stop aperture down to the selected value. This lets you preview depth of field. Aperture stops down to the currently-selected value while the button is pressed. Preview options can be selected using [CLock] (P.353).
Night Vision (Night LV) (only)	Pressing the button when [Off] is selected for [On] Night Vision (P.355) selects [On] . If [On] is selected, pressing the button selects [Off] .
Level Disp	Display the digital level gauge. The exposure bar display in the viewfinder functions as a level gauge. Press the control again to exit. This option takes effect when [Style 1] or [Style 2] is selected for [EVF Style] (P.359).
Ol View Selection (IOI) (switch monitor/ viewfinder)	Switch between viewfinder photography and live view. If [Off] is selected for [EVF Auto Switch] (P.388), the display will switch between the viewfinder and the monitor. Press and hold the control to display [EVF Auto Switch] options.
Lens Info Settings (Exif Lens)	Recall previously-saved lens data (P.380). Recall saved data for the current lens after changing lenses or the like.
Multi Function (Multi Fn) (Multi-Function)	Configure the control for use as a multi-function button (P.339). Hold the control and rotate the front or rear dial to choose the function performed. The selected function can be performed by pressing the control.
Test Picture (Test) (only)	Take a test shot. You can view the effects of selected settings in an actual photograph. If you keep the control pressed while pressing the shutter button, you will be able to view the results but the picture will not be saved to the memory card.

Role	Function
Direct Function (☑/[:::]/▶/▼)	Assign roles to the buttons on the arrow pad ($\triangle \nabla \triangleleft \triangleright$). The following roles can be assigned: \triangleleft button: [::-] (AF-target selection) \triangle button: \boxtimes (exposure compensation) \triangleright button: MF toggle (AF/MF toggle) \vee button: WB (white balance) • The \triangleright and ∇ buttons can be assigned other functions.
Flash Mode (\$\frac{1}{4}) (only)	Adjust flash settings (P.189). Press once to display flash options and again select the highlighted option and exit. Highlight settings using the front or rear dial or ⊲▷. ② This function can be assigned to the ▷ and ▽ buttons only. You must first set [♣) to [Direct Function].
Electronic Zoom (W↔T)	Zoom power zoom lenses in or out. After pressing the control, use the arrow pad to zoom in or out. Use △ or ▷ to zoom in and ∇ or ⊲ to zoom out. ① This function can be assigned to the ▷ and ∇ buttons only. You must first set [♣) to [Direct Function].
Lock (U) (touch control lock)	Lock touch controls. Press and hold the button once to lock touch controls and again to unlock. ① This function can be assigned to the ▷ and ▽ buttons only. You must first set [・‡・] to [Direct Function].
AF Stop (AF Stop)	Suspend autofocus. Focus locks and autofocus is suspended while the control is pressed. Applies only to the lens L-Fn button.
Fa ⇔ View Assist (BT.709) (♀ only)	Toggle [♣♠ Wiew Assist] [On] or [Off] . Settings can also be changed when recording movies.
C-AF when ℚ (ℚC-AF) (♀ only)	Toggle [C-AF when] (P.132) [Yes] or [No]. Settings can also be changed when recording movies.
Off	The control is not used.

Using multi-function options (Multi Function)

Assign multiple roles to a single button.

To use the multi-function feature, you must first assign [Multi Function] to a camera control.
 "Customizable Controls" (P.330)

Choosing a function

 Hold the button to which [Multi Function] is assigned and rotate the front or rear dial.



- Rotate the dial until the desired feature is highlighted. Release the button to select the highlighted feature.
- **2.** Press the button to which [Multi Function] is assigned.
- 3. Adjust settings.

The [Multi Function] button can be used for:

	Highlight&Shadow Control	Change the setting using the front and rear dials. Press the INFO button to change the area (highlight, shadow, midtone) to be configured.				
3	Color Creator	Use the front dial to adjust hue and the rear dial to adjust saturation.				
ISO	ISO	Change the setting using the front and rear diale				
WB	WB	Change the setting using the front and rear dials.				
Q	Magnify	A zoom frame will be displayed.				

	Image Aspect	Change the setting using the front and rear dials.
Peak	Peaking	Turns on and off with each press of the button.

[Highlight&Shadow Control] can also be configured by following operations.

- During shooting, press the button to which (Exposure compensation) is assigned and then press the **INFO** button.
- After pressing **OK** on the shooting display, select **[Exposure Comp./**□**]** on the super control panel (P.104) and press **OK**.

Using the CP button (Computational Modes)

Press the button to turn on the last used Computational Modes. Hold the button and rotate the front or rear dial to change the settings for Computational Modes or switch to other Computational Modes.

Switch Computational Modes/Settings

- 1. Press the **CP** button and rotate the front dial or rear dial.
 - Rotate the dial until the desired Computational Mode/ Setting is highlighted. Select the highlighted feature and release the button.
 - Select [Off] to exit Computational Modes and return to normal shooting.



2. You can photograph with the selected Computational Mode and setting.

Turn on or off Computational Modes

The operations when the **CP** button is pressed are listed below. The last used Computational Mode is recalled.

■ ! /	High Res Shot	Turns on and off with each press of the button.
ND2-ND16	Live ND Shooting	Turns on and off with each press of the button.
Ð	Focus Stacking	Turns on and off with each press of the button. To choose an option for [Focus Stacking] , press and hold the button.
HDR1/HDR2	HDR	Turns on and off with each press of the button.
	Multiple Exposure	Turns on and off with each press of the button. To choose an option for [Multiple Exposure] , press and hold the button.

Recording a movie by pressing the shutter button (Shutter Function)

Configure the shutter button as a (movie) button in movie mode.

Menu	7
• MENU → ❖ → 1. Operations → Button Settings → 紹 Shutter Function	

Off	The shutter button cannot be used to record movies.
⊚ REC	Press the shutter button all the way down to start or stop movie recording.

Setting the display when pressing the OK button (Setting screen opened by **OK**)

Set whether to display or hide each operation screen accessed by pressing the **OK** button in the shooting standby screen.

Menu • MENU → ❖ → 1. Operations → Button Settings → Setting screen opened by OK

AUTO	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark) next to it. To remove the check, press the OK button again. [Live Guide]/[Live SCP]
ART	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark) next to it. To remove the check, press the OK button again. [Art Menu]/[Live SCP]
SCN	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark) next to it. To remove the check, press the OK button again. [Scene Menu]/[Live SCP]

Assigning Roles to the Front and Rear Dials (\square Dial Function / \square Dial Function)

PASMB PA

Choose the roles performed by the front and rear dials.

Menu

- MENU → 🌣 → 1. Operations → Dial Settings → 🗖 Dial Function
- MENU → 🌣 → 1. Operations → Dial Settings → 🛱 Dial Function
- **1.** Highlight an option and press the **OK** button.
 - Choose a dial using the $\triangleleft \triangleright$ buttons and use the $\triangle \nabla$ buttons to choose a role.
 - Press the **INFO** button to move between lever positions.
 - Press the **OK** button when settings are complete.

When [Fn Lever Function] / [Fn Lever Function] is set to a setting other than [mode1], the functions assigned to lever 1 is enabled even if the lever is in position 2.

The functions that can be assigned in [Dial Function] are listed below.

Role	Function	Shooting mode				
		Р	Α	S	M/B	
Program Shift (Ps)	Configure program shift (P.58).	✓	_	_	_	
Shutter Speed (Shutter)	Choose the shutter speed.	_	_	✓	√ 1	
Aperture Value (FNo)	Adjust aperture.	_	✓	_	✓	
Exposure Comp. ()	Adjust exposure compensation.	✓	✓	✓	√ 2	
Flash Exposure Comp. (22)	Adjust flash exposure compensation.	✓	✓	✓	✓	
ISO	Adjust ISO sensitivity.	✓	✓	✓	✓	

Role	Function	Shooting mode				
		Р	Α	S	M/B	
WB (WB)	Adjust white balance.	✓	✓	✓	✓	
CWB Kelvin (CWB Kelvin)	Adjust the color temperature when CWB (Custom WB) is selected for white balance.	✓	✓	✓	~	
Off	None.	✓	✓	✓	✓	

¹ Switch between Bulb, Time, and Live Comp when the mode dial is set to **B**.

& When the mode dial is set to ART, conform to the settings for [P].

The functions that can be assigned in [Dial Function] are listed below.

Role	Function	₩ Mode (movie exposure mode)			node)
		P A S M			
Shutter Speed (Shutter)	Choose the shutter speed.	_	_	✓	✓
Aperture Value (FNo)	Adjust aperture.	_	✓	_	✓
Exposure Comp. ()	Adjust exposure compensation.	✓	✓	✓	✓
ISO	Adjust ISO sensitivity.	✓	✓	✓	✓
WB (WB)	Adjust white balance.	✓	✓	✓	✓
CWB Kelvin (CWB Kelvin)	Adjust the color temperature when CWB (Custom WB) is selected for white balance.	✓	✓	~	✓
Sound Recording Level (♥Vol)	Adjust the recording volume.	✓	✓	✓	✓
Off	None.	✓	✓	✓	✓

² Not available if the mode dial is set to **B**.

Changing the Dial Direction (Dial Direction)

PASMB PA

Choose the direction in which the dials are rotated to set exposure.

<u>Menu</u>	1
• MENU → ❖ → 1. Operations → Dial Settings → Dial Direction	

Exposure	Choose the direction the dials are rotated to set aperture and shutter speed in A , S , M , and B modes.
Ps	Choose the direction the dials are rotated for program shift (mode P).

Customizing the Fn Lever (Fn Lever Settings)

PASMB A

Menu

• MENU → ❖ → 1. Operations → Fn Lever Settings

How to configure the Fn lever

☐ Fn Lever Function	Choose the role played by the Fn lever in still photography mode. The Fn lever can be used to choose the roles of the front and rear dials or to recall focus settings. It can also be used to select movie mode.
≅ Fn Lever Function	Choose the role played by the Fn lever in movie mode. The Fn lever can be used to choose the roles of the front and rear dials or to recall focus settings.
Fn Lever/Power Lever	The Fn lever can be used as an on/off lever. Use this feature if you would like to use your right hand to turn the camera on or off during shooting.

1. Select [Fn Lever Function] on the [Fn Lever Settings] screen and press the **OK** button.



Fn Lever Function screen

Off	Changing the position of the Fn lever has no effect.	
mode1	Switch the functions of the front and rear dials by changing the position of the Fn lever. The functions for Positions 1 and 2 conform to the setting selected for Dial Function (P.344).	
	Switch between two groups of settings previously selected for [AF Mode], [AF Target Mode], and [AF Target Point].	
	Press the INFO button while [mode2] is selected, and put a check (✓) next to the function switched using the Fn lever. mode2 AF Mode AF Target Mode AF Target Point	
mode2		
	To remove the check, press the OK button again.	
	[AF Mode]: S-AF, C-AF, etc.	
	[AF Target Mode]: [•]Single-S, []All, etc.	
	[AF Target Point]: AF-target position	
mode3	Switch the shooting mode by changing the position of the $\bf Fn$ lever. You can switch the shooting mode to $\bf \Omega$ (movie) without rotating the mode dial.	

- When set to [mode3], the [Fn Lever Function] (P.349) cannot be used.
- $\ensuremath{\textcircled{\textbf{T}}} \text{This function cannot be used in the following cases.}$
 - [Fn Lever/Power Lever] (P.350) is set to [ON/OFF] or [OFF/ON].

Configuring [Fn Lever Function]

1. Select [Fn Lever Function] on the [Fn Lever Settings] screen and press the **OK** button.



Fn Lever Function screen

Off	Changing the position of the Fn lever has no effect.	
mode1	Switch the functions of the front and rear dials by changing the position of the Fn lever. The functions for Positions 1 and 2 conform to the setting selected for [PDial Function] (P.344).	
Switch between two groups of settings previously selected for [AF Mode], [AF Target Mode], and [AF Target Point].		
	Press the INFO button while [mode2] is selected, and put a check (✓) next to the function switched using the Fn lever. mode2 AF Mode ✓ AF Target Mode ✓ AF Target Point	
mode2	±10 ≤2 UEEU €	
	To remove the check, press the OK button again.	
	[AF Mode]: S-AF, C-AF, etc.	
	[AF Target Mode]: [•]Single, [IIII]All, etc.	
	[AF Target Point]: AF-target position	

- This function cannot be used in the following cases.
 - [mode3] is selected for [Fn Lever Function] (P.348).
 - [Fn Lever/Power Lever] (P.350) is set to [ON/OFF] or [OFF/ON].

Configuring [Fn Lever/Power Lever]

1. Select [Fn Lever/Power Lever] on the [Fn Lever Settings] screen and press the **OK** button.





① The ON/OFF lever cannot be used to turn the camera off when [ON/OFF] or [OFF/ON] is selected. [☐ Fn Lever Function] and [☐ Fn Lever Function] are similarly unavailable.

Power Zoom Lenses (Electronic Zoom Settings)

PASMB A

Choose the speed at which power zoom lenses zoom in or out when the zoom ring is rotated. Adjust zoom speed if it is so quick that you find it hard to frame your subject.

Menu • MENU → ☆ → 1. Operations → Electronic Zoom Settings

© Elec. Zoom Speed	Set the zoom speed for still photography mode. [Low]: Slow zoom. A good choice when precise adjustments are needed. [Normal]: Normal zoom speed. [High]: Fast zoom.
≌ Elec. Zoom Speed	Set the zoom speed for movie mode. [Low]: Slow zoom. A good choice when precise adjustments are needed. [Normal]: Normal zoom speed. [High]: Fast zoom.

Although the same options are displayed for still photography and movie mode, the actual zoom speeds differ.

Choosing What Happens When the Shutter Button Is Pressed During Live View Zoom (LV Close Up Mode)

PASMB PA

Choose display options for use with focus zoom.

Menu

• MENU → 🌣 → 2. Operations → LV Close Up Mode

& For information on live view zoom options, see the explanation on "Zoom frame AF/Zoom AF (Super Spot AF)" (P.121).

	Choose what happens if the shutter button is pressed halfway during focus zoom.
LV Close Up Mode	[mode1]: Focus zoom ends. You can check the composition after focusing using focus zoom.
	[mode2]: Focus zoom remains in effect while the camera focuses. Compose the shot before focusing, then zoom in for precise focus and take a picture without ever ending zoom.

Choosing the Behavior of the Control Used for Depth-of-Field Preview (\$\sigma\$Lock)

PASMB P



Choose the behavior of the control used for depth-of-field preview.

Menu

- Before you will be able to use Super Spot AF, you must use [Button Function] (P.330) to assign [Preview] to a camera control in advance.

Choose the behavior of the control used for depth-of-field preview.

© Lock

[Off]: Aperture stops down while the control is pressed.

[On]: Aperture stops down when the control is pressed; to end depth-of-field preview, press the control a second time.

Button Hold Options (Press-and-hold Time)

PASMB #

Choose how long buttons must be pressed to perform resets and other similar functions for various features. For ease of use, button hold times can be set separately for different features.

Menu

• MENU → ❖ → 2. Operations → Press-and-hold Time

Set the button hold time for each function.

[0.5sec] - [3.0sec]

The functions that allows you to set press-and-hold time are listed below:

- Fnd IVQ
- Reset IVQ Frame
- Reset 🗷
- Reset 😾
- Reset ₩B₺
- Reset ✓
- Reset 🕲
- Reset [...]
- Call EVF Auto Switch

- Fnd ₩
- Reset ##
- Switch 🖪 Lock
- End Flicker Scan
- Call WB BKT Setting
- Call ART BKT Setting
- Call Focus BKT Setting
- Call D Setting
- Call 🖾 Setting

Functions for adjusting the live view display

Making the display easier to see in dark places (Night Vision)

PASMB P



Increase brightness of the display to make it easier to see in dark places.

Menu		
• MENU →	❖ → 3. Live View →	Night Vision

Off	Normal display.
On	Brightness is adjusted for ease of viewing. The brightness and colors of the preview differs from the final photograph.

• "Night LV" appears on the display when [On] is selected.

Art Filter Preview (Art LV Mode)

PASMB A

You can preview the effects of art filters in the monitor or viewfinder during shooting. Some filters may cause subject movement to appear jerky, but this can be minimized so as to not influence photography.

Menu Menu	٦
• MENU → 🌣 → 3. Live View → Art LV Mode	

mode1	The effects of art filters can be previewed during shooting.
mode2	While the shutter button is pressed halfway, the camera gives priority to maintaining the display rate and reduces the effects of art filters on the preview display. Motion is smooth.

Reducing Flicker in Live View (Anti-Flicker LV)

PASMB A



Reduce flicker under fluorescent lighting and the like. Choose this option if flicker makes the display difficult to view.

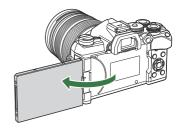
Menu		
• MENU → 🌣	→ 3. Live View →	Anti-Flicker LV

Auto	The camera detects and reduces flicker.		
50Hz	Reduce flicker under workplace or outdoor lighting powered by alternating current with a frequency of 50 Hz.		
60Hz	Reduce flicker under workplace or outdoor lighting powered by alternating current with a frequency of 60 Hz.		
Off	Flicker reduction off. Solution is not available when [On] is selected for [Anti-Flicker Shooting] (P.212).		

Selfie Assist (Selfie Assist)

PASMB

Choose the display used when the monitor is reversed for self-portraits.



Menu

• MENU → ❖ → 3. Live View → Selfie Assist

Off	The display does not change when the monitor is reversed.
On	When reversed for self-portraits, the monitor shows a mirror image of the view through the lens.

Functions for configuring information display

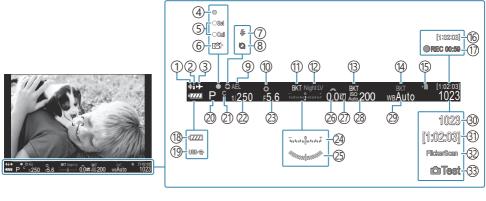
Selecting the display style of the viewfinder (EVF Style)

PASMB A

<u>Menu</u>	
• MENU → ❖ → 4. Information → EVF Style	

Style 1/ Style 2	Similar to film camera viewfinder displays.	To real
Style 3	The same as the monitor display.	1023 Internal 1 250 F5.6 1 0.0 2200 mAuto 1023

Viewfinder display when shooting using the viewfinder (Style 1/ Style 2)



- 1) Active **Bluetooth** ® connection (P.411, P.428)
- (2) Remote control (P.428)
- (3) Airplane Mode (P.406)
- (4) AF confirmation mark (P.50)
- 5 SET/CALL function (P.442)
- 6 Dust reduction (P.455)
- 7 Flash (blinks: charging in progress, lights up: charging completed) (P.184)
- (8) Pro Capture active (P.209)
- (9) AE Lock (P.169)
- 10 Preview (P.353)
- (11) AE BKT (P.273)
- 12 Night Vision (P.355)
- (13) ISO BKT (P.277)
- (14) WB BKT (P.275)
- (15) Card write indicator (P.28, P.33)
- (16) Available Recording Time (P.511)
- (17) Recording time (displayed during recording) (P.90)

- (18) Battery level (P.37)
- (19) Power supply (P.426)
- 20 Shooting Mode (P.56)
- 21) Custom Mode (P.84)
- 22) Shutter Speed (P.56, P.61)
- 23) Aperture Value (P.56, P.59)
- 24 Exposure compensation (P.161)
- 25) Level Gauge 1 (P.365)
- 26 Exposure compensation value (P.161)
- (27) Highlight & Shadow Control (P.339)
- 28 ISO sensitivity (P.175)
- 29 White balance (P.235)
- 30 Number of storable still pictures (P.509)
- (P.511) Available Recording Time
- 32) Flicker Scan (P.166)
- 33 Test Picture (P.332)

1 Displayed while the shutter button is pressed halfway. [Level Gauge] (P.365)

Shooting Indicators (Info Settings / Info Settings)

PASMB #

Choose the indicators listed in the live view display.

You can display or hide shooting setting indicators. Use this option to choose the icons that appear in the display.

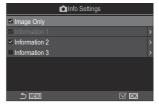
You can configure three sets of display settings for still photography mode and two sets for movie mode.

Menu

- MENU → ❖ → 4. Information → ☐ Info Settings
- MENU → ❖ → 4. Information → \(\mathbb{P} \) Info Settings

Configuring Info Settings

- **1.** Select an indicator you wish to display when the **INFO** button is pressed, and put a check (✓) next to it.
 - Select an option using △∇ and press the **OK** button to put a check (✓) next to it.
 To remove the check, press the **OK** button again.



Info Settings setting screen

Image Only	No information will be displayed.
Information 1	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark)
Information 2	next to it. To remove the check, press the OK button again.
Information 3	To set the details of an item to be displayed, press . The following ite can be set. [[Highlight&Shadow] / [Level Gauge] / [Silent Operation]

☼-The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

Configuring Plnfo Settings

- **1.** Select an indicator you wish to display when the **INFO** button is pressed, and put a check (✓) next to it.
 - Select an option using $\Delta \nabla$ and press the **OK** button to put a check (\checkmark) next to it.

 To remove the check, press the **OK** button again.



₽ Info Settings setting screen

Image Only	No information will be displayed.
Information 1	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark) next to it. To remove the check, press the OK button again. To set the details of an item to be displayed, press \triangleright . The following items
Information 2	can be set.
2	[Level Gauge] / [Image Stabilizer] / [Picture Mode] / [WB] / [AF Mode] / [Face & Eye Detection] / [Sound Recording Level Meter] / [Time Code] / [Silent Operation] / [Grid]

The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

Choosing a Display

Press the **INFO** button during shooting to cycle through the selected displays. Switching the information display" (P.47)

Configuring the display for when the shutter button is pressed halfway (Info by halfpressing —)



You can configure the display for when the shutter button is pressed halfway.

Menu	
• MENU → ❖ → 4. Information → Info by half-pressing =	

Off	No information is displayed while the shutter button is pressed halfway.
On1	Only the following exposure-related items are displayed while the shutter button is pressed halfway. • Shutter speed • Aperture • Reset Exposure Compensation • Difference from optimal exposure • ISO sensitivity
On2	The display does not change even when the shutter button is pressed halfway.

PASMB P

Choose the information that can be viewed by pressing the **INFO** button in the viewfinder display. Just as you can with the monitor, you can display a histogram or level gauge in the viewfinder by pressing the **INFO** button. This item is used to choose the types of display available. This option takes effect when **[Style 1**] or **[Style 2**] is selected for **[EVF Style]** (P.359) in still photography mode. The option selected for **[Style 1**] **Option Settings** (P.362) takes effect in movie mode.

Menu • MENU → ❖ → 4. Information → □ □ Info Settings

- **1.** Select an indicator you wish to display when the **INFO** button is pressed, and put a check (✓) next to it.
 - Select an option using △ ▽ and press the OK button to put a check (✓) next to it.
 To remove the check, press the OK button again.



Info Settings setting

Image Only	No information will be displayed.
Information 1	Select an option using $\Delta \nabla$ and press the OK button to put a check (\checkmark)
Information 2	next to it. To remove the check, press the OK button again. To set the details of an item to be displayed, press > . The following items
Information 3	can be set. [A histogram superimposed on the display in the viewfinder. [Highlight&Shadow]: Tints applied to over- and under-exposed areas. [Level Gauge]: The level gauge.

^{☼-}The set that is currently in use cannot be disabled, but the items to be displayed can be configured.

Displaying the Level Gauge when the shutter button is pressed halfway (Level Gauge)

PASMB A

Choose whether the level gauge can be displayed in the viewfinder by pressing the shutter button halfway when [Style 1] or [Style 2] is selected for [EVF Style] (P.359).



Display when shutter button is pressed halfway

Menu

• MENU → ❖ → 4. Information → 🖃 = Level Gauge

On The level gauge is displayed in the viewfinder while the shutter button is pressed halfway. The level gauge appears in place of the exposure bar.

Off The level gauge is not displayed.

Framing Guide Options (Grid Settings / Grid Settings)

PASMB

Menu

- MENU → 🌣 → 5. Grid/Other Displays → 🗖 Grid Settings
- MENU → ❖ → 5. Grid/Other Displays → 🛱 Grid Settings

Display Color	Choose the displayed color. [Preset 1]: The settings of [Color of Preset 1] are used. [Preset 2]: The settings of [Color of Preset 2] are used.
Exclusive for 윤 ([윤Grid Settings] only)	Choose whether to use a movie-exclusive setting when displaying guides in movie mode. [Off]: Use the same setting as when in still photography mode. [On]: Use the settings dedicated to movie mode.
Displayed Grid	Select the type of guides displayed. Choose from: [Off] / [⊞] / [⊞] / [⊞] / [⊡] / [□] / [□] ([□] Grid Settings] only) • When [□] is selected, the guides are adjusted for a 16:9 movie frame when movies are shot in still photography mode. Depending on the option selected for [♀ ◄:-], the guides may be displayed with an aspect ratio of 17:9.
Color of Preset 1	[R]: Increase the number to emphasize the red tint.
Color of Preset 2	[G]: Increase the number to emphasize the green tint.[B]: Increase the number to emphasize the blue tint.[α]: Increase the number to make the color of the guides deeper.

The guides configured here are not displayed during focus stacking (P.252).

The settings made here are also used when [Style 3] is selected for [EVF Style].

Viewfinder Framing Grid Options (Grid Settings)

PASMB P

Choose whether to display a framing grid in the viewfinder. You can also choose guide color and type. This option takes effect when [Style 1] or [Style 2] is selected for [EVF Style] in still photography mode. The option selected for [Info Settings] (P.362) takes effect in movie mode.

Menu Total Control of the Control of	
• MENU → ❖ → 5. Grid/Other Displays → 🖃 🗖 Grid Settings	

Exclusive for 🖃	Choose whether to use a viewfinder-exclusive setting when displaying guides on the viewfinder. [Off]: Use the same setting as when using the monitor. [On]: Use the setting dedicated to the viewfinder.
Display Color	Choose the displayed color. [Preset 1]: The settings of [Color of Preset 1] are used. [Preset 2]: The settings of [Color of Preset 2] are used.
Displayed Grid	Select the type of guides displayed. Choose from: [Off] / [□] / [□] / [□] / [□] / [□] • When [□] is selected, the guides are adjusted for a 16:9 movie frame when movies are shot in still photography mode. Depending on the option selected for [♀ ◄:-], the guides may be displayed with an aspect ratio of 17:9.
Color of Preset 1	[R]: Increase the number to emphasize the red tint.
Color of Preset 2	[G]: Increase the number to emphasize the green tint.[B]: Increase the number to emphasize the blue tint.[α]: Increase the number to make the color of the guides deeper.

The guides configured here are not displayed during focus stacking (P.252).

Choosing the Settings Available via the CP button (CP Button Settings)

PASMB A

Choose the settings available via the **CP** button.

Menu

- MENU → ❖ → 5. Grid/Other Displays → 🗗 Button Settings
- **1.** Select an indicator you wish to display when the INFO button is pressed, and put a check (\checkmark).
 - Select an option using △∇ and press the **OK** button to put a check (✓). To remove the check, press the **OK** button again.

High Res Shot Tripod		
High Res Shot Handheld		
Live ND Shooting : ND2(1EV) – Live ND Shooting : ND16(4EV)	When you put a check (✓), the function will be displayed on the selection screen appearing when the CP button is pressed.	
Focus Stacking		
HDR HDR1		
HDR HDR2		
Multiple Exposure		

Choosing the Settings Available via Multi-Fn (Multi Function Settings)

PASMB #

Choose the settings that can be accessed via multi-function buttons.

Menu

- MENU → ❖ → 5. Grid/Other Displays → Multi Function Settings
- **1.** Select the display type, and put a check (\checkmark) next to it.
 - Select an option using △∇ and press the OK button to put a check (✓) next to it. To remove the check, press the OK button again.

Highlight&Shadow Control	Change the setting using the front and rear dials. Press the INFO button to change the area (highlight, shadow, midtone) to be configured.
Color Creator	Use the front dial to adjust hue and the rear dial to adjust saturation.
ISO	Change the setting using the front and rear dials.
WB	Change the setting using the north and real dials.
Magnify	A zoom frame will be displayed.
Image Aspect	Change the setting using the front and rear dials.
Peaking	Turns on and off with each press of the button.

Histogram Exposure Warning (Histogram Settings)

PASMB A

Choose the brightness levels that the histogram shows as overexposed (highlights) or underexposed (shadows). These levels are used for exposure warnings in the histogram displays during shooting and photo playback.

• The areas shown in red or blue in the monitor and viewfinder [Highlight&Shadow] displays are also selected according to the values chosen for this option.

Menu	
• MENU → 🌣 → 5. Grid/Other Displays → Histogram Settings	

Highlight	Choose the minimum brightness for the highlight warning. [245] – [255]
Shadow	Choose the maximum brightness for the shadow warning. [0] – [10]

Settings related to operation and display of menus

Configuring the cursor on the menu screen (Menu Cursor Settings)

PASMB #

Choose where the cursor will be displayed when you open the menu or move to a different page.

<u>Menu</u>
• MENU → ❖ → 2. Operations → Menu Cursor Settings

Page Cursor Position	[Save]: When you move to a different page, the cursor appears where it was the last time the page was opened. [Reset]: Each time you move to a different page, the cursor appears at the top of the page.
Menu Start Position	[Recently]: When you open the menu, the last used tab, page, and cursor position are recalled. [□1/□]: When you open the menu, the first page of the □1 (still picture 1) tab is displayed when the mode dial is at any position other than □2, and the first page of the □2 (movie) tab is displayed when it is at □2. [My]: When you open the menu, the first page of the "My" tab is displayed.
Shortcut to B Mode Settings	The camera can be configured to open the mode-specific menu when you press the MENU button in B mode. [Off]: The menu opens according to the setting of [Menu Start Position]. [On]: [Live Bulb], [Live Time], or [Composite Settings] opens, depending on the selected mode. Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.271)

Choosing how to move between pages with the rear dial (Loop in Menu Tab)

PASMB A

Choose whether to switch the pages only within the same menu tab when the rear dial is turned.

Menu

• MENU → ❖ → 1. Operations → Dial Settings → ➤ Loop in Menu Tab

When you move to the last page by turning the rear dial and turn it further, the first page of the next tab is displayed.

When you move to the first page by turning the rear dial and turn it further, the last page of the previous tab is displayed.

No



When you move to the last page by turning the rear dial and turn it further, the first page of the current tab is displayed.

When you move to the first page by turning the rear dial and turn it further, the last page of the current tab is displayed.

Yes



& This settings is effective only when the rear dial is operated. When you use $<\!\!\!\!>$ to switch pages, it always works in the same way as when **[No]** is selected.

[Yes]/[No] Default (Priority Set)

PASMB A

Choose the option highlighted by default when a [Yes]/[No] confirmation is displayed.

<u>Menu</u>	
• MENU → ❖ → 2. Operations → Priority Set	

No	[No] is highlighted by default.
Yes	[Yes] is highlighted by default.

"My Menu" Settings

My Menu

You can use "My Menu" to create a personalized menu tab containing only items you select. "My Menu" can contain up to 5 pages of 7 items each. You can delete items or change the page or item order.

At purchase, "My Menu" contains no items.

Adding items to "My Menu"

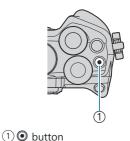
- **1** Press the **MENU** button to view the menus.
- 2. Highlight an item for inclusion in "My Menu".
 - Any item in the menus 1 through 1 can be added to "My Menu" if it appears on the screen with tabs displayed.
 - Some other menu items can also be added to "My Menu". If the menu item can be added, "My" is displayed at the top right corner of the display.



1) Item can be added to "My Menu"

374 My Menu

3. Press the **1** button.



• You will be prompted to choose a page. Use $\Delta \nabla$ on the arrow pad to choose the "My Menu" page to which the item will be added.



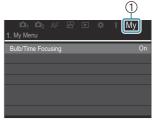
- **4.** Press the **OK** button to add the item to the selected page.
 - The camera will display a message stating that the item has been added to "My Menu".



- Items that have been added to "My Menu" are indicated by the number of the "My Menu" page.
- Items can be removed from "My Menu" by pressing the

 button. Select [Yes] and press the OK button.
- Items saved to "My Menu" are added to the **My** ("My Menu") tab.





1 My ("My Menu") tab

5. To access "My Menu", select the "My" tab.

375 My Menu

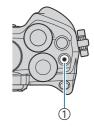
& You can make the camera display "My Menu" first when you press the MENU button.

"Configuring the cursor on the menu screen (Menu Cursor Settings)" (P.371)

Managing "My Menu"

You can reorder items in "My Menu", move them between pages, or remove them from "My Menu" altogether.

- **1.** Press the **MENU** button to display the menus.
- 2. Display the "My Menu" page you want to edit and press the
 button



1 button

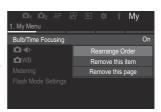
• The options below will be displayed.

[Rearrange Order]: Change the order of items or pages.

Menu". Select [Yes] and press the OK button.

Use $\triangle \nabla \triangleleft \triangleright$ to choose the new location. **[Remove this item]**: Remove the highlighted item from "My

[Remove this page]: Remove from "My Menu" all items on the current page. Select [Yes] and press the **OK** button.



376 My Menu

Card/Folder/File Settings

Formatting the card (Card Formatting)

PASMB #

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

All data stored on the card, including protected images, is erased when the card is formatted. When formatting a used card, confirm there are no images that you still want to keep on the card.

"Usable cards" (P.33)

Menu • MENU → ↑ → 1. Card/Folder/File → Card Formatting

Format Card	[Yes]: The card will be formatted. [No]: Formatting will be cancelled.
No	Formatting will be cancelled.

File Naming Options (File Name)

PASMB #

Choose how the camera names files when saving photos or movies to memory cards. File names consist of a four-character prefix and a four-digit number. Use this option to choose how file numbers are assigned.

Menu • MENU → ↑ → 1. Card/Folder/File → File Name

Auto	When a new memory card is inserted, file numbering continues from the last number used. If the card already contains a file with the same or a higher number, numbering will continue from the highest number.
Reset	Folder numbering is reset to 100 and file numbering to 0001 when a new card is inserted. If the card already contains images, numbering will continue from the highest number.

Naming Files (Edit Filename)

PASMB #

Change the file names the camera uses when saving photos and movies to memory cards.

Menu

• MENU → ↑ → 1. Card/Folder/File → Edit Filename

sRGB	[Date (mdd)]: The 2nd to 4th characters will be made up of the numbers corresponding to the month and day of the recording date (A to C will be used for October to December). You can set the 1st character as you wish.
	[Directory Number]: The 2nd to 4th characters will be made up of the number of the destination folder ("100" – "999"). You can set the 1st character as you wish.
	[Manual] : You can set the first four characters as you wish using alphanumeric characters.
Adobe RGB	[Date (mdd)]: The 2nd to 4th characters will be made up of the numbers corresponding to the month and day of the recording date (A to C will be used for October to December). The 1st character cannot be changed from "_".
	[Directory Number]: The 2nd to 4th characters will be made up of the number of the destination folder ("100" – "999"). The 1st character cannot be changed from "_".
	[Manual] : You can set the 2nd to 4th characters as you wish using alphanumeric characters. The 1st character cannot be changed from "_".

User information

Saving lens info (Lens Info Settings)

PASMB

The camera can store information for up to 10 lenses that do not conform to the Micro Four Thirds or Four Thirds system standards. These data also supply the focal length used for the image stabilization and keystone compensation features. The data are saved as Exif tags.

Menu

• MENU → ↑ → 2. Information Record → Lens Info Settings

	Register the lens information.
	[Lens Name]: Input the name of the lens.
Create Lens Information	[Focal Length]: Input the focal length. [0.1] – [1000.0] mm
	[Aperture Value]: Input the aperture value. [00.00] – [99.99]
	[Set] : Save the lens information you have inputted.
	Edit the registered lens information.
Lens 01 (Registered Name) –	[Edit]: Edit the registered lens information.
Lens 10 (Registered Name)	Edit [Lens Name], [Focal Length], and [Aperture Value].
	[Delete]: Delete the registered lens information.

Entering characters

- **1.** Press the **INFO** button to switch between uppercase, lowercase and symbols.
- **2.** Highlight a character using $\triangle \nabla \triangleleft \triangleright$ press the **OK** button to enter.
 - The selected character appears in the character entry area (a).
 - To delete a character, press the **t** button.
- **3.** To delete a character in the character entry area (a), move the cursor using the front and rear dials.
 - Select a character and press the **u** button to delete it.
- **4.** When you have finished entering, select **[End]** and press the **OK** button.

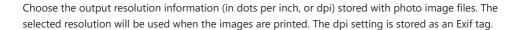


- a Character entry area
- **b** Cursor movement keys
- c Keyboard
- d Operation guide
- Touch operation can also be used to enter characters and operate a to d.

- The lens will be added to the lens info menu.
- When a lens that does not supply info automatically is attached, the info used is indicated by checks
 (✓). Highlight lenses to which you want to add checks
 (✓) and press the OK button.

Output Resolution (dpi Settings)

PASMB P



Menu

• MENU → ↑ → 2. Information Record → dpi Settings

Adding Copyright Information (Copyright Info.)

PASMB P



Choose the copyright information stored with photos when they are saved. Copyright information is stored as Exif tags.

Menu

- MENU → ↑ → 2. Information Record → Copyright Info.
- (2) We will not be held liable for any disputes or damages arising from use of the [Copyright Info.] feature. Use at your own risk.
- (1) To delete the copyright information you have entered, delete the characters on the entry screen of each item (P.384).

Enabling Copyright Info.

1. Use $\Delta \nabla$ to select [Copyright Info.] and press the OK button



Copyright Info. setting screen

2. Highlight [On] using the $\Delta \nabla$ buttons and press the OK button.

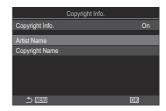
Off	Do not add Exif tags naming the photographer and/or copyright holder.
On	Add Exif tags naming the photographer and/or copyright holder.

3. The display returns to the Copyright Info. setting screen.

Configuring Copyright Info.

1. Configure options.

- Press △∇ to select an item and press the **OK** button to display the setting menu.
- After configuring options, press the OK button to return to Copyright Info. setting screen.



Artist Name	Enter the name of the photographer.
Copyright Name	Enter the name of the copyright holder.

Entering characters

- **1.** Press the **INFO** button to switch between uppercase, lowercase and symbols.
- **2.** Highlight a character using $\triangle \nabla \triangleleft \triangleright$ press the **OK** button to enter.
 - The selected character appears in the character entry area (a).
 - To delete a character, press the $\mathbf{\tilde{u}}$ button.
- **3.** To delete a character in the character entry area (a), move the cursor using the front and rear dials.
 - \bullet Select a character and press the $\tilde{\textbf{1}}\!\!\textbf{1}$ button to delete it.
- **4.** When you have finished entering, select **[End]** and press the **OK** button



- a Character entry area
- **b** Cursor movement keys
- c Keyboard
- d Operation guide
- Touch operation can also be used to enter characters and operate a to d.

Monitor/Sound/Connection Settings

Disabling Touch Controls (Touchscreen Settings)

PASMB A

Enable or disable touch controls.

<u>Menu</u>	
• MENU → ↑ → 3. Monitor/Sound/Connection → Touchscreen Settings	

Off	Disable touch controls.
On	Enable touch controls.

Monitor Brightness and Hue (Monitor Adjust)

PASMB A

Adjust monitor color temperature and brightness. This option applies in both still photography and movie modes.

Menu	
• MENU → ↑ → 3. Monitor/Sound/Connection → Monitor Adjust	

ੀੰ (Color temperature)	Adjust color temperature. Select an option using $\Delta \nabla$. [-7] – [±0] – [+7]
∜ (Brightness)	Adjust brightness. Select an option using $\Delta \nabla$. [-7] – [±0] – [+7]

- Press the INFO button to switch between color temperature and brightness and set each item.
- In **B** mode, the monitor uses the brightness selected in **[Bulb/Time Monitor]**. **C** "Configuring BULB/TIME/COMP Settings (BULB/TIME/COMP Settings)" (P.271)

Viewfinder Brightness and Hue (EVF Adjust)

PASMB PA

Adjust viewfinder brightness and hue. The display switches to the viewfinder while these settings are being adjusted.

<u>Menu</u>	\neg
• MENU → ↑ → 3. Monitor/Sound/Connection → EVF Adjust	

🌣 (Brightness)	[EVF Auto Luminance Off]/[EVF Auto Luminance On]: Select whether the viewfinder brightness and information display intensity automatically adjust according to ambient lighting conditions. Select an option using ▷. [※]: Adjust brightness. Select an option using ▷∇. [-2] - [±0] - [+2] ② Brightness cannot be changed when [EVF Auto Luminance On] is
	selected.
 (Color temperature)	Adjust color temperature. Select an option using $\Delta \nabla$. [-3] – [±0] – [+3]

• Press the **INFO** button to switch between color temperature and brightness and set each item.

Configuring the eye sensor (Eye Sensor Settings)

PASMB #

You can specify how the camera operates when you put your eye to the viewfinder.

Menu	
• MENU → ↑ → 3. Monitor/Sound/Connection → Eye Sensor Settings	

EVF Auto Switch	[Off]: The display does not switch when you put your eye to the viewfinder. To switch the display, press the O button. [On]: The viewfinder automatically turns on when you put your eye to the viewfinder.
	Choose what will be displayed when the display automatically switches to the viewfinder.
Behavior when switched	[Maintain Screen] : The screen that was shown on the monitor will be shown in the viewfinder.
	[Shooting Screen] : The viewfinder shows the live view even if the playback screen or a menu was shown on the monitor.
When	[Operative]: When [EVF Auto Switch] is [On] and you put your eye to the viewfinder, the display switches to the viewfinder even if the monitor is open.
Monitor is Opened	[Inoperative]: When [EVF Auto Switch] is [On] and you put your eye to the viewfinder, the display does not switch to the viewfinder if the monitor is open.

The [EVF Auto Switch] setting screen appears when you press and hold the O button.

Disabling the Focus Beep (■))))

PASMB A

Disable the beep that sounds when the camera focuses.

Menu	
• MENU → ↑ → 3. Monitor/Sound/Connection → ■1))	

On	A beep sounds after successful autofocus operations. The beep sounds only when the camera first focuses using [C-AF] .
Off	A beep does not sound after successful autofocus operations.

External Monitor Display Options (HDMI Settings)

PASMB A

Choose the signal output to external monitors connected via HDMI. Adjust the frame rate, movie frame size, and other settings according to monitor specifications.

Menu

• MENU → ↑ → 3. Monitor/Sound/Connection → HDMI Settings

Output Size	Choose the type of signal output to the HDMI connector. [C4K]: The signal is output in 4K digital cinema (4096 × 2160) format. [4K]: If possible, the signal is output in 4K (3840 × 2160). [1080p]: If possible, the signal is output in Full HD (1080p). [720p]: If possible, the signal is output in HD (720p).
Output Frame Rate	Choose the signal frame rate according to whether the device supports NTSC or PAL. [60p Priority]: Frame rate for areas supporting NTSC. [50P Priority]: Frame rate for areas supporting PAL.

[[]Output Frame Rate] cannot be changed when the camera is connected to a device via HDMI.

"HDMI Output (AHDMI Output)" (P.286)

② Sound will not be played back unless the connected device is compatible with the sound format.

[&]amp; You can configure detailed options for outputting signals to an HDMI device in movie mode.

Choosing a USB Connection Mode (USB Settings)

PASMB #

Choose how the camera functions when connected to external devices via USB.

Menu

• MENU → ↑ → 3. Monitor/Sound/Connection → USB Settings

	[Select] : The menu for selecting the connection mode appears each time a USB cable is connected.
	[Storage] : The camera functions as an external storage device. The data on the camera memory card can be copied to the computer.
USB	[MTP] : The pictures on the memory card can be viewed or copied to the computer using computer software (P.422).
Mode	[Webcam] : The camera can be connected to a computer and used as a webcam for online meetings and live streaming (P.424). No additional drivers or applications are necessary. Video and audio data captured by the camera is streamed to the computer by simply connecting the two devices via USB (USB streaming).
	[Power Supply] : Select when power supply does not start automatically when connected to a commercially available USB device. This setting is not required in most situations.
	Choose whether to power the camera when connecting to a computer via USB (P.422).
Power	[Yes] : The camera will be powered when the camera and computer are connected via USB.
Supply from USB	[No] : The camera will not be powered when the camera and computer are connected via USB.
	The camera may not be powered even if [Yes] is selected depending on the ambient temperature or the computer performance.

Battery/Sleep Settings

Dimming the Backlight (Backlit LCD)

PASMB A

Choose the length of time before the monitor backlight dims when no operations are performed. Dimming the backlight reduces the drain on the battery.

Menu	
• MENU → Y → 5. Battery/Sleep → Backlit LCD	

8sec / 30sec / 1min	The monitor backlight dims after the specified time.
Hold	The monitor backlight does not dim.

Setting Sleep (Power Saving) Options (Sleep)

PASMB A

Choose the delay before the camera enters sleep mode when no operations are performed. In sleep mode, camera operations are suspended and the monitor turns off.

<u>Menu</u>	
• MENU → ↑ → 5. Battery/Sleep → Sleep	

Off	The camera does not enter sleep mode.
1min / 3min / 5min	The camera enters sleep mode after the specified time.

- Normal operation can be restored by pressing the shutter button halfway.
- (?) The camera will not enter sleep mode in the following situations.
 - while a multiple exposure is in progress, while connected to an HDMI device, while connected to a smartphone via Wi-Fi, while connected to a computer, or while connected to a remote control wirelessly

Setting Auto Power Off Options (Auto Power Off)

PASMB A

The camera will turn off automatically if no operations are performed for a set time after it has entered sleep mode. This option is used to choose the delay before the camera turns off automatically.

Menu	7
• MENU → ↑ → 5. Battery/Sleep → Auto Power Off	

Off	The camera does not turn off automatically.
5min / 30min / 1h / 4h	The camera turns off after the specified time.

To reactivate the camera after it has turned off automatically, turn the camera on using the ON/OFF lever.

Reducing Power Consumption (Quick Sleep Mode)

PASMB P



Further reduce power consumption during viewfinder photography. The delay before the backlight turns off or the camera enters sleep mode can be shortened.

Power saving is not available:

- during live view photography, while the viewfinder is on, while multiple exposure or interval timer photography is in progress, while connected to an HDMI device, while connecting to a smartphone via Wi-Fi, while connecting to a computer, or while Bluetooth is enabled

Menu

MENU → ↑ → 5. Battery/Sleep → Quick Sleep Mode

Enabling Quick Sleep Mode

1. Use $\triangle \nabla$ to select [Quick Sleep Mode] and press the OK button



Quick Sleep Mode setting screen

2. Highlight [On] using the $\triangle \nabla$ buttons and press the OK button.

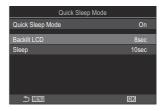
Off	The camera does not enter power-saving mode.
On	The camera is quick to enter power-saving mode. When power-saving is in effect and the super control panel is displayed (P.45), "ECO" is displayed on the monitor.

3. The display returns to the Quick Sleep Mode setting screen.

Configuring Quick Sleep Mode

1. Configure options.

- Press $\Delta \nabla$ to select an item and press the **OK** button to display the setting menu.
- After configuring options, press the OK button to return to Quick Sleep Mode setting screen.



Backlit LCD	Choose the length of time before the monitor backlight dims when no operations are performed. [3sec] / [5sec] / [8sec]
Sleep	Choose the delay before the camera enters sleep mode when no operations are performed. [3sec] / [5sec] / [10sec] / [15sec] / [30sec] / [1min]

• When power-saving is in effect and the super control panel is displayed (P.45), "ECO" is displayed on the monitor.



Reset/Clock/Language/Others Settings

Restoring Default Settings (Reset/Initialize Settings)

PASMB A

Reset the camera to factory default settings. You can opt to reset almost all settings or only those directly related to photography.

<u>Menu</u>	
• MENU → ↑ → 6. Reset/Clock/Language/Others → Reset/Initialize Settings	

Reset Shooting Settings	Reset photography-related settings only.
Initialize All Settings	Reset all settings with a few exceptions, such as the clock and language.

[&]amp; See "Default Settings" (P.468) for information on the settings that are reset.

Settings can be saved using OM Workspace or OM Image Share. For more information, visit our website.

Setting the Camera Clock (② Settings)

PASMB #

Set the camera clock.

<u>Menu</u>	
• MENU → ↑ → 6. Reset/Clock/Language/Others → ④ Settings	

0	Set the date, time, and date format. Use the $\triangleleft \triangleright$ buttons to highlight items and use the $\triangle \nabla$ buttons to change the highlighted item.
Time Zone	Set the time zone and daylight-saving time. Use the $\Delta \nabla$ buttons to change the time zone. Pressing the INFO button allows you to set the daylight-saving time. It switches on and off each time the INFO button is pressed.

Choosing a Language (

PASMB PA

Choose a language for camera menus and tool tips.

Menu

• MENU → ↑ → 6. Reset/Clock/Language/Others → �8

399

Calibrating the Level Gauge (Level Adjust)

PASMB PA

Correct deviation in the level gauge. Calibrate the gauge if you find it is no longer truly plumb or level.

Menu

• MENU → ↑ → 6. Reset/Clock/Language/Others → Level Adjust

Reset	Reset the gauge to factory default settings.
Adjust	Choose the reference (zero) point. Calibrate the level gauge after positioning the camera appropriately.

Image Processing Check (Pixel Mapping)

PASMB PA

Check the image sensor and image processing functions simultaneously. For best results, end shooting and playback and wait at least a minute before performing pixel mapping.

② Be sure to perform the check again if you accidentally turn the camera off while the check is in progress.

Menu

• MENU → ↑ → 6. Reset/Clock/Language/Others → Pixel Mapping

Viewing the Firmware Version (Firmware Version)

PASMB #

View the versions of the firmware for the camera and any lenses or other peripherals currently connected. You may need this information when contacting customer support or performing firmware updates.

Menu

• **MENU** → ↑ → 6. Reset/Clock/Language/Others → Firmware Version

Viewing Certificates (Certification)

PASMB PA

Display the compliance certificates for some of the standards with which the camera complies.

Menu

• MENU → ↑ → 6. Reset/Clock/Language/Others → Certification

Connecting the Camera to External Devices

Connecting to External Devices

A number of tasks can be accomplished by connecting the camera to an external device such as a computer or smartphone.

Precautions for Using Wi-Fi and Bluetooth®

Disable wireless LAN and $Bluetooth^{\oplus}$ in countries, regions, or locations in which their use is prohibited.

The camera is equipped with wireless LAN and **Bluetooth**[®]. Use of these features in countries outside the region of purchase may violate local wireless regulations.

Some countries and regions may prohibit the acquisition of location data without prior governmental permission. In some sales areas, the camera may consequently ship with location data displays disabled.

Each country and region have its own laws and regulations. Check them before traveling and observe them while abroad. Our company assumes no liability for any failure on the part of the user to observe local laws and regulations.

Disable Wi-Fi on airplanes and in other locations where their use is prohibited.

"Disabling the camera's wireless communication (Airplane Mode)" (P.406)

- Wireless transmissions are vulnerable to interception by third parties. Use wireless features with this in mind.
- The wireless transceiver is located in the camera grip. Keep it as far away as practicable from metal objects. Moreover, the signal strength may be reduced if the grip part is held or covered.
- When transporting the camera in a bag or other container, be aware that the contents of the container or the materials of which it is constructed may interfere with wireless transmissions, which can prevent the camera connecting to a smartphone.
- Wi-Fi connections increase the drain on the batteries. The connection may be lost during use if the batteries are low.
- Devices such as microwave ovens and cordless phones that generate radio-frequency emissions, magnetic fields, or static electricity may slow or otherwise interfere with wireless data transmission.
- ② Some wireless LAN features are unavailable when the memory card write-protect switch is in the "LOCK" position.

Disabling the camera's wireless communication (Airplane Mode)

PASMB #

Disable the camera's wireless (Wi-Fi/**Bluetooth**®) functions.

Menu	
• MENU → ↑ → 4. Wi-Fi/Bluetooth → Airplane Mode	

Off	Wireless communication is enabled.
On	Wireless communication is disabled. You cannot use it until you change the setting to [Off] . appears when you select [On] .

[&]amp; Communication with the Wireless Radiowave Commander FC-WR is possible even if you select **[On]**.

Connecting the Camera to a Smartphone

Connecting to Smartphones

Use the camera's wireless LAN (Wi-Fi) and **Bluetooth**® features to connect to a smartphone, where you can use the dedicated app to enhance your enjoyment of the camera both before and after shooting. Once a connection has been established, you can download and take pictures remotely and add position information to images.

• Operation is not guaranteed on all smartphones.

Things you can do with the specified app, OM Image Share

- Download images from the camera to the smartphone
 Download pictures marked for sharing (P.306) to your smartphone.
 You can also use the smartphone to select images for download from the camera.
- Remote shooting from a smartphone
 You can remotely operate the camera and shoot using a smartphone.
- Beautiful image processing
 Use intuitive controls to apply impressive effects to images downloaded to your smartphone.
- Addition of GPS tags to camera images
 Using the smartphone's GPS function, you can add position information when taking pictures with the camera

For details, visit our website.

Pairing the Camera and Smartphone (Device Connection)

Follow the steps below when connecting the devices for the first time.

- Adjust pairing settings using OM Image Share, not the settings app that is part of the smartphone
 operating system.
 - Launch the copy of the dedicated OM Image Share app previously installed on your smartphone.
 - 2. Tap the sicon displayed on the shooting standby screen.
 - &-You can also perform the following operations.



- **3.** Select [Device Connection] and press the OK button.
- **4.** Follow the on-screen guide to adjust Wi-Fi/**Bluetooth**® settings.
 - The **Bluetooth** local name and passcode, the Wi-Fi SSID and password, and a QR code are displayed in the monitor.



- 1 Bluetooth local name Bluetooth Passcode
- ②Wi-Fi SSID Wi-Fi Password
- ③ QR code
- **5.** Tap the camera icon at the bottom of the OM Image Share display.
 - An [Easy Setup] tab will be displayed.

- **6.** Follow the on-screen instructions in OM Image Share to scan the QR code and adjust connection settings.
 - If you are unable to scan the QR code, follow the on-screen instructions in OM Image Share to adjust settings manually.
 - Bluetooth®: To connect, select the local name and enter the passcode displayed in the camera monitor into the Bluetooth settings dialog in OM Image Share.
 - Wi-Fi: To connect, enter the SSID and password displayed on the camera monitor into the Wi-Fi settings dialog in OM Image Share.
 - • on the screen will turn green when pairing is complete.
 - The **Bluetooth**® icon indicates the status as follows:
 - \$: The camera is emitting wireless signal.
 - *: Wireless connection has been established.
- 7. To end the Wi-Fi connection, press **MENU** on the camera or tap 💸 💷 on the monitor screen.
 - You can also turn the camera off and end the connection from OM Image Share.
 - At default settings, **Bluetooth**® connection is kept active even after Wi-Fi connection is terminated, allowing you to shoot remotely with a smartphone. To set the camera to also terminate **Bluetooth**® connection when terminating Wi-Fi connection, set [**Bluetooth**] to [Off].

Setting the security for smartphone connections (Connection Security)

Set the security for Wi-Fi connection to your smartphone.

Menu

- MENU → ↑ → 4. Wi-Fi/Bluetooth → 🛭 Settings → 🖫 Connection Security
- ① If set to [WPA2/WPA3], you may not be able to connect to your smartphone via Wi-Fi. If this happens, set to [WPA2].
- When the setting is changed, both the Wi-Fi connection password and Bluetooth® connection passcode can be changed.

Wireless Connection Standby Setting for When the Camera Is On (Bluetooth)

You can choose whether the camera will be on standby for wireless connection with a smartphone or optional remote control when the power is on.

©-Complete the pairing of camera and smartphone or the optional remote control beforehand. [Bluetooth] cannot be selected unless the pairing has been completed.

Menu • MENU → ↑ → 4. Wi-Fi/Bluetooth → Bluetooth

Off	The camera will not be on standby for wireless connection and wireless signal will not be emitted even when the power is on.
On ∛	When the camera is on, it will emit wireless signal and be on standby for wireless connection. You can connect the camera and the smartphone through operation of OM Image Share and shoot remotely or transfer images.
On≯å	When the camera is turned on, it will start transmitting wireless signals, and if the devices have already been paired (P.431), it will stand by for connection from a remote control.

Wireless Settings for When the Camera Is Off (Power-off Standby)

You can choose whether the camera will maintain a wireless connection to the smartphone when off.

Menu

• MENU → ↑ → 4. Wi-Fi/Bluetooth → 🛘 Settings → Power-off Standby

Select	When you turn the camera off, you will be prompted to choose whether to maintain the wireless connection to the smartphone.
Off	Turning the camera off terminates the wireless connection to the smartphone.
On	When the camera is turned off, the connection to the smartphone remains active and the smartphone can still be used to download or view the pictures on the camera.

"Select"

When **[Select]** is chosen for **[Power-off Standby]**, a confirmation dialog will be displayed before the camera turns off if all the following conditions are met:

- [Off] is selected for [Airplane Mode]
- The camera is currently connected with a smartphone (P.408)
- The memory card is correctly inserted



Yes	Turn the camera off but leave the wireless smartphone connection active.
No	Turn the camera off and terminate the wireless smartphone connection.

- ① If no operations are performed about a minute after the confirmation dialog is displayed, the camera will end the wireless connection to the smartphone and turn off automatically.
- ① If left active, the wireless connection will automatically terminate if: The connection can be restored by turning the camera on.
 - the connection remains inactive for 12 hours
 - the memory card is removed
 - the battery is replaced
 - a charging error occurs during on-board battery charging

Note that if [On] is selected for [Power-off Standby], camera may not turn on immediately when the ON/OFF lever is rotated to ON.	

Transferring images to a smartphone

You can select images in the camera and load them to a smartphone. You can also use the camera to select images you want to share in advance. Selecting Pictures for Sharing (Share Order)" (P.306)

- If [Off] or [On¾i] is selected for [Bluetooth] (P.411), select [On¾].
- Selecting [On*] for [Bluetooth] (P.411) puts the camera on standby, ready for a wireless connection.
 - **1.** Tap [Import Photos] in OM Image Share on the smartphone.
 - Depending on the smartphone, a confirmation screen for Wi-Fi connection may appear. Follow the on-screen guidance to connect the smartphone and the camera.
 - The images in the camera are displayed in a list.
 - 2. Select the pictures you want to transfer and tap the Save button.
 - When saving is completed, you can turn off the camera from the smartphone.
 - Even if [Bluetooth] (P.411) is set to [Off] or [On¾½], [Import Photos] can be used by [Device Connection] on the camera.

Automatically uploading images while the camera is off

To configure the camera to automatically upload images to a smartphone while off:

- Mark images for sharing (P.306).
- Enable power-off standby (P.412).
- If you are using an iOS device, launch OM Image Share.

When you mark an image for sharing on the camera and turn the camera off, a notification appears in OM Image Share. When you tap the notification, images are automatically transferred to the smartphone.

Shooting remotely with a smartphone (Live View)

You can shoot remotely by operating the camera with a smartphone while checking the live view on the smartphone screen.

- The camera shows the connection screen and all operations are performed from the smartphone.
- If [Off] or [On*i] is selected for [Bluetooth] (P.411), select [On*].
- Selecting [On*] for [Bluetooth] (P.411) puts the camera on standby, ready for a wireless connection.
 - 1. Launch OM Image Share and tap [Remote Control].
 - Tap [Live View].
 - **3.** Tap the shutter button to shoot.
 - The image taken is saved on the memory card in the camera.
- (?) Available shooting options are partially limited.

Shooting remotely with a smartphone (Remote Shutter)

You can shoot remotely by operating the camera with a smartphone (Remote Shutter).

- All operations are available on the camera. In addition, you can shoot pictures and record movies using the shutter button displayed on the smartphone screen.
- If [Off] or [On*i] is selected for [Bluetooth] (P.411), select [On*].
- Selecting [On*] for [Bluetooth] (P.411) puts the camera on standby, ready for a wireless connection.
 - **1.** Launch OM Image Share and tap [Remote Control].
 - Tap [Remote Shutter].
 - **3.** Tap the shutter button to shoot.
 - The image taken is saved on the memory card in the camera.

Adding position information to images

Using the smartphone's GPS function, you can add position information when taking pictures with the camera.

- If [Off] or [On¾i] is selected for [Bluetooth] (P.411), select [On¾].
- Selecting [On*] for [Bluetooth] (P.411) puts the camera on standby, ready for a wireless connection.
 - Before taking pictures with the camera, launch OM Image Share and switch on the position information addition function.
 - When you are prompted to synchronize the clocks of the smartphone and the camera, follow the guides displayed in OM Image Share.
 - 2. Take pictures with the camera.
 - When it is possible to add position information, ③ will be lit on the shooting screen. When the camera cannot acquire position information, ⑤ blinks.
 - It may take some time before the camera is ready to add position information when it has been turned on or it has resumed from sleep mode.

 - ② is displayed on the screen when you view a picture that has position information.
 - Position information is not added to movies.
 - **3.** When you have finished shooting, switch off the position information addition function in OM Image Share.

Resetting smartphone connection settings (Reset Settings)

You can restore smartphone connection settings to default values.

Menu

• MENU → ↑ → 4. Wi-Fi/Bluetooth → □ Settings → Reset □ Settings

- [Connection Security] (P.410) / [Connection Password] (P.420) / [Power-off Standby] (P.412)
- & Before connecting to a smartphone, you will need to pair the devices again (P.408).

Changing the password (Connection Password)

To change the Wi-Fi/**Bluetooth**® passwords:

Menu

- MENU → ↑ → 4. Wi-Fi/Bluetooth → □ Settings → □ Connection Password
- **1.** Press the **O** button as directed by the on-screen guide.
 - A new password will be set.
- *&* Both the Wi-Fi connection password and **Bluetooth**[®] connection passcode can be changed.
- & Reconnect to the smartphone after changing passwords. Pairing the Camera and Smartphone (Device Connection)" (P.408)

Connecting to Computers via USB

Installing Software

Install the following software to access the camera while it is connected directly to the computer via USB.

OM Workspace

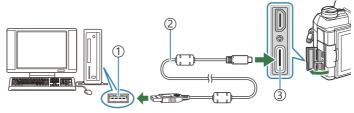
This computer application is used to download, view, and manage photos and movies recorded with the camera. It can also be used to update the camera firmware. The software can be downloaded from our website. When downloading the software, be prepared to provide the camera serial number.

Follow the on-screen instructions to install the software. System requirements and installation instructions are available at our website.

Copying Pictures to the Computer (Storage/MTP)

You can transfer images by connecting the camera to your computer as a card reader or portable device.

1. After confirming that the camera is off, connect it to the computer using the USB cable.



- 1) USB port
- (2) USB cable (supplied)
- (3)USB connector
- The locations of USB ports vary from computer to computer. See the documentation provided with the computer for information on USB ports.
- 2. Turn the camera on.
 - The camera will display a message prompting you to identify the device to which the USB cable is connected.
 - If the message is not displayed, select [Select] for [USB Mode] (P.391).
 - If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.
- **3.** Highlight [Storage] or [MTP] using $\Delta \nabla$ and press the **OK** button. Press the **OK** button.

[Storage]: The camera functions as a card reader. **[MTP]**: The camera functions as a portable device.



4. The camera will connect to the computer as a new storage device.

- ② Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
 - Computers with a USB port added by means of an extension card, etc., computers without a factory-installed OS, or home-built computers
- (?) Camera functions cannot be used while the camera is connected to the computer.
- ① If the computer fails to detect the camera, disconnect and reconnect the USB cable.
- (1) When [MTP] is selected, movies exceeding 4 GB cannot be copied to the computer.
- The camera battery may also be charged while connected to a computer via USB when the **ON/OFF** lever is in the **OFF** position. Charging time varies significantly depending on the performance of the computer and other devices.

Using the Camera as a Webcam (Webcam)

The camera can be connected to a computer and used as a webcam for online meetings and live streaming. No additional drivers or applications are necessary. Video and audio data captured by the camera is streamed to the computer by simply connecting the two devices via USB (USB streaming).

- **1.** After confirming that the camera is off, rotate the mode dial to \mathfrak{L}^{2} .
- Connect the camera to the computer.
 - The locations of USB ports vary from computer to computer. See the documentation provided with the computer for information on USB ports.
- **3.** Turn the camera on.
 - &-If it is not displayed on the screen, select [Select] for [USB Mode] (P.391).
 - ① If the batteries are very low, the camera will not display a message when connecting to a computer. Be sure the batteries are charged.
- **4.** Highlight [Webcam] using $\Delta \nabla$ and press the **OK** button.
 - The camera will enter shooting mode.
 - The + icon will be displayed.
 - Adjust the brightness and focus by operating the camera.
- **5.** On the PC, launch the desired web conferencing or streaming service application. Select the model name of the connected camera in the device settings for the application.
 - Streaming of video and audio will begin.
 - Video will be streamed in a 1280×720 movie resolution.
 - When [Frame Rate] is set to [60p], [30p] or [24p] for [♀ ◀:·], video is streamed at [30p].
 When it is set to [50p] or [25p], video is streamed at [25p].
- g-If an external microphone is connected, audio captured by the microphone will be streamed.

- When [Yes] is selected for [Power Supply from USB], USB power is supplied to the camera from the PC while using it as a webcam.
 - The availability of USB power delivery depends on the specifications and performance of the computer's USB ports.
 - Power supply to the camera may not be available when the ambient or internal temperature is high.
- (1) Video and audio cannot be streamed to the computer if:
 - an option other than movie mode is selected for shooting mode, or the playback screen or menu screen are being displayed
 - Depending on the application you are using, performing these operations may temporarily disrupt video and audio streaming.
- (?) The following restrictions are in place while video and audio are being streamed to a computer.
 - Photography and movie recording are not available.
 - Movie Quality settings cannot be configured.
 - [P233] is fixed at [Same as].
- ② Exposure and other camera settings cannot be changed on the computer.

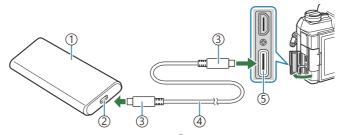
Powering the Camera via USB (Power Supply)

Commercially available mobile batteries and USB-AC adapters can be used to reduce battery consumption. The devices can be used under the following conditions:

Voltage/current: 5 V 1.5 A

Power supply to the camera may not be available when the ambient or internal temperature is high. Also, the continuous movie recording time may shorten while the camera is being powered.

1. After confirming that the camera is off, use the USB cable to connect it to the device.



- (1) Mobile battery or other USB devices
- 4 USB cable

(2)USB port

(5) USB connector

- (3) Type C USB connector
- The method used for connection varies from device to device. See the documentation provided with the device for details.
- You may be unable to use USB power delivery with some USB devices. See the manual supplied with the USB device.

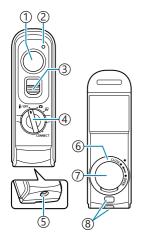
2. Turn the camera on.

- The camera will draw power from the connected USB device.
- If the camera displays a message prompting you to identify the device to which the USB cable is connected, select [Power Supply].
- If the batteries are very low, the display will remain blank when the camera is connected to the USB device. Be sure the batteries are charged.
- USB is displayed while the camera draws power from the USB device.

Using the Remote Control

Names of parts

RM-WR2 (optional)

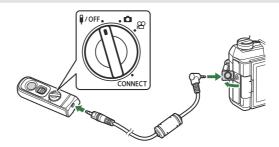


- 1)Shutter button
- (2) Data transfer indicator
- ③Shutter button lock
- (4) Mode dial (**I)/OFF** / □ / ₩ / CONNECT)
- (5) Cable connector
- (6) Battery-compartment lid
- 7 Battery compartment cover
- 8 Strap eyelet

This camera cannot be wirelessly connected with optional RM-WR1 remote controls.

Connection

Wired connection



Rotate the mode dial of the remote control to **\frac{1}{2}/OFF** and connect the remote control to the camera via the supplied cable.

Photographs can be taken by pressing the shutter button.

Before recording movies, select [REC] for [Shutter Function]. Recording a movie by pressing the shutter button (Shutter Function)" (P.342)

(1) Wireless remote control is not available while the cable is connected.

To enable the shutter button for bulb photography or the like, slide the shutter button lock up.



Wireless connection

For wireless connection, you must pair the camera and the remote control first.

Menu • MENU → ↑ → 4. Wi-Fi/Bluetooth → Wireless Shutter Setting

Start Pairing	Follow the on-screen instructions. When pairing is complete, [Bluetooth] will be set to [On *a].
Delete Pairing	If you select [Yes] and press the OK button, the paired device will be deleted.

428 Connection

- 1. Highlight [Start Pairing] and press the OK button.
- When a message is displayed, stating that "pairing is in progress", rotate the mode dial on the remote control to CONNECT and keep it in this position.





- Pairing starts when it is kept 3 seconds. Keep it in the CONNECT position until pairing is complete. If you rotate the mode dial before it is complete, the data transfer indicator flashes rapidly.
- The data transfer indicator lights when pairing starts.
- **3.** When a message indicating pairing is complete is displayed, press the **OK** button.
 - The remote control firmware version is displayed.



- The data transfer indicator goes out when pairing is complete.
- [Bluetooth] (P.411) will automatically be set to [On \$\ddots] when pairing is complete.
- If you rotate the mode dial of the remote control or press the MENU button of the camera before the pairing completion message is displayed, the pairing process ends. Paired device information will be reset. Pair the devices again.
- ① If you rotate the mode dial of a remote control that is not currently paired to CONNECT and keep it 3 seconds, or when pairing fails, the pairing information from previous connections will be reset. Pair the devices again.

Deleting pairing

- 1. Select [Delete Pairing] and press the OK button.
- 2. Select [Yes] and press the OK button.

429 Connection



430 Connection

Shooting from the remote control

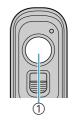
PASMB PA

Before establishing a wireless connection between the camera and remote control, confirm that **[On** is selected for **[Bluetooth]** (P.411). When set to **[On** is appears in the display and the camera will be on standby for wireless communication with the remote control as soon as it is turned on.

1. Rotate the mode dial of the remote control to \square or \square .



2. Press the shutter button on the remote control to take pictures.



(1) Shutter button

- When the mode dial of the remote control is set to ☐ (still photography mode): When you lightly press the shutter button of the remote control down to the first position (press the shutter button halfway), the AF confirmation mark (●) will be displayed, and a green frame (AF target) will be displayed in the focus location.
- When the mode dial of the remote control is set to \mathfrak{L} (movie recording mode): When you press the shutter button of the remote control, movie recording starts. Press the shutter button of the remote control again to stop movie recording.

Data transfer indicator of the remote control

Lights once	Remote control operation is sent to the camera correctly.
Flashes rapidly (1 second)	Remote control operation is not sent to the camera correctly. Shorten the distance between the camera and the remote control. If the problem is not solved, check the setting of the camera.
Flashes rapidly (3 seconds)	There is a problem regarding the pairing of the camera and remote control. Pair the devices again.
Does not light	This may occur in the following situations. • The battery in the remote control is dead. • The mode dial of the remote control is in the ♥/OFF position. • The camera and remote control are connected with a cable

- ② Even if [Bluetooth] (P.411) is set to [On≯i], you can connect the camera to a smartphone by starting [Device Connection] on the camera.
 - However, you cannot control the camera from the remote control when it is connected to a smartphone.
- Pairing devices and remote shooting are not available when [Airplane Mode] (P.406) is [On].
- The camera does not enter sleep mode when a remote control is connected wirelessly.
- ② If you rotate the mode dial of the remote control to the

 ¶/OFF position, the camera enters sleep mode according to the setting of [Sleep] (P.393).
 - The camera will not enter sleep mode when **[On*i]** is selected for **[Bluetooth]** (P.411) unless the mode dial on the remote control is in the **¶/OFF** position.
- ① If you operate the remote control while the camera is in sleep mode, it may take a longer time for the camera to resume operation.
- The camera cannot be controlled from the remote control while it is waking from sleep. Operate the remote control after the camera has resumed operation.
- Rotate the mode dial of the remote control to the **POFF** position when you have finished using the remote control.

MAC address of the remote control

The MAC address of the remote control is printed on the warranty card provided with the remote control.

Precautions for using the remote control

- Do not tug on the battery-compartment cover or use it to turn the battery-compartment lid.
- Do not pierce batteries with sharp objects.
- Do not drop or swing the remote control while holding the cable.
- Moisture on the cable or remote control connectors could interfere with wireless control and render wired connections unreliable.
- Confirm that the battery-compartment lid is free of foreign matter before closing it.
- Rotate the mode dial to **I/OFF** before connecting or disconnecting cables.

Connecting to TVs or External Displays via HDMI

Connecting the Camera to TVs or External Displays (HDMI)

Pictures can be displayed on televisions connected to the camera via HDMI. Use the television to display pictures to an audience.



You can also film movies while the camera is connected to an external monitor or video recorder via HDMI.

② HDMI cables are available from third-party suppliers. Use an HDMI-certified cable.

Viewing Pictures on a TV (HDMI)

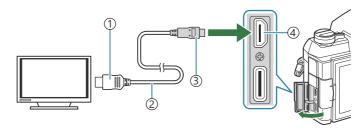
Photos and movies can be viewed on a high-definition TV connected directly to the camera by means of an HDMI cable.

For information on output signal setting, see "External Monitor Display Options (HDMI Settings)" (P.390).

Connecting the Camera to a TV

Connect the camera using an HDMI cable.

1. After confirming that the camera is off, connect it to the TV using an HDMI cable.



- 1) Type A HDMI connector
- ③Type D HDMI connector
- (2) HDMI cable

- (4) HDMI connector
- **2.** Switch the TV to HDMI input and turn the camera on.
 - The TV will show the content on the camera monitor. Press the **b** button to view pictures.
- (?) For information on switching to HDMI input, see the manual provided with the TV.
- (?) Depending on TV settings, the image may be cropped and some indicators may not be visible.
- ② HDMI cannot be used while the camera is connected to a computer via USB.
- ② If [Record] is selected for [ADMI Output] (P.286) > [Output Mode], the signal will be output at the current movie frame size. No image will be displayed if the TV does not support the selected frame size.
- (If [4K] or [C4K] is selected, 1080p priority format will be used during still photography.

Cautions

Information about Dust and Water-resistant Features

- This camera has a water-resistant specification of IPX3 (when used in combination with an IPX3 or higher water-resistant lens supplied by our company).
- This camera has a dust resistant specification of IP5X (under our company's test conditions).

Precautions

- Dust and water-resistant capabilities may be lost when the camera is subjected to shock.
- Check the following parts for foreign material including dirt, dust or sand: packing parts of the battery compartment cover, card compartment cover, connector covers, and the parts that come in contact with them, and the parts that come in contact when attaching the lens and accessories. Wipe off foreign material with a clean cloth that does not produce textile waste.
- To ensure dust and water-resistant capabilities, close the covers firmly and attach the lens before
 use.
- Do not operate the camera, open/close the covers, or attach/remove the lens when they are wet.
- Water-resistant feature is ensured only when compatible lenses/accessories are attached. Check the compatibility.

For compatible accessories, visit our website.

Maintenance

- Wipe off water thoroughly with a dry cloth.
- Remove foreign materials such as dirt, dust, or sand thoroughly.

Batteries

- The camera uses our lithium-ion battery. Never use any battery other than our genuine batteries.
- The camera's power consumption varies widely with usage and other conditions.
- · As the following consume a lot of power even without shooting, the battery will be drained quickly.
 - Performing auto focus repeatedly by pressing the shutter button halfway in shooting mode.
 - Displaying images on the monitor for a prolonged period.
 - When connected to a computer (except when powering the camera via USB).
 - Leaving wireless LAN/Bluetooth® enabled.
- When using a drained battery, the camera may turn off without the low battery warning being displayed.
- The battery will not be fully charged at the time of purchase. Charge the battery before use.
- Remove the batteries before putting the camera into storage for periods of a month or more.
 Leaving the batteries in the camera for extended periods shortens their lives, potentially rendering them unusable.
- The normal charging time using a USB-AC adapter is approximately 4 hours (estimated).
- Do not use USB-AC adapters or chargers not specifically designated for use with batteries of the supplied type. Similarly, do not use a USB-AC adapter with batteries (cameras) other than those of the designated type.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions under "A CAUTION" (P.518) in the instruction
 manual

438 Batteries

Using your USB-AC adapter abroad

- An USB-AC adapter can be used in most home electrical sources within the range of 100 V to 240 V
 AC (50/60 Hz) around the world. However, depending on the country or area you are in, the AC wall
 outlet may be shaped differently and the USB-AC adapter may require a plug adapter to match the
 wall outlet.
- Do not use third-party travel adapters as the USB-AC adapter may malfunction.

Information

Interchangeable lenses

Choose a lens according to the scene and your creative intent. Use lenses designed exclusively for the Micro Four Thirds system and bearing the M.ZUIKO DIGITAL label or the symbol shown. With an adapter, you can also use Four Thirds System lenses. The optional adapter is required.



- When you attach or remove the body cap and lens from the camera, keep the lens mount on the camera pointed downward. This helps prevent dust and other foreign matter from getting inside the camera.
- Do not remove the body cap or attach the lens in dusty places.
- Do not point the lens attached to the camera toward the sun. This may cause the camera to malfunction or even ignite due to the magnifying effect of sunlight focusing through the lens.
- Be careful not to lose the body cap and rear cap.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached.

Lens and camera combinations

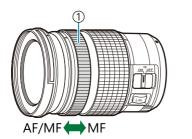
Lens	Camera	Attachment	AF	Metering
Micro Four Thirds system lens	Micro Four Thirds system camera	Yes	Yes	Yes
Four Thirds system lens		Attachment possible with mount adapter	Yes ¹	Yes

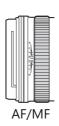
1 Not available during enlarged display, movie recording or starry sky AF.

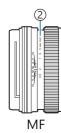
MF Clutch Lenses

The "MF clutch" (manual focus clutch) mechanism on MF clutch lenses can be used to switch between auto and manual focus simply by repositioning the focus ring.

- Check the position of the MF clutch before shooting.
- Sliding the focus ring to the AF/MF position at the end of the lens selects autofocus, while sliding
 it to the MF position closer to the camera body selects manual focus, regardless of the focus mode
 chosen with the camera.







- (1) Focus Ring
- (2) Focus distances visible
- Selecting [Inoperative] for [MF Clutch] (P.158) disables manual focus even when the MF clutch is in the MF position.

Monitor display when using a lens equipped with the SET/CALL function

The camera monitor displays " Set" when the focus position is saved using the SET option and " Call" when a saved focus position is restored using the CALL option.

For more information on SET and CALL, see the lens manual.

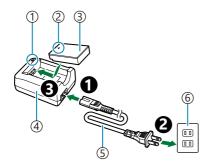




Optional Accessories

Using the charger (BCS-5)

1. Charge the battery.



- (1) Charging indicator
- ② Direction indicating mark (▲)
- (3) Lithium-ion battery
- 4 Lithium-ion charger
- (5) AC cable
- ⑥AC outlet
- Charging time is approximately 3 hours 30 minutes. See the table below for status of the charging indicators and battery charge.

Charging indicator	Battery charge
Lights orange	Charging in progress
Off	Charging complete
Blinks orange	Charging error

Designated External Flash Units

When using an optional flash unit designed for use with the camera, you can choose the flash mode using camera controls and take pictures with the flash. See the documentation provided with the flash unit for information on flash features and their use.

Choose a flash unit to suit your needs, taking into consideration such factors as the output required and whether the unit supports macro photography. Flash units designed to communicate with the camera support a variety of flash modes, including TTL auto and super FP. The camera also supports these wireless flash control systems:

Radio-Controlled Flash Photography: CMD, & CMD, RCV, and X-RCV Modes

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

Wireless Remote-Control Flash Photography: RC Mode

The camera controls one or more remote flash units by means of optical signals. The flash mode can be selected using camera controls (P.445).

Features Available with Compatible Flash Units

FL-700WR

Flash control mode	TTL-AUTO, MANUAL, FP TTL AUTO, FP MANUAL, MULTI, RC, SL MANUAL
GN (Guide Number, ISO 100)	GN 42 (75/150 mm ¹) GN 21 (12/24 mm ¹)
Supported wireless systems	CMD, \$ CMD, RCV, X-RCV, RC

FL-900R

Flash control mode	TTL-AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL, MULTI, RC, SL AUTO, SL MANUAL
GN (Guide Number, ISO 100)	GN 58 (100/200 mm ¹) GN 27 (12/24 mm ¹)
Supported wireless systems	RC

STF-8

Flash control mode	TTL-AUTO, MANUAL, RC ²
GN (Guide Number, ISO 100)	GN8.5
Supported wireless systems	RC ²

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

Wireless remote control flash photography

PASMB A



Wireless flash photography is available with compatible flash units that support wireless remote control (RC). The remote flash units are controlled via a unit mounted on the camera hot shoe. Settings can be adjusted separately for the units in up to three other groups.

RC mode must be enabled on both the master and remote flash units (P.444).

Configuring RC mode

- 1. Select [On] for [RC Mode] (P.195) and press the OK button.
 - The camera will exit to the shooting display.
 - "RC" appears on the screen.



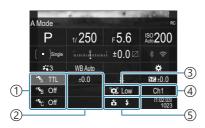
- 2. Press the OK button.
 - The RC mode super control panel will be displayed.



The standard LV super control panel can be displayed by pressing the INFO button. The
display will change each time the INFO button is pressed.

3. Adjust flash settings.

• Highlight items using the $\Delta \nabla \triangleleft \triangleright$ buttons and rotate the front dial to choose settings.



- (1) Group, flash control mode
- (2) Flash compensation
- (3)Optical signal strength
- (4)Channel
- (5) Flash mode

Group	Choose a group. Changes to settings apply to all units in the selected group. The unit mounted on the camera works as a member of Group A.
Flash control mode	Choose a flash mode.
Flash compensation	Adjust flash output. When [MANUAL] is selected for flash mode, you can choose a value for manual flash output.
Optical signal strength	Choose the brightness of the optical control signals emitted by the flash units. Choose [High] if you have placed flash units close to the maximum distance from the camera. This setting applies to all groups.
Flash mode	Choose \$ (standard) or FP (super FP). Choose super FP for shutter speeds faster than the flash sync speed. This setting applies to all groups.
Channel	Choose the channel used for flash control. Change the channel if you find that other light sources in the area are interfering with remote flash control.

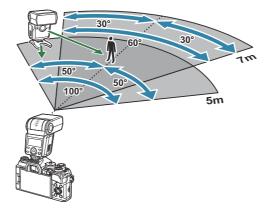
Setting up the flash

- 1. Set the remote flash units to RC mode.
 - Turn the external flash units on, press the MODE button, and select RC mode.
 - Set up the group to control with the dedicated external flash and configure their communication channels so that they match the camera settings.

- 2. Arrange the flash units.
 - Position the wireless units with the remote sensors facing the camera.
- **3.** Take pictures after confirming that the camera and flash units are charged.

Wireless Flash Control Range

The illustration is intended as a guide only. The flash control range varies with the type of flash mounted on the camera and the conditions in the surrounding area.



- We recommend that each group contain no more than 3 flash units.
- Wireless flash photography is not available in anti-shock mode or in rear-curtain slow sync mode
 when a shutter speed slower than 4 s is selected.
- Waiting times longer than 4 s cannot be selected in anti-shock and silent modes.
- Flash control signals may interfere with exposure if the subject is too close to the camera. This can be mitigated by reducing the brightness of the camera flash, for example by using a diffuser.

Other external flash units

Note the following when using a third-party flash unit mounted on the camera hot shoe:

- Using obsolete flash units that apply currents of more than about 250 V to the X-contact will damage the camera.
- Connecting flash units with signal contacts that do not conform to our specifications may damage the camera.
- Select mode **M**, choose a shutter speed no faster than the flash sync speed, and set [ISO] to a setting other than [Auto].

- Flash control can only be performed by manually setting the flash to the ISO sensitivity and aperture values selected with the camera. Flash brightness can be adjusted by adjusting either ISO sensitivity or aperture.
- Use a flash with an angle of illumination suited to the lens. Angle of illumination is usually expressed using 35-mm format equivalent focal lengths.

Principal Accessories

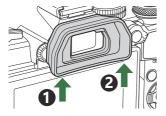
Converter lenses

Converter lenses attach to the camera lens for quick and easy fish-eye or macro photography. See our website for information on the lenses that can be used.

Eyecup (EP-16)

You can switch to a large-size eyecup.

Removal



Accessories

For the latest information, please visit our website.

Power supply



Lithium-ion battery **BLS-50**



Lithium-ion charger **BCS-5**



USB-AC adapter **F-5AC**

Viewfinder



Eyecup
EP-16 / EP-15

Remote control/release



Remote control RM-WR2

Lens

Micro Four Thirds system lenses



Four Thirds system lenses



- An MMF-2 or MMF-3 Four Thirds Adapter is required to use Four Thirds System lenses with this camera.
- There are restrictions on the lenses that can be used with the adapter. For more information, visit our website.



Converter lenses

- MC-20 (Teleconverter)
- MC-14 (Teleconverter)

- FCON-P01 (Fisheye converter)
- MCON-P02 (Macro converter)

Visit our website for information on compatible lenses.

451 Accessories

Flash



Electronic Flash FL-900R



Electronic Flash FL-700WR



Macro Flash STF-8



Wireless Radiowave Commander FC-WR



Wireless Radiowave Receiver FR-WR

Case/Strap

- Camera Case
- Shoulder Strap

Connection Cable

- USB Cable
- HDMI Cable (HDMI cables are available from third-party suppliers.)

452 Accessories

Memory Card

- SD
- SDHC
- SDXC

Memory cards are available from third-party suppliers.

Microphone

Microphones are available from third-party suppliers.

Software

Photo management/editing software for computers

OM Workspace

Smartphone app

OM Image Share

453 Accessories

Cleaning and storing the camera

Cleaning the camera

Turn off the camera and remove the battery before cleaning the camera.

• Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.

Exterior:

Wipe gently with a soft cloth. If the camera is very dirty, soak the cloth in mild soapy water and
wring well. Wipe the camera with the damp cloth and then dry it with a dry cloth. If you have used
the camera at the beach, use a cloth soaked in clean water and well wrung.

Monitor:

• Wipe gently with a soft cloth.

Lens:

 Blow dust off the lens with a commercially available blower. For the lens, wipe gently with a lens cleaning paper.

Storage

- When not using the camera for a prolonged period, remove the battery and card. Store the camera
 in a cool, dry place that is well ventilated.
- Insert the battery periodically and test the camera's functions.
- Remove dust and other foreign matter from the body and rear caps before attaching them.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached. Be sure to replace the front and rear lens caps before putting the lens away.
- · Clean the camera after use.
- Do not store the camera with insect repellent.
- Avoid storing the camera in places where chemicals are treated, in order to protect the camera from corrosion.
- Mold may form on the lens surface if the lens is left dirty.
- Check each part of the camera before use if it has not been used for a long time. Before taking
 important pictures, such as during trips overseas, be sure to take a test shot and check that the
 camera works properly.

Inspecting and Cleaning the Image Sensor

This camera incorporates a dust reduction function to keep dust from getting on the image sensor and to remove any dust or dirt from the image sensor surface with ultrasonic vibrations. The dust reduction function operates when the camera is turned on. The dust reduction function operates at the same time as the pixel mapping, which checks the image sensor and image processing circuitry. Since dust reduction is activated every time the camera's power is turned on, the camera should be held upright for the dust reduction function to be effective.

Pixel Mapping - Checking the image processing functions

Check the image sensor and image processing functions simultaneously. For best results, wait at least a minute after shooting and playback have ended before performing pixel mapping.

- **1.** Select [Pixel Mapping] (P.401).
- 2. Select [Yes] and press the OK button.
 - The [Busy] bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.
- If you accidentally turn the camera off during pixel mapping, start again from Step 1.

Shooting tips and information

The camera does not turn on even when a battery is loaded

The battery is not fully charged

• Charge the battery. Page "Charging the battery" (P.29)

The battery is temporarily unable to function because of the cold

 Battery performance drops at low temperatures. Remove the battery and warm it by putting it in your pocket for a while.

A dialog prompting you to choose a language is displayed

- The dialog is displayed in the following situations.
 - The camera is turned on for the first time.
 - You have not chosen a language.



See "Initial setup" (P.39) for information on choosing a language.

No picture is taken when the shutter button is pressed

The camera has turned off automatically

- If **[On]** is selected for **[Quick Sleep Mode]**, the camera will enter sleep mode if no operations are performed for a set period. Press the shutter button halfway to exit the sleep mode. **[Quick Sleep Mode]** (P.395)
- The camera automatically enters sleep mode to reduce the drain on the battery if no operations are performed for a set period of time. [Sleep] (P.393)
- If no operations are performed for a set time after the camera has entered sleep mode, the camera will turn off automatically. [Auto Power Off] (P.394)

The flash is charging

On the monitor, the \$\frac{\psi}{\text{mark blinks when charging is in progress. Wait for the blinking to stop, then
press the shutter button.

Unable to focus

The camera cannot focus on subjects that are too close to the camera or that are not suited to
autofocus (the AF confirmation mark will blink in the monitor). Increase the distance to the subject
or focus on a high contrast object at the same distance from the camera as your main subject,
compose the shot, and shoot.

Subjects that are difficult to focus on

It may be difficult to focus with auto focus in the following situations.

AF confirmation mark is blinking.
 The camera will not be able to focus on the following.



Subjects with low contrast Index



Excessively bright light in center of frame

- AF confirmation mark lights up but the subject is not in focus.



Subjects at different distances



Fast-moving subject



Subjects not inside AF area

Noise reduction is activated

When shooting night scenes, shutter speeds are slower and noise tends to appear in images. The
camera activates the noise-reduction process after shooting at slow shutter speeds, during which
shooting is not possible. You can set [Noise Reduction] to [Off]. [ST [Noise Reduction] (P.183)

The number of AF targets is reduced

• The size and number of available AF targets vary with group target settings (P.116) and the options chosen for [Digital Tele-converter] (P.261), [Aspect] (P.225), drive settings (P.199), and [P.199] [P.213].

The date and time has not been set

The camera is used with the settings at the time of purchase

 The date and time of the camera is not set when purchased. Set the date and time before using the camera.
 "Initial setup" (P.39)

The battery has been removed from the camera

The date and time settings will be returned to the factory default settings if the camera is left
without the battery for approximately 1 day (in-house measurements). The settings will be canceled
more quickly if the battery was only loaded in the camera for a short time before being removed.
 Before taking important pictures, check that the date and time settings are correct.

Set functions are restored to their factory default settings

- Settings altered in and SCN modes are reset to default values when the mode dial is rotated to
 another setting or the camera is turned off.
- Settings altered in custom modes (C-C4) are reset to saved values when the mode dial is rotated to another setting or the camera is turned off. If [Hold] is selected for [Save Settings] when a custom mode is selected, changes to settings will automatically be saved to the selected mode.
 "Saving the Changes Made to Settings while in Custom Modes" (P.88)

Pictures are "washed out"

• This may occur when the picture is taken in backlight or semi-backlight conditions. This is due to a phenomenon called flare or ghosting. As far as possible, consider a composition where strong light source is not taken in the picture. Flare may occur even when a light source is not present in the picture. Use a lens hood to shade the lens from the light source. If a lens hood does not have effect, use your hand to shade the lens from the light.

Unknown bright dot(s) appear on the subject in the picture taken

• This may be due to the dead pixel(s) on the image sensor. Perform [Pixel Mapping]. If the problem persists, repeat pixel mapping a few times. Pixel Mapping - Checking the image processing functions" (P.455)

Pressing a button does not activate the desired function, but a different function is activated

• Other roles may have been assigned to buttons in place of their existing functions. Check the settings in [Button Settings] (P.330).

Functions that cannot be selected from menus

Functions that cannot be set from the super control panel

• Some functions may be unavailable depending on the current shooting settings. Check if the same function is displayed in gray in the menus.

The subject appears distorted

- The following functions use an electronic shutter:
 - Movie Recording (P.90) / Silent Mode (P.207) / Pro Capture Shooting (P.209) / High Res Shot (P.245) / Focus Bracketing (P.280) / Focus Stacking (P.252) / Live ND Shooting (P.249) / HDR (P.255) / Backlight HDR and Handheld Starlight in SCN mode (P.74)

This may cause distortion if the subject is moving rapidly or the camera is moved abruptly. Avoid moving the camera abruptly during shooting, or use standard sequential shooting.

Lines appear in photographs

- The following functions use an electronic shutter, which may result in lines due to flicker and other phenomena associated with fluorescent and LED lighting:
 - Movie Recording (P.90) / Silent Mode (P.207) / Pro Capture Shooting (P.209) / High Res Shot (P.245) / Focus Bracketing (P.280) / Focus Stacking (P.252) / Live ND Shooting (P.249) / HDR (P.255) Flicker can be reduced by choosing slower shutter speeds. You can also reduce flicker using flicker scan. [P.166] [P.166]

Only the subject is displayed and no information is shown

 The display has been switched to "Image Only". Press the INFO button and switch to another display mode. "Switching the information display" (P.47)

Focus mode cannot be changed from MF (manual focus)

• The lens you are using may be equipped with the MF clutch mechanism. In this case, manual focus is selected when the focus ring is slid to the camera body side. Check the lens. IMF Clutch Lenses" (P.441)

Nothing is displayed on the monitor

• When something, e.g. your face, hand or strap, comes close to the viewfinder, the monitor turns off and the viewfinder turns on. W "Switching between displays" (P.45)

Error codes

Monitor indication	Possible cause/Corrective action
No Card	The card is not inserted, or it cannot be recognized. Insert a card. Or reinsert the card properly.
Card Error	There is a problem with the memory card. Remove and reinsert the memory card. If this does not solve the problem, format the card. If formatting fails, the card cannot be used.
Write Protect	The memory card is write-protected ("locked"). The memory card write-protect switch is in the "LOCK" position. Return the switch to the unlocked position (P.33).
Card Full	Shooting disabled; the memory card is full. Insert another memory or delete pictures. Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.
Card Full	There is not enough space on the memory card to record additional pictures. Insert another memory or delete pictures. Before deleting pictures, be sure any pictures you wish to keep have been copied to a computer.
No Picture	Playback unavailable; the memory card contains no pictures. The selected memory card contains no pictures. Take pictures before choosing playback mode.
Picture Error	The selected file is damaged and cannot be played back. Alternatively, the picture is in a format that is not supported by the camera. View the picture using computer imaging software or the like. If the picture cannot be displayed on a computer, the file may be corrupt.

461 Error codes

Monitor indication	Possible cause/Corrective action
The Image Cannot Be Edited	Camera retouch features cannot be applied to pictures recorded with other devices. Retouch the picture on a computer or other devices.
Y/M/D	The clock is not set. Set the clock (P.398).
Heat	The internal temperature of the camera has risen due to sequential shooting. Turn off the camera and wait for the internal temperature to cool.
Internal camera temperature is too high. Please wait for cooling before camera use.	The internal temperature of the camera has risen due to sequential shooting. Wait a moment for the camera to turn off automatically. Allow the internal temperature of the camera to cool before resuming operations.
Battery Empty	The battery is drained. Charge the battery.
No Connection	The camera is not correctly connected to a computer, HDMI display, or other devices. Reconnect the camera.
The lens is locked. Please extend the lens.	The lens of the retractable lens remains retracted. Extend the lens.
Please check the status of a lens.	An abnormality has occurred between the camera and the lens. Turn off the camera, check the connection with the lens, and turn the power on again.

462 Error codes

Specifications

Camera

Product type		
Product type	Digital camera with interchangeable Micro Four Thirds Standard lens system	
Lens	M.ZUIKO DIGITAL, Micro Four Thirds System Lens	
Lens mount	Micro Four Thirds mount	
Equivalent focal length on a 35 mm film camera	Approx. twice the focal length of the lens	
Image sensor		
Product type	4/3" Live MOS sensor	
Total no. of pixels	Approx. 21.77 million pixels	
No. of effective pixels	Approx. 20.37 million pixels	
Screen size	17.4 mm (H) × 13.0 mm (V)	
Aspect ratio	1.33 (4:3)	
Viewfinder		
Туре	Electronic viewfinder with eye sensor	
No. of pixels	Approx. 2.36 million dots	
Magnification	100%	
Eye point	Approx. 27 mm (-1 m ⁻¹)	

Live view		
Sensor	Uses Live MOS sensor	
Magnification	100%	
Monitor		
Product type	3.0" TFT color LCD, Vari-angle, touch screen	
Total no. of pixels	Approx. 1.04 million dots (aspect ratio 3:2)	
Shutter		
Product type	Computerized focal-plane shutter	
Shutter Speed	1/8000 – 60 sec., bulb photography, time photography	
Flash sync speed	1/250 s or slower	
Auto focus		
Product type	Hi-Speed Imager AF	
Focusing points	121 points	
Selection of focusing point	Auto, Optional	
Exposure control		
Metering system	TTL metering system (imager metering) Digital ESP metering/Center weighted averaging metering/Spot metering	
Metered range	-2 to 20 EV (F2.8, ISO 100 equivalent)	
ISO	L64; L100; 200 – 25600 in steps of 1/3 or 1 EV	
Exposure Comp.	±5.0 EV (1/3, 1/2, 1 EV step)	

White balance		
Mode setting	Auto/Preset WB (7 settings)/Customized WB/One-touch WB (camera can store up to 4 settings)	
Recording		
Memory	SD, SDHC and SDXC UHS-II compatible	
Recording system	Digital recording, JPEG (DCF2.0), RAW Data	
Compatible standard	Exif 3.0, Digital Print Order Format (DPOF)	
Sound with still pictures	Wave format	
Movie recording mode	Compliant with MPEG-4 AVC/H.264	
Audio	Stereo linear PCM, 16-bit; sampling frequency 48 kHz (wave format) Stereo linear PCM, 24-bit; sampling frequency 96 kHz (wave format)	
Playback		
Display format	Single-frame playback/Close-up playback/Index display/Calendar display	
Drive		
Drive mode	Single frame; sequential; anti-shock; silent; Pro Capture; self-timer	
Sequential shooting	Up to 6 fps () Up to 10 fps () 10 fps (ProCap) Up to 30 fps ()	
Self-timer	12 sec./2 sec./Customized	
External flash		
Flash control mode	TTL-AUTO (TTL pre-flash mode)/MANUAL	
X-Sync.	1/250 s or slower	

Wireless LAN		
Compatible standard	IEEE 802.11b/g/n	
Bluetooth®		
Compatible standard	Bluetooth Version 5.2 (Bluetooth Low Energy)	
External connector		
	USB (Type C); HDMI (type D); remote cable (ø2.5 mm mini-jack); microphone jack (ø3.5 mm stereo mini-jack)	
Power supply		
Battery	Lithium-ion Battery ×1	
Energy saving function	Switch to sleep mode: 1 minute, Power OFF: 4 hours (This function can be customized.)	
Dimensions/weight		
Dimensions	Approx. 125.3 mm (W) \times 85.2 mm (H) \times 52.0 mm (D) (4.9" \times 3.4" \times 2.0") (excluding protrusions)	
Weight	Approx. 418 g (0.9 lb.) (including battery and memory card)	
Operating environment		
Temperature	-10 °C - 40 °C (14 °F - 104 °F) (operation) / -20 °C - 60 °C (-4 °F - 140 °F) (storage)	
Humidity	30% – 90% (operation) / 10% – 90% (storage)	
Water resistance	IEC Standard publication 60529 IPX3 (applies if camera is used with our IPX3 or higher water-resistant lens)	

Lithium-ion battery

MODEL NO.	BLS-50
Туре	Rechargeable Lithium-ion battery
Nominal voltage	DC7.2 V
Nominal capacity	1210 mAh
No. of charge and discharge times	Approx. 500 times (varies with usage conditions)
Ambient temperature	0 °C - 40 °C (32 °F - 104 °F) (charging)
Dimensions	Approx. 35.5 mm (W) × 12.8 mm (H) × 55 mm (D) (1.4" × 0.5" × 2.2")
Weight	Approx. 46 g (0.1 lb.)

- The appearance and specifications of this product are subject to change without notice or obligation on the part of the manufacturer.
- Visit our website for the latest specifications.

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Default Settings

Default Settings

Super Control/LV Super Control Panel (P.469)

□₁ Tab (P.474)

1 Tab (P.482)

AF Tab (P.486)

A Tab (P.492)

Tab (P.495)

Tab (P.497)

Tab (P.505)

Super Control/LV Super Control Panel

- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

Shooting Mode: P, A, S, M, B

Role	Default role		*2	*3
Shooting Mode	Р		_	_
Shutter Speed	1/250 s (When set to S/M), Bulb (When set to B)	✓	✓	✓
Aperture Value	F5.6	✓	✓	✓
ISO	ISO Auto	✓	✓	✓
AF Target Mode	[•]Single	✓	✓	✓
Exposure Comp./				
Exposure Comp.	±0.0	✓	✓	✓
\square	All ±0.0	✓	✓	✓
Wi-Fi/Bluetooth	_	_	_	_
Picture Mode	³ir3Natural	✓	✓	✓
₩B	WB Auto		✓	✓
Kelvin	Kelvin 5400K (When [WB] is set to [CWB])		✓	_
■ Button Function	n —		✓	_
△ AF Mode	IAF Mode S-AF		✓	✓
Face & Eye Detection	⊕ Off	✓	✓	✓
Flash Mode	\$	✓	✓	✓

Role	Default role	*1	*2	*3
Flash Exposure Comp.	±0.0	~	✓	✓
Manual Value	Full (When flash is set to [#Manual])	~	✓	~
Drive 型/め		~	✓	✓
Metering		~	✓	✓
Aspect	4:3	~	✓	✓
■ Image Stabilizer	S-IS Auto	~	✓	✓
△	■F (when High Res Shot is set: MF+RAW)	~	✓	✓
2 4 :-	4K 30p L-8	~	✓	✓

Shooting Mode: ☐ (movie)

Role	Default role	*1	*2	*3
₩Mode	P	_	✓	✓
Shutter Speed	1/125 s	_	✓	✓
Aperture Value	F5.6	_	✓	✓
≌ ISO	ISO Auto	_	✓	✓
⇔ AF Target Mode	[≡]Mid	_	✓	✓
Exposure Comp./✓				
Exposure Comp.	±0.0	✓	✓	✓
	All ±0.0	✓	✓	✓
Wi-Fi/Bluetooth	_	_	_	_
₽ Picture Mode	3 Natural	✓	✓	✓
₩B	WB Auto	_	✓	✓
≅ Kelvin	5400K (When [△WB] is set to [CWB])	_	✓	_
₿ Button Function	Button Function —		✓	_
≅ AF Mode	e C-AF		✓	✓
Face & Eye Detection	@Off		✓	✓
≅ Image Stabilizer	M-IS1	_	✓	✓
22 € :-	4K 30p L-8	✓	✓	✓
Sound Recording Level	±0	_	✓	✓

Shooting Mode: RC Mode

Role	Default role	*1	*2	*3
Shooting Mode	P	✓	_	_
Shutter Speed	1/250 s (When set to S/M), Bulb (When set to B)	~	✓	✓
Aperture Value	F5.6	✓	✓	✓
∆ ISO	ISO Auto	✓	✓	✓
▲ AF Target Mode	[•]Single	✓	✓	✓
Exposure Comp./				
Exposure Comp.	±0.0	✓	✓	✓
	All ±0.0	✓	✓	✓
Wi-Fi/Bluetooth	_	_	_	_
Picture Mode	3Natural	✓	✓	✓
₩B	WB Auto	✓	✓	✓
Kelvin	5400K (When [WB] is set to [CWB])	✓	✓	_
○ Button Function	_	✓	✓	_
A Mode	Mode TTL		✓	✓
B Mode	Mode Off		✓	✓
C Mode	Off	✓	✓	✓
Flash compensation	±0 (when set to TTL/Auto)	✓	✓	✓
Flash output	sh output 1/1 (when in Manual Mode)		✓	✓
Flash Mode	\$	✓	✓	✓
\$ /FP	♦ (Normal)	✓	✓	✓

Role	Default role	*1	*2	*3
Level	Low	✓	✓	✓
Channel	Ch1	✓	✓	✓



- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. Basic Settings/Image Quality

	Role	Default role	*1	*2	*3
Custor	n Mode				
	Recall	_	_	_	_
С	Assign	Shooting Mode: P Image quality: I F+RAW	_	_	_
	Save Settings	Reset	_	✓	_
	Custom Mode Name	_	_	✓	_
	Recall	_	_	_	_
C2	Assign	Shooting Mode: P Image quality: I F+RAW	_	_	_
	Save Settings	Reset	_	✓	_
	Custom Mode Name	_	_	✓	_
	Recall	_	_	_	_
C3	Assign	Shooting Mode: P Image quality: I F+RAW	_	_	_
	Save Settings	Reset	_	✓	_
	Custom Mode Name	_	_	✓	_

		Role	Default role	*1	*2	*3
		Noic	Deliunt Fole		_	3
		Recall	_	_	_	_
	C4	Assign	Shooting Mode: P Image quality: I F+RAW	_	_	
		Save Settings	Reset	_	✓	_
		Custom Mode Name	_	_	✓	_
۵	4 :		O F	✓	✓	✓
۵	∢ ⊪ De	etailed Settings				
	€ :-1		Pixel Count: Compression: SF	✓	~	_
	4: -2		Pixel Count: Compression: F	✓	~	_
	€: •3		Pixel Count: Compression: N	~	~	_
	€: -4		Pixel Count: M1 Compression: N	✓	~	_
lma	ge Asp	pect	4:3	✓	✓	✓
lma	ge Rev	riew	Off	✓	✓	_
Sha	ding C	Comp.	Off	✓	✓	✓

2. Picture Mode/WB

	Role	Default role	*1	*2	*3			
Picture Mode		¾3 Natural	✓	✓	✓			
Picture Mode S	Settings	All items: ✓	✓	✓	_			
₩B		WB Auto	✓	✓	✓			
All WBIZ	➡ AII ₩ĐĐ							
	А-В	0	✓	✓	_			
	G-M	0	✓	✓	_			
NB AUTO Keep Warm Color		On	~	✓	_			
\$ +WB		Off	~	✓	_			
Color Space		sRGB	✓	✓	✓			

3. ISO/Noise Reduction

Role		Default role	*1	*2	*3			
□ ISO-A	■ISO-A Upper/Default							
	Upper Limit	6400	✓	✓	✓			
	Default	200	✓	✓	✓			
ISO-A	Lowest S/S	Auto	✓	✓	✓			
ISO-A	auto	P/A/S/M	✓	~	_			
ISO Step		1/3EV	✓	✓	_			
Noise Filter		Standard	✓	✓	✓			
Low ISO Processing		Drive Priority	✓	✓	~			

Role	Default role	*1	*2	*3
Noise Reduction	Auto	✓	✓	✓

4. Exposure

	Role	Default role	*1	*2	*3
Flicker Sca	an	Off	✓	✓	✓
EV Step		1/3EV	✓	✓	_
Exposure Shif	ft				
	₹	±0	✓	✓	_
	(0)	±0	✓	✓	_
	•	±0	✓	✓	_

5. Metering

Role	Default role	*1	*2	*3
Metering		~	~	~
Metering during Æ	Auto	~	~	~
AEL Auto Reset	No	~	~	~
AEL by half-pressing	S-AF Only	~	✓	~
Metering during 🖳	Yes	~	~	~
[-:-]Spot Metering	All items: ✓	~	✓	~

6. Flash

Role	Default role	*1	*2	*3
\$ RC Mode	Off	✓	✓	✓

	Role	Default role	*1	*2	*3		
\$ X-	Sync.	1/250sec	✓	✓	✓		
\$ Slo	ow Limit	1/60sec	✓	✓	✓		
3		Off	✓	✓	✓		
Flash Mode Settings							
	Reduce Red-eye	No	✓	✓	✓		
	Synchro Settings	First Curtain	✓	✓	✓		

7. Drive Mode

Role	Default role	*1	*2	*3
Drive 型/ů		✓	✓	✓
Anti-Flicker Shooting	Off	✓	✓	✓

Role	Default role	*1	*2	*3
Sequential Shooting Settings				

	✓	✓	✓	_
Max fps	6fps	✓	✓	✓
Frame Count Limiter	Off	✓	✓	✓
*	✓	✓	✓	_
Max fps	10fps	✓	✓	✓
Frame Count Limiter	Off	✓	✓	✓
♥□H	✓	✓	✓	_
Max fps	30fps	✓	✓	✓
Frame Count Limiter	Off	✓	✓	✓
ProCap	✓	✓	✓	_
Pre-shutter Frames	8	✓	✓	✓
Frame Count Limiter	25	✓	✓	✓
ProCapH	✓	✓	✓	_
Max fps	30fps	✓	✓	✓
Pre-shutter Frames	12	✓	✓	✓
Frame Count Limiter	25	✓	✓	✓

	Role	Default role	*1	*2	*3
Sel	-timer Settings				
	৩12	✓	✓	✓	_
	♥ ⊙12	☐ (without ✓)	✓	✓	_
	•92	✓	✓	✓	_
	♥ 32	✓	✓	✓	_
	క	✓	✓	✓	_
	Number of Frames	3f	✓	✓	✓
	ీ Timer	1sec	✓	✓	✓
	Interval Length	0.5sec	✓	✓	✓
	Every Frame AF	Off	✓	✓	✓
	* ⊗c	☐ (without ✓)	✓	✓	_
	Number of Frames	3f	✓	✓	✓
	ీ Timer	1sec	✓	✓	✓
	Interval Length	0.5sec	✓	✓	✓

Off

Every Frame AF

Role	Default role	*1	*2	*3			
Anti-Shock [♦] Settings							
Anti-Shock [♦]	Off	✓	✓	✓			
Waiting Time	0sec	✓	✓	_			
Silent [♥] Settings							
Waiting Time	0sec	✓	✓	_			
Noise Reduction	Off	✓	✓	_			
■)))	Not Allow	✓	✓	_			
AF Illuminator	Not Allow	✓	✓	_			
Flash Mode	Not Allow	✓	✓	_			

8. Image Stabilizer

Role	Default role	*1	*2	*3
■ Image Stabilizer	S-IS Auto	✓	✓	✓
□Image Stabilizer	Fps Priority	✓	✓	✓
■Image Stabilizer	On	_	✓	✓
Handheld Assist	Off	✓	✓	✓
Lens I.S. Priority	Off	✓	✓	✓

□₂ Tab

- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. Computational Modes

Role	Default role	*1	*2	*3
High Res Shot				
High Res Shot	Off	✓	✓	✓
■ .	50m F+RAW	✓	✓	✓
Waiting Time	0sec	✓	✓	_
\$ Charge Time	0sec	✓	✓	_
Live ND Shooting				
Live ND Shooting	Off	✓	✓	✓
ND Number	ND8(3EV)	✓	✓	_
LV Simulation	On	✓	✓	_
Focus Stacking				
Focus Stacking	Off	✓	~	~
Set number of shots	8	✓	✓	_
Set focus differential	5	✓	✓	_
\$ Charge Time	Osec	✓	✓	_
HDR	Off	✓	✓	✓

	Role	Default role	*1	*2	*3			
Mult	Multiple Exposure							
	Multiple Exposure	Off	_	✓	✓			
	Auto Gain	Off	✓	✓	_			
	Overlay	Off	_	✓	_			

2. Other Shooting Functions

Role	Default role	*1	*2	*3
Digital Tele-converter	Off	✓	✓	✓
Interval Shooting				
Interval Shooting	Off	_	~	~
Number of Frames	100	✓	~	_
Start Waiting Time	00:00:01	~	~	_
Interval Length	00:00:01	~	~	_
Interval Mode	Time Priority	~	~	_
Exposure Smoothing	On	~	~	_
Time Lapse Movie	Off	~	~	_
Movie Settings				
Movie Resolution	4K	~	✓	_
Frame Rate	10fps	~	✓	_
Keystone Comp.	Off	~	✓	✓

	Role	Default role	*1	*2	*3
Fishe	eye Compensation				
	Fisheye Compensation	Off	~	✓	✓
	Angle	1	✓	✓	_
	☼ / △ Correction	Off	✓	✓	_
BULI	B/TIME/COMP Settings				
	Bulb/Time Focusing	On	~	✓	✓
	Bulb/Time Timer	8min	~	✓	✓
	Live Composite Timer	3h	~	✓	✓
	Bulb/Time Monitor	-7	✓	✓	_
	Live Bulb	Off	~	✓	_
	Live Time	0.5sec	✓	✓	_
	Composite Settings	1/2sec	✓	✓	✓

3. Bracketing

	Role	Default role	*1	*2	*3
Al	E BKT	Off	✓	✓	✓
W	В ВКТ				
	A-B	Off	✓	✓	✓
	G-M	Off	✓	✓	✓
FL	BKT	Off	✓	✓	✓
IS	O BKT	Off	✓	✓	✓

Role	Default role		*2	*3
ART BKT				
ART BKT	Off	✓	✓	✓
ART BKT Setting	ART only: \checkmark (ART with multiple types: only the \blacksquare type is checked \checkmark .)	~	✓	_
Focus BKT				
Focus BKT	Off	✓	✓	✓
Set number of shots	99	✓	✓	_
Set focus differential	5	✓	✓	_
\$ Charge Time	0sec	~	✓	_

AF Tab

1. AF

Role	Default role	*1	*2	*3		
▲ AF Mode	S-AF	✓	✓	✓		
△ AF+MF	Off	✓	✓	✓		
Starry Sky AF Setting						
AF Priority	Speed	✓	✓	✓		
AF Operation	AF-ON Start/Stop	✓	✓	✓		
Release Priority	Off	✓	✓	✓		
▲ AF by half-pressing						
S-AF	Yes	✓	✓	✓		
C-AF/C-AF+TR	Yes	✓	✓	✓		
AF-ON in MF mode	No	✓	✓	✓		
Release Priority						
S-AF	Off	✓	✓	✓		
C-AF/C-AF+TR	On	✓	✓	✓		

^{*1:} Can be added to [Assign].

^{*2:} Default can be restored by selecting [Initialize All Settings].

^{*3:} Default can be restored by selecting [Reset Shooting Settings].

2. AF

	Role	Default role	*1	*2	*3
Face & Eye Dete	ection	Off	✓	✓	✓
≅ C-AF when §	Ø	Yes	✓	✓	_
Face & Eye A	AF Button				
	_	Priority	✓	✓	✓
	AF-ON	Priority	✓	✓	✓
Eye Detection F	rame	On	✓	✓	_

3. **AF**

Role	Default role	*1	*2	*3
AF Illuminator	On	✓	✓	✓
AF Area Pointer	On1	✓	✓	_

4. AF

Role	Default role	*1	*2	*3
© C-AF Sensitivity	±0	✓	✓	~

Role	Default role	*1	*2	*3	
C-AF Center Priority					
[÷]Cross	✓	✓	✓	✓	
[]Mid	✓	✓	✓	✓	
[iiii]Large	✓	✓	✓	✓	
[≡]C1	☐ (without ✔)	✓	✓	✓	
[=]C2	☐ (without ✔)	✓	✓	✓	
[=] C3	☐ (without ✔)	✓	✓	✓	
[=]C4	☐ (without ✔)	✓	✓	✓	
▲ AF Limiter					
AF Limiter	Off	✓	✓	✓	
Distance for On1	5.0 - 999.9m	✓	✓	_	
Distance for On2	10.0 - 999.9m	✓	✓	_	
Distance for On3	50.0 - 999.9m	✓	✓	_	
Release Priority	On	✓	✓	_	
▲ AF Scanner	□ AF Scanner On ✓ ✓ ✓				
⚠ AF Focus Adjustment					
AF Focus Adjustment	Off	✓	✓	_	
Fine-tuning Value	±0	_	✓	_	

5. Movie AF

Role	Default role	*1	*2	*3
≅ AF Mode	C-AF	✓	✓	✓
≅ C-AF Speed	±0	✓	✓	✓
≅ C-AF Sensitivity	±0	✓	✓	✓

6. AF Target Settings & Operations

Role	Default role	*1	*2	*3	
▲ AF Target Mode Settings					
[IIII]AII	✓	✓	✓	_	
[·]Single-S	✓	✓	✓	_	
[÷]Cross	✓	✓	✓	_	
[II]Mid	✓	✓	✓	_	
[III]Large	✓	✓	✓	_	
[=]C1	☐ (without ✓)	✓	✓	_	
[=]C2	☐ (without ✓)	✓	✓	_	
[=]C3	☐ (without ✓)	✓	✓	_	
[=]C4	☐ (without ✓)	✓	✓	_	
Orientation Linked [····]					
AF Target Mode	☐ (without ✓)	✓	✓	_	
AF Target Point	☐ (without ✓)	✓	✓	_	

Role	Default role	*1	*2	*3	
○ [:::] Set Home					
AF Target Mode	✓ ([]AII)	~	✓	_	
AF Target Point	✓	~	✓	_	
[::-]Select Screen Settings					
• dial	[-:-]Mode	~	✓	_	
♦ button	₽ Pos	~	✓	_	
[::-] Loop Settings					
[···] Loop Selection	Off	✓	✓	_	
Via [IIII]AII	No	~	✓	_	
AF Targeting Pad	Off	✓	✓	_	

7. MF

Role	Default role	*1	*2	*3
MF Assist				
Magnify	Off	✓	✓	_
Peaking	Off	✓	✓	_
Focus Indicator	Off	✓	✓	_
Peaking Settings				
Peaking Color	Red	✓	✓	_
Highlight Intensity	Normal	✓	✓	_
Image Brightness Adj.	Off	✓	✓	_

Role	Default role	*1	*2	*3
Preset MF distance	999.9m	✓	✓	_
MF Clutch	Operative	✓	✓	✓
Focus Ring	Ç	~	✓	_
Reset Lens	Off	✓	✓	_

≌ Tab

- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. Basic Settings/Image Quality

Role	Default role	*1	*2	*3
₩ .	4K 30p L-8	~	~	~
₩Mode	Р	_	✓	~
≅ Flicker Scan	Off	_	✓	~
≅ Digital Tele-converter	Off	_	✓	✓

2. Picture Mode/WB

	Role	Default role	*1	*2	*3		
₽ Picture Mode		Same as	✓	✓	✓		
?		Off	✓	✓	_		
₩B		WB Auto	_	✓	✓		
All WBZ							
	А-В	0	_	✓	_		
	G-M	0	_	✓	_		
₩B AUTO Keep Warm Color		On	_	✓	_		

3. ISO/Noise Reduction

	Role	Default role	*1	*2	*3				
₽mı	≅ _M ISO-A Upper/Default								
	Upper Limit	6400	_	✓	✓				
	Default	200	_	✓	✓				
≌ mISO-Auto		On	_	✓	_				
≅ Noise Filter		Standard	_	✓	✓				

4. Image Stabilizer

Role	Default role	*1	*2	*3
≅ Image Stabilizer	M-IS1	_	✓	✓

Default role

*1

*2

*3

5. Sound Recording/Connection

Role

Sound Reco	rding Settings				
Record	ding Volume				
	Built-In Ψ	±0	✓	✓	✓
	MIC Ψ	±0	✓	✓	✓
∮ Volu	ime Limiter	On	✓	✓	_
Wind I	Noise Reduction	Off	✓	✓	_
Record	ding Rate	48kHz/16bit	✓	~	_
₽ Plug	-in Power	On	✓	~	_
Camer	a Rec. Volume	Operative	✓	✓	_

	Role	Default role	*1	*2	*3				
Time Code Settings									
	Time Code Mode	Drop Frame	_	✓	_				
	Count Up	Rec Run	_	✓	_				
	Starting Time	_	_	✓	_				
æ₁	HDMI Output								
	Output Mode	Monitor	_	✓	_				
	REC Bit	Off	_	✓	_				
	Time Code	On	_	_	_				

6. Shooting Assist

Role	Default role	*1	*2	*3
Red Frame during ⊙ REC	On	✓	~	_
Recording Lamp	Low	✓	✓	_

▶ Tab

- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. File

Role	Default role	*1	*2	*3
Ф	_	_	_	_
Reset All Images	_	_	_	_
Erase All	_	_	✓	_

2. Operations

Role	Default role	*1	*2	*3
▶ ⊙ Function		_	✓	_
▶ Dial Function	▲ ••/❤️閨Q	_	✓	_
▶ Q Default Setting	Recently	_	✓	_
Quick Erase	Off	_	✓	_
RAW+JPEG Erase	RAW+JPEG	_	✓	_
RAW+JPEG <	JPEG	_	✓	_

3. Displays

Role	Default role	*1	*2	*3
Ĉ	On	_	✓	_
▶ Info Settings	All items: ✓	_	✓	_
▶ Q Info Settings	All items: ✓		✓	_

Role	Default role	*1	*2	*3
Settings	[■25] and [Calendar] : ✓	_	✓	_
Rating Settings	All items: ✓	_	✓	_



- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. Operations

		Role	Default role	*1	*2	*3
Bu	tton	Settings				
	Ô	Button Function				
		□ ᠔	(sequential shooting/self-timer)	✓	✓	_
		IOI	Ol View Selection (switch monitor/viewfinder)	✓	✓	_
		CP	Computational Modes	✓	✓	_
		•	● REC (movie recording)	✓	✓	_
		AF-ON	AF-ON	✓	✓	_
		ISO	ISO	✓	✓	_
		\$	AF Area Select (AF area select)	✓	✓	_
		•	Off	✓	✓	_
		•	Off	✓	✓	_
		0	Preview	✓	✓	_
		L-Fn	AF Stop	✓	✓	_
	2	Button Function				
		<u></u>	Off	_	✓	_
		101	[EVF Auto Switch] by pressing and holding the button	_	✓	_

Role			Default role	*1	*2	*3			
	CP		Exposure Comp.	_	✓	_			
	•		● REC (movie recording)	_	✓	_			
	AF-ON		AF-ON	_	✓	_			
	ISO		ISO	_	✓	_			
	4\$+		AF Area Select (AF area select)	_	✓	_			
	•		Off	_	✓	_			
	•		Off	_	✓	_			
	0		Magnify	_	✓	_			
	L-Fn		AF Stop	_	✓	_			
8	Shutter Function		Off	_	✓	_			
Set	ting scree	en opened k	oy OK						
	AUTO		[Live Guide]: ✓	_	✓	_			
	ART		[Art Menu]: ✓	_	✓	_			
	SCN		[Scene Menu]: ✓	_	✓	_			
Dial Se	Dial Settings								
۵	Dial Function								
	P	Lever 1	: Exposure Comp. : Program Shift	✓	✓	_			
		Lever 2	S: ISO S: WB	✓	✓	_			

Role

	Role		Default role	*1	*2	*3
	A	Lever 1	★: Exposure Comp.★: Aperture Value	~	✓	_
		Lever 2	S: ISO S: WB	~	✓	_
	S	Lever 1	Exposure Comp. S: Shutter Speed	✓	✓	_
	3	Lever 2	∷ ISO S: WB	✓	✓	_
	M/B	Lever 1	Aperture Value Structure: Speed	✓	✓	_
	IVIJ	Lever 2		✓	✓	_
2	Dial Fun	ction				
	Р	Lever 1	Exposure Comp.	_	✓	_
		Lever 2	Sound Recording Level Sound Recording Level	_	✓	_
	A	Lever 1	Exposure Comp. Aperture Value	_	✓	_
		Lever 2	Sound Recording Level Scound Recording Level	_	✓	_
	S	Lever 1	★: Exposure Comp.★: Shutter Speed	_	✓	_
	3	Lever 2	Sound Recording Level Sound Recording Level	_	✓	_

🌣 Tab

	Role			Default role *1	İ	*2	*3
	М	M	Lever 1	★: Aperture Value ★: Shutter Speed	-	✓	_
		IVI	Lever 2	: Sound Recording Level : ISO	-	✓	_
	~	Loop in	Menu Tab	No -	-	✓	_
	Dial	Directio	n				
		Exposu	ire	Dial 1	,	✓	_
		Ps		Dial 1	′	✓	_
Fr	Leve	r Setting	js				
	Ô	Fn Lever	Function	mode2 —	-	✓	_
	₽F	n Lever	Function	mode2 —	-	✓	_
	Fn Lever/Power Lever		wer Lever	Fn —	-	✓	_
Ele	Electronic Zoom Settings						
		Elec. Zoc	om Speed	Normal	,	✓	_
	≅ Elec. Zoom Speed		m Speed	Normal	,	✓	_

2. Operations

Role	Default role	*1	*2	*3
V Close Up Mode	mode2	✓	✓	_
\$\tilde{\	Off	~	✓	_
Priority Set	No	_	✓	_
Menu Cursor Settings				
Page Cursor Position	Reset	_	✓	_
Menu Start Position	Recently	_	✓	_
Shortcut to B Mode Settings	On	✓	✓	-
Press-and-hold Time				
End LVQ	0.7sec	_	✓	_
Reset LV Q Frame	0.7sec	_	✓	-
Reset 🗷	0.7sec	_	✓	-
Reset 💯	0.7sec	_	✓	-
Reset ₩B₺Z	0.7sec	_	✓	-
Reset ☑	0.7sec	_	✓	-
Reset 🕲	0.7sec	_	✓	-
Reset [···]	0.7sec	_	✓	-
Call EVF Auto Switch	0.7sec	_	✓	-
End ₩	0.7sec	_	✓	-
Reset ₩	0.7sec	_	✓	_
Switch • Lock	0.7sec	_	✓	_

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Role	Default role	*1	*2	*3
End Flicker Scan	0.7sec	_	✓	_
Call WB BKT Setting	0.7sec	_	✓	_
Call ART BKT Setting	0.7sec	_	✓	_
Call Focus BKT Setting	0.7sec	_	✓	_
Call Setting	0.7sec			
Call 🖾 Setting	1.0sec	_	✓	_

3. Live View

Role	Default role	*1	*2	*3
■ Night Vision	Off	✓	✓	_
Art LV Mode	mode1	✓	✓	_
Anti-Flicker LV	Off	✓	✓	_
Selfie Assist	On	_	✓	_

4. Information

Role	Default role	*1	*2	*3
EVF Style	Style 3	_	✓	_
■Info Settings	[Image Only], [Information 1] and [Information 2]:	✓	✓	_
Info by half-pressing	On2	✓	✓	_
☐ Info Settings	[Image Only], [Information 1] and [Information 2]:	✓	✓	_
Level Gauge	On	✓	✓	_

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Role	Default role	*1	*2	*3
₩ Info Settings	[Image Only], [Information 1]: ✓	✓	✓	_

5. Grid/Other Displays

	Role	Default role	*1	*2	*3				
ĜGı	☐ Grid Settings								
	Display Color	Preset 1	✓	✓	_				
	Displayed Grid	Off	✓	✓	_				
	Color of Preset 1	R/G/B: 38 α: 75%	✓	~					
	Color of Preset 2	R: 180 G/B: 0 α: 75%	✓	✓	_				
	Grid Settings								
	Exclusive for	Off	✓	✓	_				
	Display Color	Preset 1	✓	✓	_				
	Displayed Grid	Off	✓	✓	_				
	Color of Preset 1	R/G/B: 38 α: 75%	✓	✓	_				
	Color of Preset 2	R: 180 G/B: 0 α: 75%	✓	✓	_				

Role		Default role	*1	*2	*3		
æG	⇔ Grid Settings						
	Exclusive for 🎛	Off	✓	✓	_		
	Display Color	Preset 1	✓	✓	_		
	Displayed Grid	Off	✓	✓	_		
	Color of Preset 1	R/G/B: 38 α: 75%	✓	✓	_		
	Color of Preset 2	R: 180 G/B: 0 α: 75%	✓	✓	_		
CP E	Button Settings	All items: ✓	✓	✓	_		
Multi Function Settings		All items except [ISO]: ✓	✓	✓	_		
Histogram Settings							
	Highlight	255	✓	✓	_		
	Shadow	0	✓	✓	_		

Y Tab

- *1: Can be added to [Assign].
- *2: Default can be restored by selecting [Initialize All Settings].
- *3: Default can be restored by selecting [Reset Shooting Settings].

1. Card/Folder/File

	Role	Default role	*1	*2	*3	
Card F	ormatting	_	_	_	_	
File Na	ame	Reset	_	✓	_	
Edit Fil	Edit Filename					
	sRGB	MDD	_	✓	_	
	Adobe RGB	MDD	_	✓	_	

2. Information Record

Role		Default role	*1	*2	*3		
Lens Info Settings		Off	_	✓	_		
dpi Settings		350dpi	✓	✓	_		
Сору	Copyright Info.						
	Copyright Info.	Off	✓	✓	_		
	Artist Name	_	_	_	_		
	Copyright Name	_	_	_	_		

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3. Monitor/Sound/Connection

Role	Default role	*1	*2	*3
Touchscreen Settings	On	_	✓	_
Monitor Adjust				
☼ (Brightness)	±0	~	✓	_
 (Color temperature)	0	~	✓	_
EVF Adjust				
❖ (Brightness)	EVF Auto Luminance: Off Brightness: 0	~	~	_
 (Color temperature)	0	~	✓	_
Eye Sensor Settings				
EVF Auto Switch	On	_	✓	_
Behavior when switched	Maintain Screen	_	✓	_
When Monitor is Opened	Inoperative	_	✓	_
=)))	On	✓	✓	_
HDMI Settings				
Output Size	4K	_	✓	_
Output Frame Rate	60p Priority	_	_	_
USB Settings				
USB Mode	Select	_	✓	_
Power Supply from USB	Yes	_	✓	_

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4. Wi-Fi/Bluetooth

Role	Default role	*1	*2	*3
Airplane Mode	Off	_	✓	_
Bluetooth	Off	_	✓	_
Wireless Shutter Setting	_	_	_	_
Device Connection	_	_	_	_
☐ Settings				
Power-off Standby	Off	_	✓	_
☐ Connection Security	WPA2/WPA3	_	_	_
☐ Connection Password	_	_	_	_
Reset 🚨 Settings	_	_	_	_

5. Battery/Sleep

	Role	Default role	*1	*2	*3
Backlit LCD		Hold	✓	✓	_
Slee	0	1min	✓	✓	_
Auto Power Off		4h	✓	✓	_
Quic	k Sleep Mode				
	Quick Sleep Mode	Off	✓	✓	_
	Backlit LCD	8sec	✓	✓	_
	Sleep	10sec	✓	✓	_

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6. Reset/Clock/Language/Others

Role		Default role	*1	*2	*3
Rese	et/Initialize Settings				
	Reset Shooting Settings	_	_	_	_
	Initialize All Settings	_	_	_	_
O 9	Settings				
	•	_	_	_	_
	Time Zone	_	_	_	_
68		_	_	_	_
Leve	el Adjust	_	_	✓	_
Pixel Mapping		_	_	_	_
Firmware Version		_	_	_	_
Cert	ification	_	_	_	_

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Memory Card Capacity

Memory Card Capacity: Photos

Figures are for a 64 GB SDXC card used to record photos with an aspect ratio of 4:3.

Record mode	Image size (Pixel count)	Compression ratio	File format	File size (MB) (approx.)	Number of storable still pictures	
50 . F+RAW	(Tripod) 10368 × 7776	Loss-less	ORF			
	(Handheld) 8160 × 6120	compression	OKF	(Tripod) 168.3	(Tripod) 355	
	8160 × 6120	1/4	JPEG	(Handheld) 121.4	(Handheld) 489	
	5184 × 3888	Loss-less compression	ORI			
	(Tripod) 10368 × 7776	Loss-less compression	ORF			
25 _M F+RAW	(Handheld) 8160 × 6120		OKI	(Tripod) 157.6	(Tripod) 381	
	5760 × 4320	1/4	JPEG	(Handheld) 110.7	(Handheld) 541	
	5184 × 3888	Loss-less compression	ORI			
50 _M F	8160 × 6120	1/4	JPEG	21.7	2529	
25 _M F	5760 × 4320	1/4	JPEG	10.9	5033	

Record mode	Image size (Pixel count)	Compression ratio	File format	File size (MB) (approx.)	Number of storable still pictures
RAW		Loss-less compression	ORF	21.7	2806
■ SF	5184 × 3888	1/2.7		13.1	4209
□ F		1/4	JPEG	8.9	6180
LN		1/8		4.6	11909
M1 SF		1/2.7		5.1	10614
M1 F	3200 × 2400	1/4	JPEG	3.6	15258
M1 N		1/8		1.9	28721
M2 SF		1/2.7		2.0	27126
M2 F	1920 × 1440	1/4	JPEG	1.4	37559
M2 N		1/8		0.9	61033
S1 SF		1/2.7		1.0	54252
S1 F	1280 × 960	1/4	JPEG	0.8	69752
S1 _N		1/8		0.5	97654
S2 SF		1/2.7		0.8	69752
S2 F	1024 × 768	1/4	JPEG	0.6	97654
S2 N		1/8		0.3	244135

- The number of storable still pictures may change according to the subject, whether or not print reservations have been made, and other factors. In certain instances, the number of storable still pictures displayed on the monitor will not change even when you take pictures or erase stored images.
- The actual file size varies according to the subject.
- The maximum number of storable still pictures displayed on the monitor is 9999.

Memory Card Capacity: Movies

Figures are for a 64 GB SDXC memory card.

Movie recording ([Recording Rate]: Set to [48kHz/16bit])

Movie Resolution	Motion Compensation	Playback Frame Rate	Sensor Frame Rate	Capacity (approx.)
C4K	L-GOP	24.00p	_	34 minutes
4K	L-GOP	29.97p	_	81 minutes
		25.00p	_	81 minutes
		23.98p	_	81 minutes
FHD	A-I	29.97p	_	41 minutes
	L-GOP	25.00p	_	41 minutes
		23.98p	_	41 minutes
		59.94p	_	280 minutes
		50.00p	_	280 minutes
		29.97p	_	280 minutes
		25.00p	_	280 minutes
		23.98p	_	280 minutes

Movie recording ([Recording Rate]: Set to [96kHz/24bit])

Movie Resolution	Motion Compensation	Playback Frame Rate	Sensor Frame Rate	Capacity (approx.)
C4K	L-GOP	24.00p	_	34 minutes
4K	L-GOP	29.97p	_	79 minutes
		25.00p	_	79 minutes
		23.98p	_	79 minutes
FHD	A-I	29.97p	_	40 minutes
	L-GOP	25.00p	_	40 minutes
		23.98p	_	40 minutes
		59.94p	_	254 minutes
		50.00p	_	254 minutes
		29.97p	_	254 minutes
		25.00p	_	254 minutes
		23.98p	_	254 minutes

S&Q (slow and quick) movie

Movie Resolution	Motion Compensation	Playback Frame Rate	Sensor Frame Rate	Capacity (approx.)
C4K	L-GOP	24.00p	15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	34 minutes
4K	L-GOP	29.97p	25fps / 24fps / 15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	81 minutes
		25.00p	24fps / 15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	81 minutes
			23.98p	15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps
FHD	L-GOP	59.94p	120fps	167 minutes
		50.00p	120fps	167 minutes
		29.97p	120fps	324 minutes
			60fps / 50fps / 25fps / 24fps / 15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	280 minutes
		25.00p	120fps	324 minutes
			60fps / 50fps / 30fps / 24fps / 15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	280 minutes
		23.98p	120fps	324 minutes
			60fps / 50fps / 30fps / 25fps / 15fps / 12fps / 8fps / 6fps / 3fps / 2fps / 1fps	280 minutes

- Figures are for footage recorded at the maximum frame rate. The actual bit rate varies with the frame rate and scene recorded.
- When an SDXC card is used, movies up to 2 hours long can be recorded. Movies over 2 hours are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 2-hour limit is reached).
- When an SD/SDHC card is used, movies over 4 GB in size are recorded over multiple files (depending on shooting conditions, the camera may start recording to a new file before the 4 GB limit is reached).

SAFETY PRECAUTIONS

SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

 \triangle

An exclamation mark enclosed in a triangle alerts you to important operating and maintenance instructions in the documentation provided with the product.

⚠ WARNING

If the product is used without observing the information given under this symbol, serious injury or death may result.

⚠ CAUTION

If the product is used without observing the information given under this symbol, injury may result.

↑ NOTICE

If the product is used without observing the information given under this symbol, damage to the equipment may result.

WARNING!

TO AVOID THE RISK OF FIRE OR ELECTRICAL SHOCK, NEVER DISASSEMBLE, EXPOSE THIS PRODUCT TO WATER OR OPERATE IN A HIGH HUMIDITY ENVIRONMENT.

General Precautions

Read All Instructions — Before you use the product, read all operating instructions. Save all manuals and documentation for future reference.

Power Source — Connect this product only to the power source described on the product label.

Foreign Objects — To avoid personal injury, never insert a metal object into the product.

Cleaning — Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.

Heat — Never use or store this product near any heat source such as a radiator, heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.

Lightning — If a lightning storm occurs while using a USB-AC adapter, remove it from the wall outlet immediately.

Attachments — For your safety, and to avoid damaging the product, use only accessories recommended by our company.

Location — To avoid damage to the product, mount the product securely on a stable tripod, stand, or bracket.

↑ WARNING

- Do not use the camera near flammable or explosive gases.
- Rest your eyes periodically when using the viewfinder.
 - Failure to observe this precaution could result in eyestrain, nausea, or sensations similar to motion sickness. The length and frequency of the required rest varies with the individual; use your own judgement. If you feel tired or unwell, avoid using the viewfinder and if necessary consult a physician.
- Do not use the flash and LED (including AF illuminator) on people (infants, small children, etc.) at close range.
 - You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.
- Do not look at the sun or strong lights with the camera.
- Keep young children, infants away from the camera.
 - Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
 - Becoming entangled in the camera strap, causing strangulation.
 - Accidentally swallowing the battery, cards or other small parts.
 - Accidentally firing the flash into their own eyes or those of another child.
 - Accidentally being injured by the moving parts of the camera.
- If you find that the USB-AC adapter or charger is extremely hot or notice any unusual odors, noise, or smoke around it, unplug the power plug from wall outlet immediately and stop using it. Then, contact an authorized distributor or service center.
- Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.
 - Never remove the batteries with bare hands, which may cause a fire or burn your hands.
- Never hold or operate the camera with wet hands.
 - This may cause overheating, exploding, burning, electrical shocks, or malfunctions.
- Do not leave the camera in places where it may be subject to extremely high temperatures.
 - Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch
 fire. Do not use the charger or USB-AC adapter if it is covered (such as a blanket). This could
 cause overheating, resulting in fire.
- Handle the camera with care to avoid getting a low temperature burn.
 - When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
 - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
 - In places subject to extremely cold temperatures, the temperature of the camera's body may
 be lower than the environmental temperature. If possible, wear gloves when handling the
 camera in cold temperatures.

- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
 - Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
 - In sandy or dusty environments.
 - Near flammable items or explosives.
 - In wet places, such as bathrooms or in the rain.
 - In places prone to strong vibrations.
- The camera uses a lithium ion battery specified by our company. Charge the battery with the specified USB-AC adapter or charger. Do not use any other USB-AC adapters or chargers.
- Never incinerate or heat batteries in microwaves, on hot plates, or in pressure vessels, etc.
- Never leave the camera on or near electromagnetic devices. This may cause overheating, burning, or exploding.
- Do not connect terminals with any metallic objects.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, keys, etc.
 - The short circuit may cause overheating, exploding, or burning, which burn or damage you.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- If you cannot remove the battery from the camera, contact an authorized distributor or service center. Do not try to remove the battery by force.
 - Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.
- Always store batteries out of the reach of small children and pets. If they accidentally swallow a battery, seek medical attention immediately.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use batteries with scratches or damage to the casing, and do not scratch the battery.
- Never subject batteries to strong shocks or continuous vibration by dropping or hitting.
 This may cause exploding, overheating, or burning.
- If a battery leaks, has unusual odor, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera, and keep away from fire immediately.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Never use lithium-ion batteries in a low-temperature environment. Doing so may cause generation of heat, ignition, or explosion.
- The lithium-ion battery is designed to be used only for the digital camera. Do not use the battery to other devices

 Do not allow children or animals/pets to handle or transport batteries (prevent dangerous behaviour such as licking, putting in mouth or chewing).

Use Only Dedicated Rechargeable Battery, Battery Charger and USB-AC adapter

We strongly recommend that you use only the genuine rechargeable battery, battery charger, and USB-AC adapter specified by our company with this camera. Using a non-genuine rechargeable battery, battery charger and/or USB-AC adapter may result in fire or personal injury due to leakage, heating, ignition or damage to the battery. Our company does not assume any liability for accidents or damage that may result from the use of a battery, battery charger, and/or USB-AC adapter that are not specified genuine accessories.

CAUTION

- · Do not cover the flash with a hand while firing.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- Keep batteries dry at all times.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- This camera uses one of our lithium-ion batteries. Use the specified genuine battery. There is a risk
 of explosion if the battery is replaced with the incorrect battery type.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.

⚠ NOTICE

- Do not use or store the camera in dusty or humid places.
- Use SD/SDHC/SDXC memory cards only. Never use other types of cards.

If you accidently insert another type of card into the camera, contact an authorized distributor or service center. Do not try to remove the card by force.

- Regularly backup important data to a computer or other storage device to prevent accidental loss.
- Our company accepts no liability for any loss of data associated with this device.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects and cause serious damage.
- Before transporting the camera, remove a tripod and all other accessories made by other companies.
- Never drop the camera or subject it to severe shocks or vibrations.
- When attaching the camera to or removing it from a tripod, rotate the tripod screw, not the camera.
- Do not touch electric contacts on cameras.

- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image sensor, or may possibly cause fires.
- Do not leave the viewfinder exposed to a strong light source or direct sunlight. The heat may damage the viewfinder.
- Do not push or pull severely on the lens.
- Be sure to remove any water droplets or other moisture from the product before replacing the battery or opening or closing covers.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter button to make sure that it is operating normally.
- The camera may malfunction if it is used in a location where it is subject to a magnetic/ electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the camera off and on again before further operation.
- Always observe the operating environment restrictions described in the camera's manual.
- Insert the battery carefully as described in the operating instructions.
- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- Always unload the battery from the camera before storing the camera for a long period.
- When storing the battery for a long period, select a cool location for storage.
- Power consumption by the camera varies depending on which functions are used.
- During the conditions described below, power is consumed continuously and the battery becomes exhausted quickly.
 - Press the shutter button halfway in shooting mode to repeatedly activate autofocus.
 - Display an image on the monitor for an extended period.
 - When connected to a computer (except during USB charging).
 - Enable the wireless LAN/Bluetooth® function.
- Using an exhausted battery may cause the camera to turn off without displaying the battery level warning.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A
 recommended battery may be difficult to obtain while traveling.

Using the wireless LAN/Bluetooth[®] functions

- Turn off the camera in hospitals and other locations where medical equipment is present.

 The radio waves from the camera may adversely affect medical equipment, causing a malfunction that results in an accident. Be sure to disable wireless LAN/Bluetooth® functions in the vicinity of medical equipment (P.406).
- Turn off the camera when onboard aircraft.

 Using wireless devices onboard may hinder safe operation of the aircraft. Be sure to disable wireless LAN/Bluetooth® functions onboard aircraft (P.406).

Monitor

- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a playback mode failure or damage to the monitor.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; it will be less noticeable in playback mode.
- In places subject to low temperatures, the monitor may take a long time to turn on or its color may change temporarily.
 - When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. The monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The monitor of this product is manufactured with high-quality accuracy, however, there may be a
 stuck or dead pixel on the monitor. These pixels do not have any influence on the image to be
 saved. Because of the characteristics, the unevenness of the color or brightness may also be found
 depending on the angle, but this is due to the structure of the monitor. This is not a malfunction.

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- Our company makes no representations or warranties regarding any damages, or benefit expected by using this unit lawfully, or any request from a third person, which are caused by the inappropriate use of this product.
- Our company makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.

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