

OLYMPUS®

DIGITAL CAMERA

E-M10

Instruction Manual

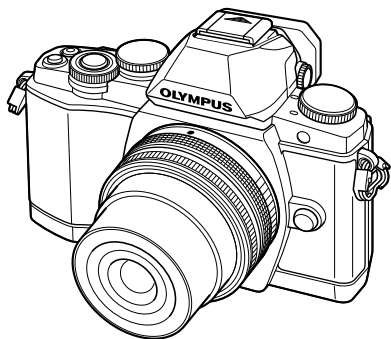


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■ Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.

■ 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.

■ The contents in this manual are based on firmware version 1.0 for this camera. If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. For the latest information, please visit the Olympus website.

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Quick task index

Shooting



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Indications used in this manual

The following symbols are used throughout this manual.

 Cautions	Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.
 Notes	Points to note when using the camera.
 Tips	Useful information and hints that will help you get the most out of your camera.
	Reference pages describing details or related information.

Unpack the box contents

The following items are included with the camera.

If anything is missing or damaged, contact the dealer from whom you purchased the camera.



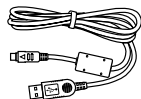
Camera



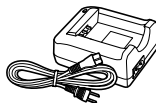
Body cap



Strap

USB cable
CB-USB6

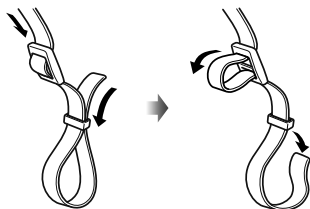
- Computer software CD-ROM
- Instruction manual
- Warranty card

Lithium ion battery
BLS-5Lithium ion charger
BCS-5

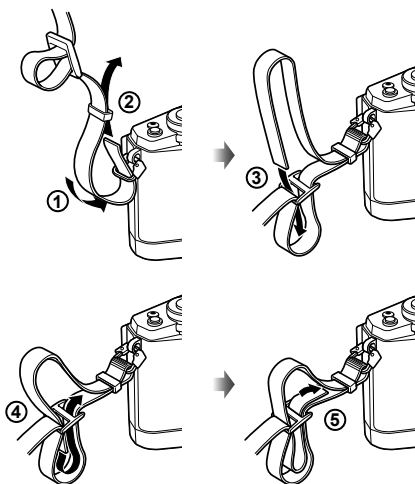
Attaching the strap

To help prevent the camera being dropped, fit the strap as shown below.

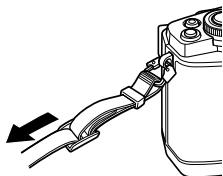
- 1 Unfasten the end of the strap and loosen the strap at the buckle portion.



- 2 Thread the strap in the direction of the arrows.

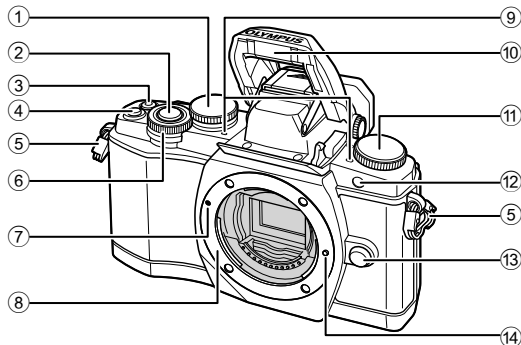


- 3 Lastly, pull the strap firmly making sure that it is fastened securely.



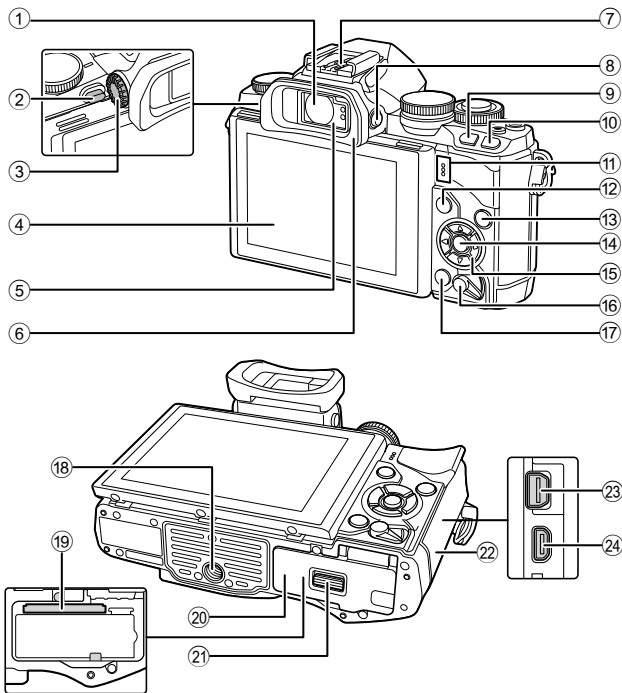
- Attach the other end of the strap to the other eyelet in the same way.

Names of parts



- | | |
|---|--|
| ① Rear dial* (☺) | ⑧ Mount (Remove the body cap before attaching the lens.) |
|P. 23, 39–42, 54, 63, 105 | ⑨ Stereo microphoneP. 58, 73, 87 |
| ② Shutter buttonP. 20 | ⑩ Internal flashP. 68 |
| ③ (Movie)/☑ buttonP. 21, 99/P. 34 | ⑪ Mode dialP. 17 |
| ④ Fn2 button.....P. 23, 50 | ⑫ Self-timer lamp/AF illuminator |
| ⑤ Strap eyelet.....P. 9 |P. 65/P. 90 |
| ⑥ Front dial* (☹).....P. 32, 39–42 | ⑬ Lens release button.....P. 14 |
| ⑦ Lens attachment markP. 14 | ⑭ Lens lock pin |

* In this manual, the ☹ and ☺ icons represent operations performed using the front dial and rear dial.



- | | |
|--|---|
| ① ViewfinderP. 18, 19, 36 | ⑬ INFO buttonP. 38, 55 |
| ② Flash switchP. 68 | ⑭ OK buttonP. 31, 74 |
| ③ Diopter adjustment dialP. 19 | ⑮ Arrow pad*P. 32 |
| ④ Monitor (Touch screen)
.....P. 15, 28, 35, 37, 55 | ⑯ ON/OFF leverP. 15 |
| ⑤ Eye sensor | ⑰ ⏮ (Erase) buttonP. 34 |
| ⑥ EyecupP. 128 | ⑱ Tripod socket |
| ⑦ Hot shoeP. 125 | ⑲ Card slotP. 13 |
| ⑧ LV buttonP. 18 | ⑳ Battery/card compartment coverP. 12 |
| ⑨ Fn1 buttonP. 51 | ㉑ Battery/card compartment lockP. 12 |
| ⑩ ▶ (Playback) buttonP. 32, 56 | ㉒ Connector cover |
| ⑪ Speaker | ㉓ Multi-connectorP. 101, 111, 114 |
| ⑫ MENU buttonP. 74 | ㉔ HDMI connector (Type D)P. 101 |

* In this manual, the Δ ∇ \triangleleft \triangleright icons represent operations performed using the arrow pad.

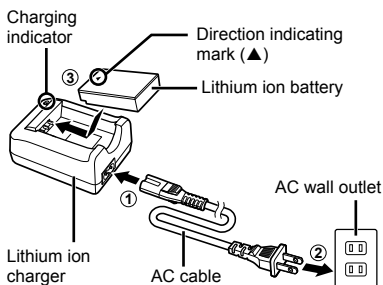
Charging and inserting the battery

1 Charging the battery.

Charging indicator

	BCS-5
Charging in progress	Lights orange
Charging complete	Off
Charging error	Blinks orange

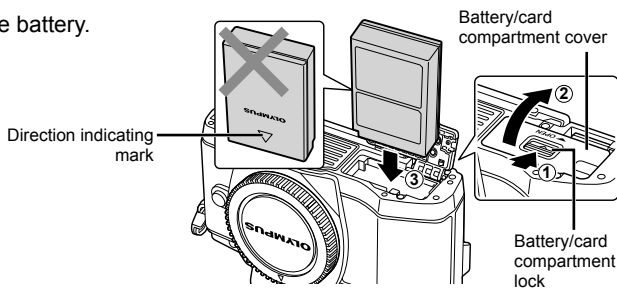
(Charging time: Up to approximately 3 hours 30 minutes)



⚠ Cautions

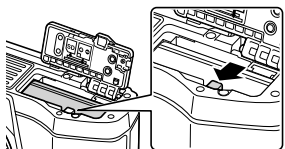
- Unplug the charger when charging is complete.

2 Loading the battery.



Removing the battery

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



⚠ Cautions

- Contact an authorized distributor or service center if you are unable to remove the battery. Do not use force.

📌 Notes

- It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.
- Also read "Battery, battery charger, and card" (P. 118).

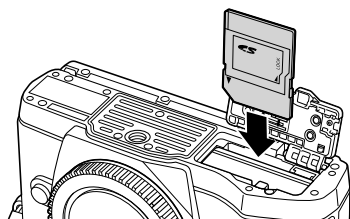
Inserting and removing cards

1 Loading the card.

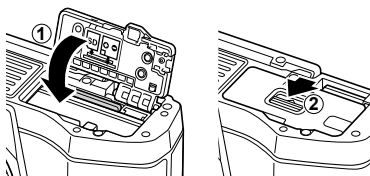
- Open the battery/card compartment cover.
- Slide the card in until it is locked into place.
☞ "Usable cards" (P. 119)

! Cautions

- Turn off the camera before loading or removing the battery or card.



2 Closing the battery/card compartment cover.



! Cautions

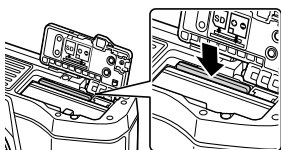
- Be sure the battery/card compartment cover is closed before using the camera.

Removing the card

Press the inserted card lightly and it will be ejected.
Pull out the card.

! Cautions

- Do not remove the battery or card while the card write indicator (P. 37) is displayed.

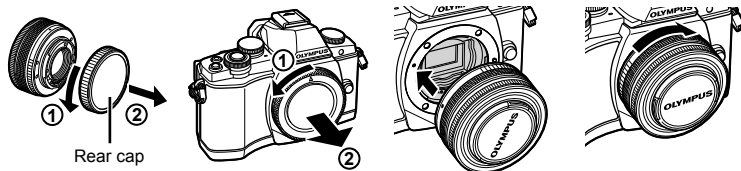


Eye-Fi Cards

Read "Usable cards" (P. 119) before use.

Attaching a lens to the camera

1 Attach a lens to the camera.



- 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.
- Rotate the lens in the direction indicated by the arrow until you hear it clicks.

⚠ Cautions

- Make sure the camera is turned off.
- Do not press the lens release button.
- Do not touch internal portions of the camera.

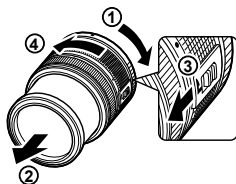
2 Remove the lens cap.



Using lenses with an UNLOCK switch

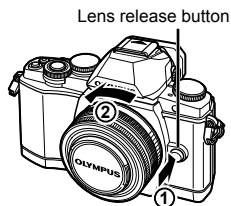
Retractable lenses with an UNLOCK switch cannot be used while retracted. Turn the zoom ring in the direction of arrow (1) to extend the lens (2).

To store, turn the zoom ring in the direction of arrow (4) while sliding the UNLOCK switch (3).



Removing the lens from the camera

While pressing the lens release button, rotate the lens in the direction of the arrow.



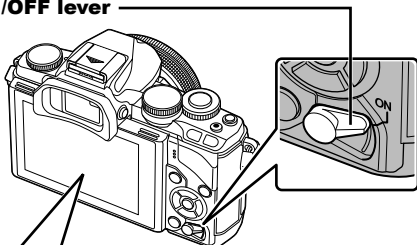
Interchangeable lenses

Read "Interchangeable lenses" (P. 121).

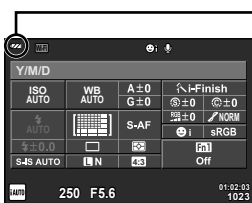
Power on

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

■ ON/OFF lever



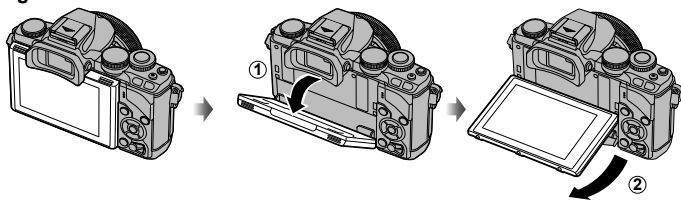
■ Monitor



Battery level

- (green): Camera ready to shoot.
- (green): Low battery
- (blinks red): Charge the battery.

Using the monitor



You can adjust the angle of the monitor.

Camera sleep operation

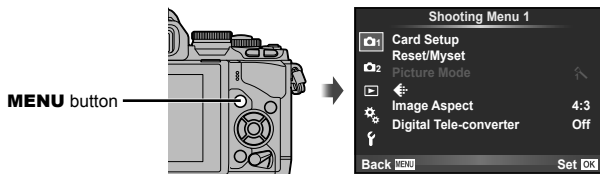
If no operations are performed for a minute, the camera enters “sleep” (stand-by) mode to turn off the monitor and to cancel all actions. The camera activates again when you touch any button (the shutter button, button, etc.). The camera will turn off automatically if left in sleep mode for 4 hours. Turn the camera on again before use.

Setting the date/time

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

1 Display the menus.

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



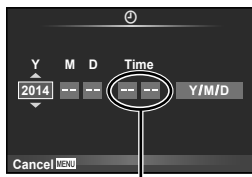
2 Select [Ⓞ] in the [f] (setup) tab.

- Use Δ ∇ on the arrow pad to select [f] and press \triangleright .
- Select [Ⓞ] and press \triangleright .



3 Set the date and time.

- Use \triangleleft \triangleright to select items.
- Use Δ ∇ to change the selected item.
- Use Δ ∇ to select the date format.



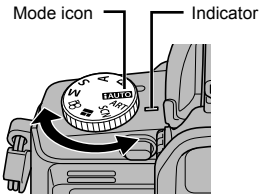
The time is displayed using a 24-hour clock.

4 Save settings and exit.

- Press **OK** to set the camera clock and exit to the main menu.
- Press the **MENU** button to exit the menus.

Selecting a shooting mode

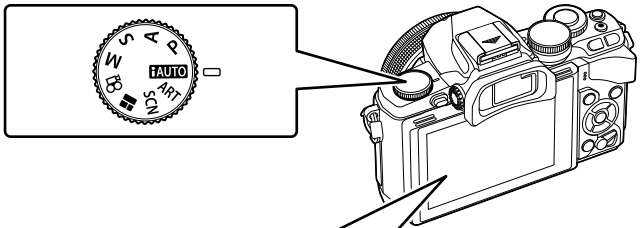
Use the mode dial to select the shooting mode.



i/AUTO	A full auto mode in which the camera automatically optimizes settings for the current scene. The camera does all the work, which is convenient for beginners.
P	Aperture and shutter speed are automatically adjusted for optimal results.
A	You control aperture. You can sharpen or soften background details.
S	You control shutter speed. You can express the motion of moving subjects, or freeze motion without any blur.
M	You control aperture and shutter speed. You can shoot with long exposures for fireworks or other dark scenes.
MOVIE	Shoot movies using shutter speed and aperture effects and movie special effects.
PHOTO STORY	You can shoot a PHOTO STORY. Shoot with selected PHOTO STORY type.
SCN	Select a scene according to the subject.
ART	Select an art filter.

First, try taking photographs in full auto mode.

- 1 Set the mode dial to **i/AUTO**.



Monitor

ISO sensitivity


Shutter speed

Aperture value

Available recording time

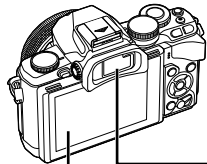
Number of storable still pictures

Selecting a shooting method

With this camera, you can select between two shooting methods: Shooting using the viewfinder and shooting using live view with the monitor. Press the  button to switch between shooting methods.

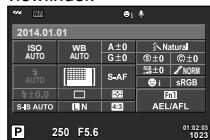
In addition, you can set various shooting functions using the super control panel, live control, and LV super control panel, depending on the shooting method.

Shooting using the viewfinder



■ Monitor

Lights up when you move your eye away from the viewfinder.




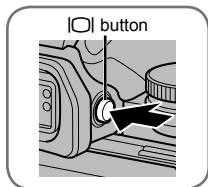
Super control panel



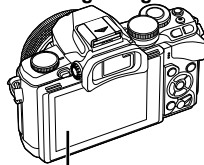
Cursor



When setting shooting functions, if you press the  button, a cursor will appear on the super control panel. Touch the function you want to set.



Shooting using live view




■ Monitor




Live view display



When setting shooting functions, if you press the  button, live control will be displayed and you can select a function by turning the rear dial.



If you press the  button while the viewfinder is lit up, live control will be displayed in the viewfinder.


(During **FAUTO** mode, a live guide is displayed.)

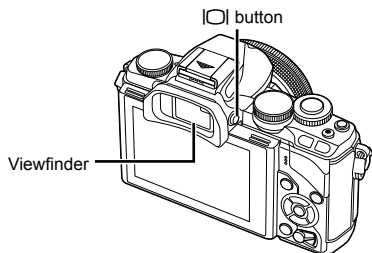
2 Shooting using the viewfinder

Shooting

The viewfinder turns on automatically when you bring it up to your eye.

While the viewfinder is on, the monitor will turn off.

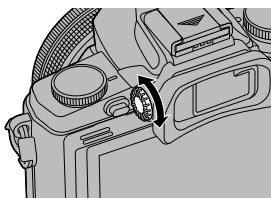
During shooting with the viewfinder, the camera will display the super control panel (P. 24) on the monitor when you move your eye away. Pressing the  button switches between live view and super control panel display.



Super control panel

If the display in the viewfinder looks blurry

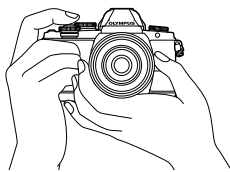
Look through the viewfinder and rotate the diopter adjustment dial until the display is in sharp focus.



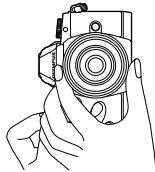
Shooting still pictures

1 Set up the camera and decide on the composition.

- The viewfinder turns on and the monitor turns off automatically when you put your eye to the viewfinder.
- Take care to ensure that your finger or the camera strap is not over the lens or AF illuminator.



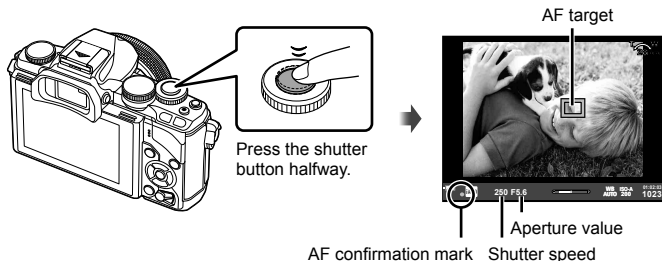
Horizontal grip



Vertical grip

2 Lightly press the shutter button down to the first position to focus. (Press halfway.)

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



- The ISO sensitivity, shutter speed and aperture value that have been set automatically by the camera are displayed.
 - If the AF confirmation mark blinks, the subject is not in focus. (P. 132)
- ## 3 Press the shutter button again to take a picture. (Press all the way down.)
- The shutter sounds and the picture is taken.
 - The shot image will be displayed on the monitor.

Pressing the shutter button halfway and all the way down

The shutter button has two positions. The act of lightly pressing the shutter button to the first position and holding it there is called “pressing the shutter button halfway,” that of pressing it all the way down to the second position “pressing the shutter all (or the rest of) the way down.”



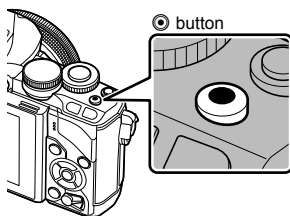
! Cautions

- You can change the viewfinder display style. In this manual, [Style 1] is used. [Built-in EVF Style] (P. 96)
- If the angle of the monitor has been changed, the viewfinder will not light up automatically.
- If you press and hold down the button, a menu is displayed that allows you to change the settings for automatically lighting up the viewfinder. [EVF Auto Switch] (P. 96)

Recording movies

You can record movies in all shooting modes except **[M]** (PHOTO STORY). First, try recording in full auto mode.

- 1 Set the mode dial to **[A/UTO]**.
- 2 Press the **[RECORD]** button.
 - The image being shot is displayed on the monitor.
 - If you look through the viewfinder, the image being recorded will be displayed.
 - You can change the focus location by touching the screen while recording (P. 28).
- 3 Press the **[RECORD]** button again to end recording.
 - When recording is complete, the super control panel will be displayed on the monitor.






Displayed during recording Recording time



! Cautions

- When using a camera with a CMOS image sensor, moving objects may appear distorted due to the rolling shutter phenomenon. This is a physical phenomenon whereby distortion occurs in the filmed image when shooting a fast-moving subject or due to camera shaking. In particular, this phenomenon becomes more noticeable when using a long focal length.
- If the camera is used for extended periods, the temperature of the image pickup device will rise and noise and colored fog may appear in images. Turn off the camera for a short time. Noise and colored fog may also appear in images recorded at high ISO sensitivity settings. If the temperature rises further, the camera will turn off automatically.
- When using a Four Thirds system lens, the AF will not operate while recording movies.
- The **[RECORD]** button cannot be used to record movies in the following instances:
Multiple exposure (still photography also ends.)/shutter button pressed halfway/during bulb, time or composite photography/sequential shooting/Panorama/**SCN** mode (e-Portrait, Hand-Held Starlight, 3D)/time lapse shooting

■ Taking photographs during movie recording

- Press the shutter button during movie recording to take a photograph while continuing to record (mode1). Press the  button to end recording. The movie and photograph files are recorded separately to the memory card. The record mode of the photographs will be  (16:9).
- There is also a way of recording a photograph of a higher quality (mode2). In mode2, the movie footage from before and after the photograph is recorded in separate files.  [Movie+Photo Mode] (P. 96)

! Cautions


- In mode2 and certain shooting modes, it is only possible to capture a single-frame as a picture during recording. Other shooting functions may also be limited.
- The autofocus and metering used in movie mode may differ from that used to take photographs.
- If the record mode for the movie is Motion JPEG ( or ), it will be set to mode2.

Setting shooting functions

Using the multi-function button

When framing pictures in the viewfinder, you can adjust settings quickly using the multi-function button. At default settings, the **Fn2** button is assigned the role of the multi-function button.

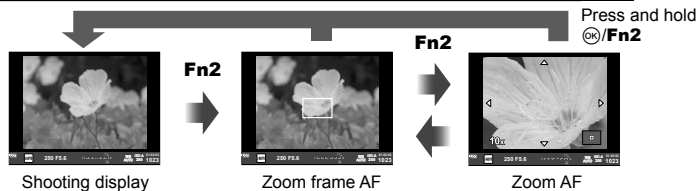
■ Choosing a function

- 1 Press and hold the **Fn2** button and rotate the dial.
 - The menus are displayed.  [Multi Function Settings] (P. 92)
- 2 Keep rotating the dial to select the desired function.
 - Release the button when the desired function is selected.

■ Using multifunction options

Press the **Fn2** button. An option selection dialog will be displayed.

Operations and screens when the [Q] function is assigned to the Fn2 button



Option screens for other functions



Highlight and shadow control options









Color Creator options



ISO sensitivity/white balance options



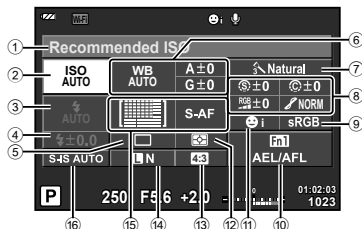
Aspect ratio options

Function	Front dial (☺)	Rear dial (☹)
 (Highlight and shadow control) (P. 50)	Highlight control	Shadow control
 (Color Creator) (P. 54)	Hue	Saturation
 (ISO sensitivity/White balance) (P. 63, 73)	ISO sensitivity	WB mode
 (White balance/ISO sensitivity) (P. 63, 73)	WB mode	ISO sensitivity
 (Zoom frame AF/zoom AF) (P. 53)	Zoom frame AF: Exposure compensation Zoom AF: Zoom in or out	
 (Image Aspect) (P. 54)	Select an option	

Using the super control panel

When shooting using the viewfinder, the super control panel will be displayed on the monitor. Set your main shooting functions using the super control panel.

Super control panel display



Settings that can be modified using the super control panel

- | | |
|--|--|
| ① Currently selected option/date | ⑨ Color space..... P. 94 |
| ② ISO sensitivity..... P. 73 | ⑩ Button function assignment P. 90, 99 |
| ③ Flash mode..... P. 68 | ⑪ Face priority..... P. 52 |
| ④ Flash intensity control..... P. 70 | ⑫ Metering mode..... P. 71 |
| ⑤ Sequential shooting/self-timer P. 65 | ⑬ Aspect ratio..... P. 54 |
| ⑥ White balance..... P. 63 | ⑭ Record mode..... P. 67 |
| White balance compensation | ⑮ AF mode..... P. 72 |
| ⑦ Picture mode..... P. 62 | AF target..... P. 51 |
| ⑧ Sharpness P. 77 | ⑯ Image stabilizer..... P. 60 |
| Contrast P. 77 | |
| Saturation P. 77 | |
| Gradation P. 77 | |
| B&W Filter P. 77 | |
| Picture tone P. 78 | |

! Cautions

- Not displayed in **SCN**, **ii**, or modes.

- Press the button.
 - The cursor appears. You can also double tap (touch twice in quick succession) to display the cursor.
- Touch the function you wish to set.
 - The cursor appears over the function you touched.
- Turn the front dial and select a setting value.

Cursor




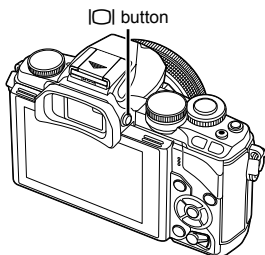
Notes

- You can display menus for each function by selecting a function and pressing .

3 Shooting using live view

Shooting

Pressing the  button switches between live view and super control panel display. When shooting using live view, the subject is displayed on the monitor.






Monitor

Shooting still pictures

- 1 Set up the camera and decide on the composition.
 - Be careful not to cover the lens with a finger or the camera strap.
- 2 Touch the area of the subject you want to focus on.
 - The camera focuses on the area you touched and automatically takes a photograph.
 - The recorded image is displayed on the monitor.



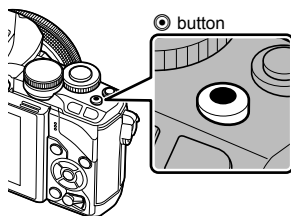
Notes

- You can also use the shutter button to take a photograph, just as you would when shooting using the viewfinder.
- You can also press the shutter button after the camera focuses on the area you touched to take a photograph.  "Using the touch screen" (P. 28)
- If you press and hold down the  button, a menu is displayed that allows you to change the settings for automatically lighting up the viewfinder.  [EVF Auto Switch] (P. 96)

Recording movies

You can record movies in all shooting modes except **[]** (PHOTO STORY). First, try recording in full auto mode.

- 1 Set the mode dial to **[AUTO]**.
- 2 Press the **[]** button to begin recording.
 - You can change the focus location by touching the screen while recording (P. 28).



- 3 Press the **[]** button again to end recording.






Displayed during recording Recording time



! Cautions

- When using a camera with a CMOS image sensor, moving objects may appear distorted due to the rolling shutter phenomenon. This is a physical phenomenon whereby distortion occurs in the filmed image when shooting a fast-moving subject or due to camera shaking. In particular, this phenomenon becomes more noticeable when using a long focal length.
- If the camera is used for extended periods, the temperature of the image pickup device will rise and noise and colored fog may appear in images. Turn off the camera for a short time. Noise and colored fog may also appear in images recorded at high ISO sensitivity settings. If the temperature rises further, the camera will turn off automatically.
- When using a Four Thirds system lens, the AF will not operate while recording movies.
- The **[]** button cannot be used to record movies in the following instances:
Multiple exposure (still photography also ends.)/shutter button pressed halfway/during bulb, time or composite photography/sequential shooting/Panorama/**SCN** mode (e-Portrait, Hand-Held Starlight, 3D)/time lapse shooting

■ Taking photographs during movie recording

- Press the shutter button during movie recording to record one of the frames of the movie as a photograph (mode1). To end movie recording, press the  button. The photograph and movie files will be recorded separately to the memory card. The record mode of the photographs will be N (16:9).
- There is also a way of recording a photograph of a higher quality (mode2). In mode2, the movie footage from before and after the photograph is recorded in separate files.
 [Movie+Photo Mode] (P. 96)

ⓘ Cautions

- In mode2 and certain shooting modes, it is only possible to capture a single-frame as a picture during recording. Other shooting functions may also be limited.
- The autofocus and metering used in movie mode may differ from that used to take photographs.
- If the record mode for the movie is Motion JPEG ( or ), the camera is set to mode2.





Using the touch screen

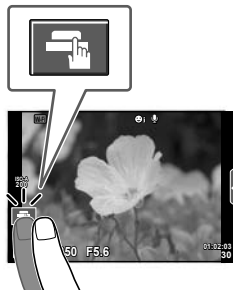
When shooting using live view, touch panel functions can be used.

Selecting a focusing method

You can focus and shoot by tapping the monitor.


Tap  to cycle through touch screen settings.

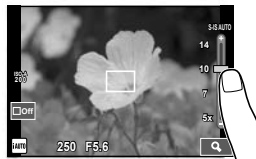
-  Tap a subject to focus and automatically release the shutter. This function is not available in  mode.
-  Touch screen operations disabled.
-  Tap to display an AF target and focus on the subject in the selected area. You can use the touch screen to choose the position and size of the focus frame. Photographs can be taken by pressing the shutter button.




■ Previewing Your Subject ()

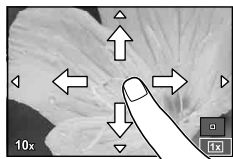
1 Tap the subject in the display.

- An AF target will be displayed.
- Use the slider to choose the size of the frame.
- Touch  to turn 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.

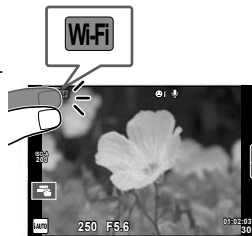
- Use your finger to scroll the display when the picture is zoomed in.
- Tap  to cancel the zoom display.



Using the wireless LAN function

You can connect the camera to a smartphone and control the camera over Wi-Fi. To use this function, you must have the relevant app installed on the smartphone.

 "Connecting the camera to a smartphone" (P. 107)

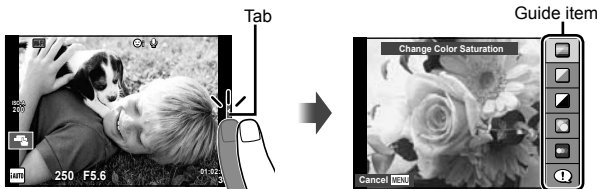


Setting shooting functions

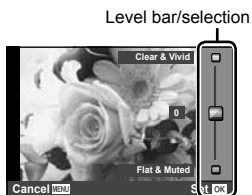
Using live guides

Live guides are available in iAUTO (iAUTO) mode. While iAUTO is a full auto mode, live guides make it easy to access a variety of advanced photographic techniques.

- 1 Set the mode dial to **iAUTO**.
- 2 Touch the tab to display live guides.
 - Select a guide item and touch it to set that item.



- 3 Use your finger to position the sliders.
 - Tap **OK** to enter the setting.
 - To cancel the live guide setting, tap **MENU** on the screen.
 - If [Shooting Tips] is selected, highlight an item and press **OK** to view a description.
 - 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 Shoot.
 - To clear the live guide from the display, press the **MENU** button.



Notes

- Live guides can also be used when shooting using the viewfinder. When shooting using the viewfinder, settings are made using the dial and buttons. If you press the **OK** button, the live guide is displayed, and the rear dial is used to select items and operate the sliders.

! **Cautions**


- If [RAW] is currently selected for image quality, image quality will automatically be set to [L+N+RAW].
- 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.
- Frame rates drop when [Blurred Motion] is selected.
- The flash cannot be used with the live guide.
- Changes to live guide options cancel previous changes.
- Choosing live guide settings that exceed the limits of the camera exposure meters may result in pictures that are over or underexposed.

Using live control


When shooting using live view, live control can be used to set functions in **P**, **A**, **S**, **M**, , and  modes. Using live control allows you to preview the effects of different settings in the monitor.



■ Available settings

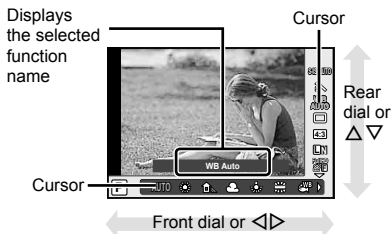
Image stabilizer	P. 60	Record mode	P. 67
Picture mode	P. 62	Flash mode	P. 68
Scene mode	P. 47	Flash intensity control.....	P. 70
Art filter mode	P. 49	Metering mode.....	P. 71
 mode	P. 66	AF mode	P. 72
White balance.....	P. 63	ISO sensitivity.....	P. 73
Sequential shooting/self-timer	P. 65	Face priority.....	P. 52
Aspect ratio.....	P. 54	Movie sound record	P. 73

1 Press to display the live control.

- To hide the live control, press  again.

2 Use the rear dial to select the settings, use the front dial to change the selected setting, and press .


- The selected settings take effect automatically if no operations are performed for about 8 seconds.



Cautions


- Some items are not available in some shooting modes.

Notes

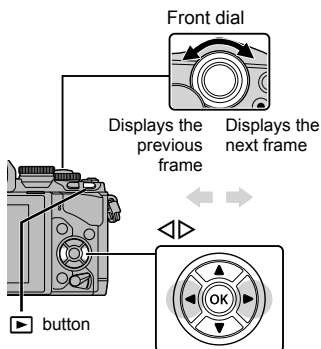
- Live control can also be used when shooting using the viewfinder. If you press the  button during viewfinder display, live control will be displayed in the viewfinder. If the viewfinder is switched off while shooting is in progress, live control will also be canceled.

4 Viewing photographs and movies

Viewing photographs and movies

1 Press the  button.

- Your most recent photograph or movie will be displayed.
- Select the desired photograph or movie using the front dial or arrow pad.





Still image



Movie

Index display/Calendar display

- To start index playback, turn the rear dial to  during single-frame playback. To start calendar playback, turn the dial a little further.
- Turn the rear dial to  to return to single-frame playback.



Viewing still images

Close-up playback

In single-frame playback, turn the rear dial to to zoom in. Turn to to return to single-frame playback.



Watching movies

Select a movie and press the button to display the playback menu. Select [Movie Play] and press the button to begin playback. To interrupt movie playback, press the **MENU** button.



Volume

Volume can be adjusted by pressing or during single-frame and movie playback.



Protecting images

Protect images from accidental deletion. Display an image you wish to protect and press the **Fn2** button; a (protect) icon will appear on the image. Press the **Fn2** button again to remove protection.

You can also protect multiple selected images.

"Selecting images" (P. 34)



(protect) icon




Cautions

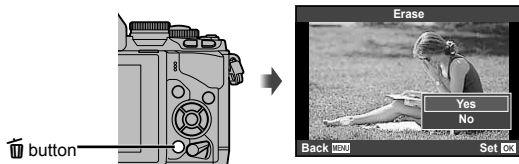
- Formatting the card erases all images even if they have been protected.

Erasing images

Display an image you want to delete and press the  button. Select [Yes] and press the  button.



You can erase images without the confirmation step by changing the button settings.


 [Quick Erase] (P. 95)





Selecting images

Select the image. You can also select multiple images for sharing, protection or deletion all at once.

Press the  button to select an image; a  icon will appear on the image.

Press the  button again to cancel the selection.

Press  to display the menu, and then select from [Share Order Selected],  and [Erase Selected].



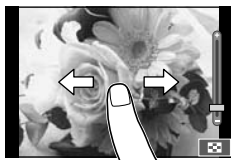
Using the touch screen

You can use the touch panel to manipulate images.

■ Full-frame playback

Viewing additional images

- Slide your finger to the left to view later frames, right to scroll view earlier frames.



Playback zoom

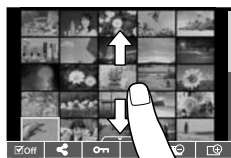
- Slide the bar up or down to zoom in or out.
- Use your finger to scroll the display when the picture is zoomed in.
- Tap to display index playback.
- Tap again for calendar playback.



■ Index/Calendar Playback

Page ahead/Page back

- Slide your finger up to view the next page, down to view the previous page.
- Use or to choose the number of images displayed.
- Tap several times to return to single-frame playback.



Viewing images

- Tap an image to view it full frame.

Selecting and protecting images

In single-frame playback, lightly touch the screen to display the touch menu. You can then perform the desired operation by touching the icons in the touch menu.

	Select an image. You can select multiple images and delete them collectively.
	You can set the images you wish to share over Wi-Fi connection. [Share Order] (P. 108)
	Protects an image.

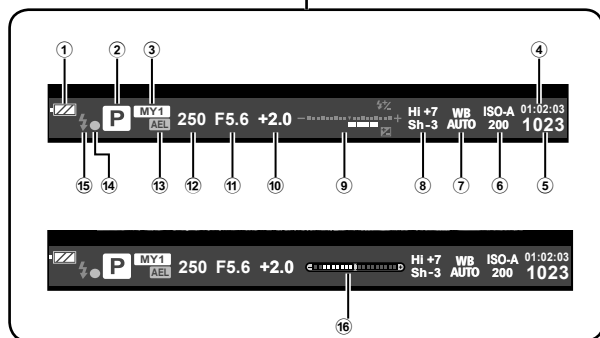
! Cautions

- The situations in which touch screen operations are not available include the following.
 - Panorama/3D/e-portrait/multiple exposure/during bulb, time or live composite photography/one-touch white balance dialog/when buttons or dials are in use
- Do not touch the display with your fingernails or other sharp objects.
- Gloves or monitor covers may interfere with touch screen operation.
- Also available in the **ART**, **SCN** or **II** menu screens. Tap an icon to select it.

5 Basic operations

Information displays while shooting

Viewfinder display when shooting using the viewfinder

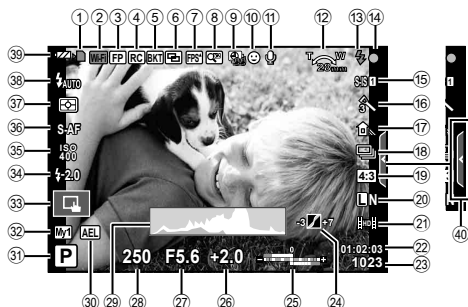


- ① Battery check
 Lit up: Ready for use.
 Lit up: Battery is running low.
 Blinks (red) : Charging required.
- ② Shooting mode.....P. 17, 39–49
- ③ Myset.....P. 76
- ④ Available recording time
- ⑤ Number of storable still pictures ...P. 120
- ⑥ ISO sensitivity.....P. 73
- ⑦ White balance.....P. 63
- ⑧ Highlight and shadow control.....P. 50
- ⑨ Top: Flash intensity controlP. 70
 Bottom: Exposure compensation indicatorP. 50
- ⑩ Exposure compensation value.....P. 50
- ⑪ Aperture valueP. 39–42
- ⑫ Shutter speedP. 39–42
- ⑬ AE Lock **[AEL]**.....P. 50
- ⑭ AF confirmation mark.....P. 20
- ⑮ Flash.....P. 68
 (blinks: charging in progress)
- ⑯ Level gauge (displayed by pressing the shutter button down halfway).....P. 38

You can change the viewfinder display style. In this manual, [Style 1] is used.

[Built-in EVF Style] (P. 96)

Monitor display when shooting using live view



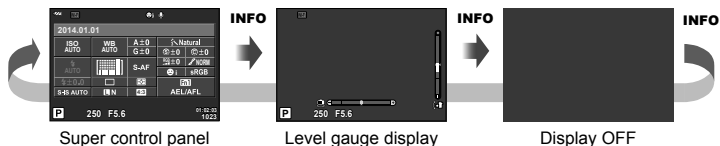
- | | |
|---|--|
| ① Card write indicator.....P. 13 | ②② Available recording time |
| ② Wireless LAN connection.....P. 28, 110 | ②③ Number of storable still pictures ...P. 120 |
| ③ Super FP flashP. 125 | ②④ Highlight and shadow control.....P. 50 |
| ④ RC mode.....P. 125 | ②⑤ Top: Flash intensity controlP. 70 |
| ⑤ Auto bracket/HDR.....P. 79/P. 81 | Bottom: Exposure compensation indicator.....P. 50 |
| ⑥ Multiple exposure.....P. 82 | ②⑥ Exposure compensation value.....P. 50 |
| ⑦ High frame rate.....P. 91 | ②⑦ Aperture valueP. 39–42 |
| ⑧ Digital Tele-converterP. 84 | ②⑧ Shutter speedP. 39–42 |
| ⑨ Time lapse shooting.....P. 83 | ②⑨ HistogramP. 38 |
| ⑩ Face priorityP. 52 | ③⑩ AE LockP. 50 |
| ⑪ Movie soundP. 73 | ③⑪ Shooting mode.....P. 17, 39–49 |
| ⑫ Zoom operation direction/
Focal length/Internal temperature
warning °C/°FP. 124/P. 135 | ③⑫ MysetP. 76 |
| ⑬ FlashP. 68 | ③⑬ Shooting using touch screen
operations.....P. 28 |
| (blinks: charging in progress,
lights up: charging completed) | ③⑭ Flash intensity control.....P. 70 |
| ⑭ AF confirmation mark.....P. 20 | ③⑮ ISO sensitivity.....P. 73 |
| ⑮ Image stabilizer.....P. 60 | ③⑯ AF modeP. 72 |
| ⑯ Art filterP. 49 | ③⑰ Metering mode.....P. 71 |
| ⑰ Scene mode.....P. 47 | ③⑱ Flash mode.....P. 68 |
| Picture mode.....P. 62 | ③⑲ Battery check |
| ⑱ White balanceP. 63 | Lit up (green): Ready for use.
(Displayed for about ten seconds
after the camera is
turned on.) |
| ⑲ Sequential shooting/self-timerP. 65 | Lit up (green): Battery is running
low. |
| ⑲ Aspect ratio.....P. 54 | Blinks (red): Charging required. |
| ⑲ Record mode (still images).....P. 67 | ④⑰ Live guide recall.....P. 29 |
| ⑲ Record mode (movies)P. 68 | |

Switching the information display

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

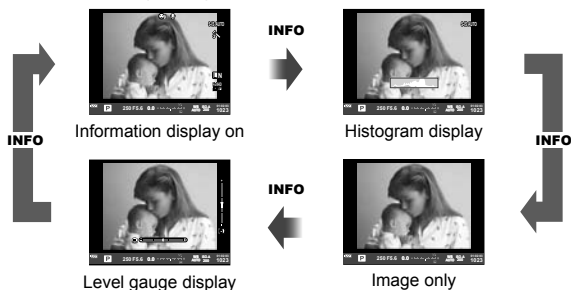
■ When shooting using the viewfinder

Monitor display

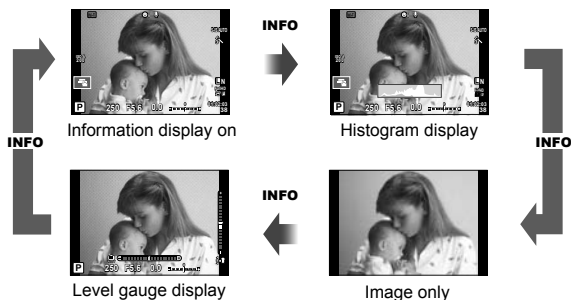


Viewfinder display

Can be switched while looking through the viewfinder.



■ When shooting using Live View



Histogram display

Display a histogram showing the distribution of brightness in the image. 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 the area metered using spot metering in green.

Level gauge display

Indicate the orientation of the camera. The “tilt” direction is indicated on the vertical bar and the “horizon” direction on the horizontal bar. Use the indicators on the level gauge as a guide.

Using the shooting modes

“Point-and-shoot” photography (P program mode)

In mode **P**, the camera automatically adjusts shutter speed and aperture in response to subject brightness. Set the mode dial to **P**.



When shooting using the viewfinder



Shooting mode **P** When shooting using live view

- The shutter speed and aperture selected by the camera are displayed.
- You can use the front dial to select exposure compensation.
- You can use the rear dial to select program shift.
- The shutter speed and aperture displays will blink if the camera is unable to achieve correct exposure.

Warning display example (blinking)	Status	Action
	The subject is too dark.	<ul style="list-style-type: none">• Use the flash.
	The subject is too bright.	<ul style="list-style-type: none">• The metered range of the camera is exceeded. A commercially available ND filter (for adjusting the amount of light) is required.

- The aperture value at the moment when its indication blinks varies with the lens type and focal length of the lens.
- When using a fixed [ISO] setting, change the setting. [ISO] (P. 73)

Program shift (Ps)

In **P** and **ART** modes, you can choose different combinations of aperture value and shutter speed without altering exposure. Turn the rear dial to program shift so that “s” appears next to the shooting mode. To cancel program shift, turn the rear dial until “s” is no longer displayed.

Cautions

- Program shift is not available when you are using a flash.



Program shift

Tips

- To change the functions assigned to the front and rear dials: [Dial Function] (P. 90)

Choosing aperture (A aperture-priority mode)

In mode **A**, you choose the aperture and let the camera automatically adjust shutter speed for correct exposure. Rotate the mode dial to **A** and then use the rear dial to select an aperture value.

- You can use the front dial to select exposure compensation.
- Larger apertures (lower F-numbers) decrease depth of field (the area in front of or behind the focus point that appears to be in focus), softening background details. Smaller apertures (higher F-numbers) increase depth of field.



Aperture value

When shooting using live view

5

Setting the aperture value

Decreasing aperture value ←

→ Increasing aperture value

F2.8 ← F4.0 ← **F5.6** → F8.0 → F11

- The shutter speed display will blink if the camera is unable to achieve correct exposure.

Warning display example (blinking)	Status	Action
	The subject is underexposed.	<ul style="list-style-type: none">• Decrease the aperture value.
	The subject is overexposed.	<ul style="list-style-type: none">• Increase the aperture value.• If the warning display does not disappear, the metered range of the camera is exceeded. A commercially available ND filter (for adjusting the amount of light) is required.

- The aperture value at the moment when its indication blinks varies with the lens type and focal length of the lens.
- When using a fixed [ISO] setting, change the setting. [ISO] (P. 73)



Tips

- To change the functions assigned to the front and rear dials: [Dial Function] (P. 90)

Choosing shutter speed (S shutter-priority mode)

In mode **S**, you choose the shutter speed and let the camera automatically adjust aperture for correct exposure. Rotate the mode dial to **S** and then use the rear dial to select shutter speed.

- You can use the front dial to select exposure compensation.
- A fast shutter speed can freeze a fast action scene without any blur. A slow shutter speed will blur a fast action scene. This blurring will give the impression of dynamic motion.





Shutter speed
When shooting using live view


Setting the shutter speed

Slower shutter speed ← → Faster shutter speed

60" ← 15" ← 30 ← **60** → 125 → 250 → 4000

- The aperture value display will blink if the camera is unable to achieve correct exposure.

Warning display example (blinking)	Status	Action
2000  F2.8	The subject is underexposed.	<ul style="list-style-type: none"> • Set the shutter speed slower.
125  F22	The subject is overexposed.	<ul style="list-style-type: none"> • Set the shutter speed faster. • If the warning display does not disappear, the metered range of the camera is exceeded. A commercially available ND filter (for adjusting the amount of light) is required.

- The aperture value at the moment when its indication blinks varies with the lens type and focal length of the lens.
- When using a fixed [ISO] setting, change the setting.  [ISO] (P. 73)

Tips

- To change the functions assigned to the front and rear dials:  [Dial Function] (P. 90)

Choosing aperture and shutter speed (M manual mode)

In mode **M**, you choose both the aperture and the shutter speed. At a speed of BULB, the shutter remains open while the shutter button is pressed. Rotate the mode dial to **M**, and then use the front dial to select aperture value and the rear dial to select shutter speed.

- You can adjust the aperture value and shutter speed using the difference from a correct exposure (measured by the camera) as guidance.
- When the difference from the correct exposure is negative (underexposure) reduce the aperture value or slow the shutter speed.
- When the difference from the correct exposure is positive (overexposure), increase the aperture value or increase the shutter speed.
- Shutter speed can be set to values between 1/4000 and 60 seconds or to [BULB] or [LIVE TIME], or [LIVECOMP].



Difference from correct exposure
When shooting using live view

! Cautions

- Exposure compensation is not available in **M** mode.

💡 Tips

- To change the functions assigned to the front and rear dials:  [Dial Function] (P. 90)

Choosing when the exposure ends (bulb/time photography)

Use for night landscapes and fireworks. In **M** mode, set the shutter speed to [BULB] or [LIVE TIME].

Bulb photography (BULB): The shutter remains open while the shutter button is pressed. The exposure ends when the shutter button is released.





Time photography (TIME): 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 again.

- During bulb or time photography, the screen brightness changes automatically.
- When using [LIVE TIME], the progress of the exposure will be displayed in the monitor during shooting. The display can also be refreshed by pressing the shutter button halfway.
- [Live BULB] (P. 93) can be used to display the image exposure during bulb photography.

Choosing when the shooting ends while viewing the change in composition as time elapses (live composite photography)

Use for building a composite image from bright portions in the shot (such as fireworks, stars etc.) without changing the brightness of the background.

- 1 Set an exposure time to be the reference in [Composite Settings] (P. 93).
- 2 In **M** mode, set the shutter speed to [LIVECOMP].
 - When the shutter speed is set to [LIVECOMP], you can display the [Composite Settings] by pressing the **MENU** button.
- 3 Press the shutter button to take an image that will be used for noise reduction.
 - Once you have taken this image, you are ready to shoot.

	Multi Echo	Apply an after-image effect. After-images will appear behind moving objects.
	One Shot Echo	An after-image will appear for a short time after you press the button. The after-image will disappear automatically after a while.
	Art Fade	Film with the selected picture mode effect. The fade effect is applied to the transition between scenes.
	Movie Tele-converter	Zoom in on an area of the image without using the lens zoom. Zoom in on the selected position of the image even while the camera is kept fixed.

Multi Echo

Touch the icon to apply the effect. Touch again to cancel the effect.




One Shot Echo

Each touch of the icon adds to the effect.

Art Fade

Touch the icon. Touch the picture mode you wish to use. The effect will be applied when you release your finger.

Movie Tele-converter

- 1 Touch the icon to display the zoom frame.
 - You can change the position of the zoom frame by touching the screen or using $\Delta \nabla \langle \rangle$.
 - Press and hold OK to return the zoom frame to a central position.
- 2 Touch  or press the **Fn2** button to zoom in on the area in the zoom frame.
 - Touch  or press the **Fn2** button to return to the zoom frame display.
- 3 Touch  or press OK to cancel the zoom frame and exit Movie tele-converter mode.





! Cautions

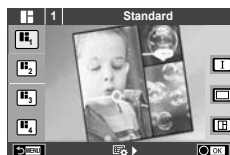
- The frame rate will drop slightly during recording.
- The 2 effects cannot be applied simultaneously.
- Use a memory card with an SD speed class of 6 or better. Movie recording may end unexpectedly if a slower card is used.
- When mode1 has been set for taking photographs during movie recording (P. 22, 27, 96), you cannot take photographs while using movie effects.
- [e-Portrait], [Diorama] and [Color Creator] cannot be used at the same time as Art Fade.
- Movie Tele-converter cannot be used when [Picture Mode] is set to [ART].
- The sound of touch operations and button operations may be recorded.

Using PHOTO STORY

1 Rotate the mode dial to .

- A PHOTO STORY menu will be displayed.





	Standard
	Speed
	Zoom In/Out
	Fun Frames



2 Use Δ / ∇ to choose the theme of the PHOTO STORY.

- You can choose different effects, number of frames and aspect ratios for each theme. You can also change the aspect ratio, the division pattern and the frame effect of individual images.

Changing between variations

	Original PHOTO STORY
  	PHOTO STORY with effects and aspect ratios changed from the original PHOTO STORY. The number of images and arrangement of image regions can be altered for each theme of the PHOTO STORY.

- You can change the frame color and frame surrounding effect in each variation.
- Every theme and variation provides a different PHOTO STORY.

3 After finishing the settings, press .



- The monitor switches to PHOTO STORY display.
- The subject of current frame is displayed in live view.
- Touch any of the frames not containing an image to set that frame as the current frame.
- Press the **MENU** button to change the theme.

4 Shoot an image for the first frame.

- The image you have shot is displayed in the first frame.



5 Shoot an image for the next frame.

- View and shoot the subject for the next frame.
- Press  to cancel the image in the directly preceding frame and retake the shot.
- Touch any frame to cancel the image in it and retake the shot. Touch the frame, and then touch .



Shot image

Next frame (Live view display)

- 6** Once you have shot all the frames, press **OK** to save the image.
- Press the **MENU** button, and you can select other themes.

Notes

- During the shooting of a PHOTO STORY, the following operations are available.
Exposure compensation/Program shift/Flash shooting (except when the theme is [Speed])/Live control settings

Cautions

- If the camera is turned off during shooting, all the data for images up to that point is cancelled and nothing is recorded on the memory card.
- If [RAW] is currently selected for image quality, image quality will automatically be set to [L+N+RAW]. The PHOTO STORY image is saved as JPEG and the images in the frames as RAW. RAW images are saved in [4:3].
- From among the [AF Mode], [S-AF], [MF] and [S-AF+MF] can be set. Also, the AF target is fixed to a single central point.
- The metering mode is fixed to digital ESP metering.
- The following operations are not available in PHOTO STORY mode.
MENU display/Movie/Sequential shooting/Self timer/INFO display/Face priority AF/Digital Tele-converter/Picture mode
- The following button operations are disabled.
Fn1/Fn2/INFO etc.
- During the shooting of a PHOTO STORY, the camera will not go into sleep mode.

Shooting in scene mode

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

- A menu of scene menu will be displayed. Select a scene using $\Delta \nabla$.
- On the scene menu screen, press \triangleright to display details of the scene mode on the camera monitor.
- Press \odot or press the shutter button halfway to select the highlighted item and exit the scene menu.



■ Types of scene modes

- | | |
|---------------------|------------------|
| Portrait | Macro |
| e-Portrait | Nature Macro |
| Landscape | Candle |
| Landscape+Portrait | Sunset |
| Sport | Documents |
| Hand-Held Starlight | Panorama (P. 48) |
| Night Scene | Fireworks |
| Night+Portrait | Beach & Snow |
| Children | Fisheye Effect |
| High Key | Wide-Angle |
| Low Key | Macro |
| DIS Mode | 3D Photo |


2 Shoot.

- To choose a different setting, press \odot to display the scene menu.

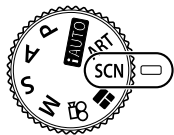
! Cautions






- To maximize the benefits of the scene modes, some of the shooting function settings are disabled.
- In [e-Portrait] mode, two images are recorded: an unmodified image and a second image to which [e-Portrait] effects have been applied. Recording may take some time. In addition, when the image quality mode is [RAW], the image is recorded in RAW+JPEG.
- [Fisheye Effect], [Wide-Angle], and [Macro] are for use with optional converter lenses.
- Movies cannot be recorded in [e-Portrait], [Hand-Held Starlight], [Panorama], or [3D Photo] mode.
- In [Hand-Held Starlight], 8 frames are shot at one time and then combined. When the image quality mode is [RAW], a JPEG image is combined with the first RAW image and recorded in RAW+JPEG.
- [3D Photo] is subject to the following limitations.
 - [3D Photo] can be used only with a 3D lens.
 - The camera monitor cannot be used to playback images in 3D. Use a device that supports 3D display.
 - Focus is locked. In addition, flash and self-timer also cannot be used.
 - Image size is fixed at 1920 × 1080.
 - RAW photography is not available.
 - Frame coverage is not 100%.

Taking panoramas

If you have installed the supplied computer software, you can use it to join pictures together to form a panorama.  "Connecting the camera to a computer and a printer" (P. 111)

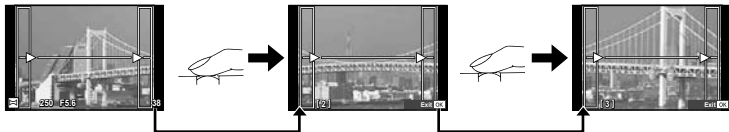
- 1 Rotate the mode dial to **SCN**.





- 2 Select [Panorama] and press .
- 3 Use     to choose a pan direction.
- 4 Take a picture, using the guides to frame the shot.
 - Focus, exposure, and other settings are fixed at the values for the first shot.



- 5 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 () is displayed after the tenth shot.

- 6 After taking the last shot, press  to end the series.

Cautions

- 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.

Notes

- Pressing  before shooting the first frame returns to the scene mode selection menu. Pressing  in the midst of shooting ends the sequence of panorama shooting, and allows you to continue with the next one.

Using art filters

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

- A menu of art filters will be displayed. Select a filter using $\Delta \nabla$.
- Press \odot or press the shutter button halfway to select the highlighted item and exit the art filter menu.



■ Types of art filters

- | | |
|------------------|--------------------------|
| Pop Art | Cross Process |
| Soft Focus | Gentle Sepia |
| Pale&Light Color | Dramatic Tone |
| Light Tone | Key Line |
| Grainy Film | Watercolor |
| Pin Hole | ART BKT (ART bracketing) |
| Diorama | |

2 Shoot.

- To choose a different setting, press \odot to display the art filter menu.

ART bracketing

When one shot is taken, images are recorded for each selected art filter. Press \triangleright to choose filters.

Art effects

Art filters can be modified and effects can be added. Pressing \triangleright in the art filter menu displays additional options.

Modifying filters

Option I is the original filter, while options II and on add effects that modify the original filter.

Adding effects*

Soft focus, pin-hole, frames, white edges, starlight, filter, tone, blur

* The effects available vary with the selected filter.

! Cautions

- To maximize the benefits of the art filters, some of the shooting function settings are disabled.
- If [RAW] is currently selected for image quality, image quality will automatically be set to [L+N+RAW]. The art filter will be applied to the JPEG copy only.
- Depending on the subject, tone transitions may be ragged, the effect may be less noticeable, or the image may become more “grainy.”
- Some effects may not be visible in live view or during movie recording.
- Playback may differ according to the filters, effects, or movie quality settings applied.

Commonly used shooting options

Controlling exposure (exposure compensation)

Rotate the front dial to choose exposure compensation. Choose positive (“+”) values to make pictures brighter, negative (“-”) values to make pictures darker. Exposure can be adjusted by ± 5.0 EV.

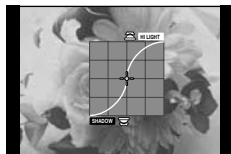


! Cautions

- Exposure compensation is not available in **FAUTO**, **M**, or **SCN** mode.
- The viewfinder and live view display can only be changed up to ± 3.0 EV. If the exposure exceeds ± 3.0 EV, the exposure bar will begin flashing.
- Movies can be corrected in a range up to ± 3.0 EV.


Changing the brightness of highlights and shadows

When the multi-function button (P. 23) is set to [Highlight&Shadow Control], a setting screen will be displayed when you press the **Fn2** button. Adjust the shadow using the rear dial and the highlight using the front dial.



Locking the exposure (AE Lock)

You can lock just the exposure by pressing the **Fn1** 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.

- You can assign the AEL/AFL function to other buttons using [Button Function] (P. 99).
- If you press the **Fn1** button once, the exposure is locked and **AEL** is displayed.
  “AEL/AFL” (P. 97)
- Press the **Fn1** button once again to release the AE Lock.

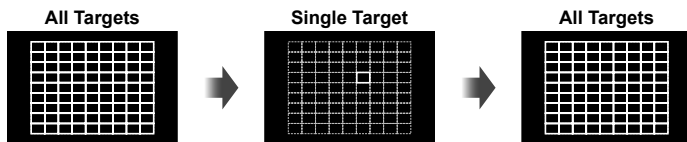
! Cautions

- The lock will be released if you operate the mode dial, **MENU** button, or **OK** button.

Choosing a focus target (AF Area)

Choose which of the 81 autofocus targets will be used for autofocus.

- 1 Press the arrow pad to display the AF target.
- 2 Rotate the dial to choose the AF position.
 - “All targets” mode is restored if you move the cursor off the screen.



The camera automatically chooses from the full set of focus targets.

Select the focus target manually.

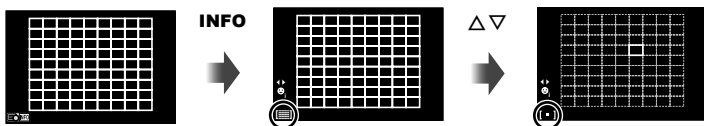
! Cautions





- When using a Four Thirds system lens, the camera automatically switches to single target mode.

Setting the AF target

You can change the target selection method and target size. You can also select Face priority AF (P. 52).

- 1 Press the **INFO** button during AF target selection and choose a selection method using Δ ∇ .



 (All Targets)	The camera selects automatically from among all the AF targets.
 (Single Target)	You select a single AF target.
 (Small Target)	The AF target can be reduced in size.
 (Group Target)	The camera automatically chooses from the targets in the selected group.

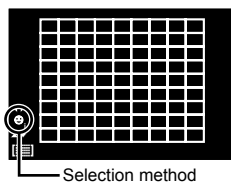
! Cautions

- When shooting movies, the camera automatically switches to single target mode.
- When using a Four Thirds system lens, the camera automatically switches to single target mode.

Face priority AF/pupil detection AF

The camera detects faces and adjusts focus and digital ESP.

- 1 Press the arrow pad to display the AF target.
- 2 Press the **INFO** button.
 - You can change the AF target selection method.
- 3 Use $\langle \triangleright$ to select an option and press \odot .



OFF	Face Priority Off	Face priority off.
	Face Priority On	Face priority on.
	Face & Eye Priority On	The autofocus system selects the pupil of the eye closest to the camera for face-priority AF.
	Face & R. Eye Priority On	The autofocus system selects the pupil of the eye on the right for face-priority AF.
	Face & L. Eye Priority On	The autofocus system selects the pupil of the eye on the left for face-priority AF.

- 4 Point the camera at your subject.
 - When shooting using the viewfinder, look through the viewfinder.
 - If a face is detected, it will be indicated by a white border.
- 5 Press the shutter button halfway to focus.
 - When the camera focuses on the face in the white border, the border will turn green.
 - If the camera is able to detect the subject's eyes, it will display a green frame over the selected eye. (pupil detection AF)
- 6 Press the shutter button the rest of the way down to shoot.



Cautions

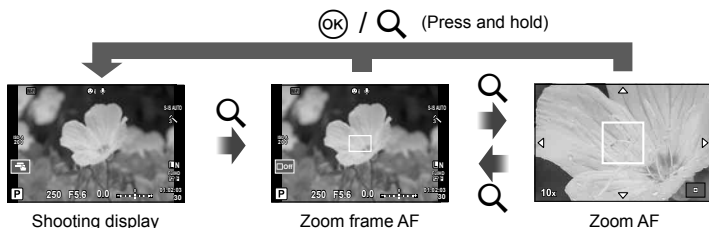
- Face priority applies only to the first shot in each sequence taken during sequential shooting.
- Depending on the subject and the art filter setting, the camera may not be able to correctly detect the face.
- When set to $\left[\text{ESP} \right]$ (Digital ESP metering)], metering is performed with priority given to faces.

Notes

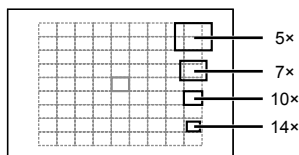
- Face priority is also available in [MF]. Faces detected by the camera are indicated by white frames.

Zoom frame AF/zoom AF

You can zoom in on a portion of the frame when adjusting focus. Choosing a high zoom ratio allows you to use autofocus to focus on a smaller area than is normally covered by the AF target. You can also position the focus target more precisely.



- 1 Assign [Q] to one of the buttons in advance using [Button Function] (P. 99).
 - Q can also be set as a multi-function button.
- 2 Press the Q button to display the zoom frame.
 - If the camera was focused using autofocus just before the button was pressed, the zoom frame will be displayed at the current focus position.
 - Use Δ ∇ \langle \rangle to position the zoom frame.
 - Press the **INFO** button and use Δ ∇ to choose the zoom ratio.



Comparison of AF and zoom frames

- 3 Press the Q button again to zoom in on the zoom frame.
 - Use Δ ∇ \langle \rangle to position the zoom frame.
 - Rotate the dial to choose the zoom ratio.
- 4 Press the shutter button halfway to initiate autofocus.
 - The camera will focus using the subject in the frame at the center of the screen. To change the focus position, move it by touching the screen.

Notes


- You can also display and move the zoom frame using touch screen operations.

Cautions

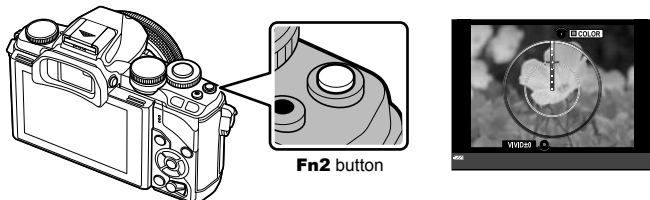
- Zoom is visible only in the monitor and has no effect on the resulting photographs.
- When you are using a Four Thirds system lens, the AF will not operate with during zoom display.


Controlling color (Color Creator)

You can adjust the color of the subject while looking through the viewfinder. Select this function with the multi-function button to use it.

Set the multi-function button to  (Color Creator) in advance (P. 23).

- 1 While looking through the viewfinder, press the **Fn2** button.
 - An options screen will be displayed in the viewfinder.



- 2 Set hue using the front dial and saturation using the rear dial.
 - The settings are stored in  (Color Creator) of picture mode (P. 62).



Cautions

- The white balance is fixed to AUTO.
- When the image quality mode is set to [RAW], the image is recorded in RAW+JPEG.

Setting the image aspect

You can change the aspect ratio (horizontal-to-vertical ratio) when taking pictures. Depending on your preference, you can set the aspect ratio to [4:3] (standard), [16:9], [3:2], [1:1], or [3:4].

Set the multi-function button to  (Aspect ratio) in advance (P. 23).

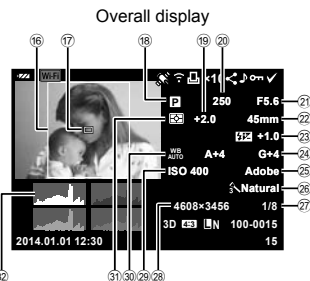
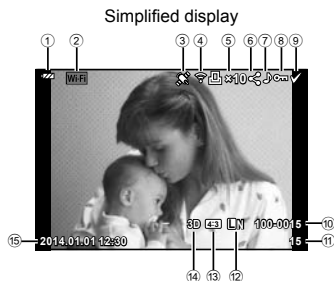
- 1 Press the **Fn2** button.
 - A menu will be displayed on the screen.
 - You can also press the  button to select aspect ratio.
- 2 Select a setting using the front dial and press the  button.

Cautions

- JPEG images are cropped to the selected aspect ratio; RAW images, however, are not cropped but are instead saved with information on the selected aspect ratio.
- When RAW images are played back, the selected aspect ratio is shown by a frame.

Information display during playback

Playback image information

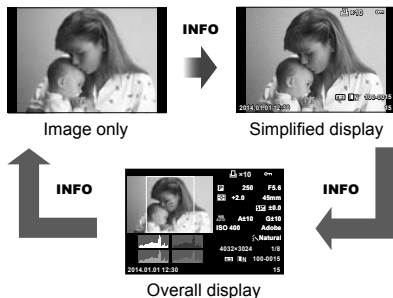


- ① Battery check P. 15
- ② Wireless LAN connection P. 28, 107
- ③ Including GPS information P. 110
- ④ Eye-Fi upload complete P. 97
- ⑤ Print reservation
Number of prints P. 116
- ⑥ Share order P. 108
- ⑦ Sound record P. 58
- ⑧ Protect P. 58
- ⑨ Image selected P. 34
- ⑩ File number P. 95
- ⑪ Frame number
- ⑫ Record mode P. 67
- ⑬ Aspect ratio P. 54
- ⑭ 3D image P. 47
- ⑮ Date and time P. 16
- ⑯ Aspect border P. 54

- ⑰ AF target P. 51
- ⑱ Shooting mode P. 17, 39–49
- ⑲ Exposure compensation P. 50
- ⑳ Shutter speed P. 39–42
- ㉑ Aperture value P. 39–42
- ㉒ Focal length P. 124
- ㉓ Flash intensity control P. 70
- ㉔ White balance compensation
- ㉕ Color space P. 94
- ㉖ Picture mode P. 62
- ㉗ Compression rate P. 67
- ㉘ Pixel count P. 67
- ㉙ ISO sensitivity P. 73
- ㉚ White balance P. 63
- ㉛ Metering mode P. 71
- ㉜ Histogram P. 38

Switching the information display

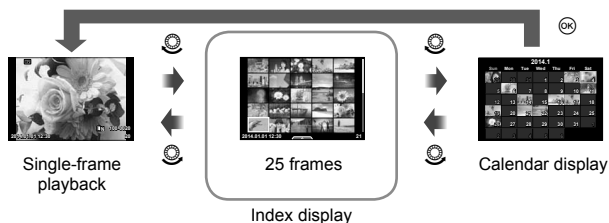
You can switch the information displayed in the monitor during playback using the **INFO** button.



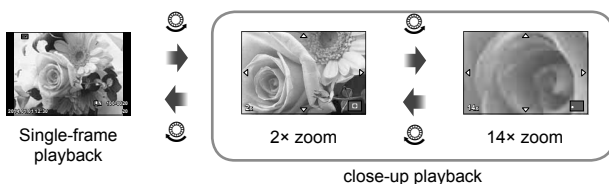
Changing the playback information display method

Press the button to view pictures full frame. Press the shutter button halfway to return to shooting mode.

Index display/calendar display



Playback zoom (close-up playback)



Rear dial (⊖)	Zoom in (⊖)/Index (⊖)
Front dial (⊕)	Previous (⊖)/Next (⊕) Operation also available during close-up playback.
Arrow pad (△ ▽ ◀ ▶)	Single-frame playback: Next (▶)/previous (◀)/playback volume (△ ▽) Close-up playback: Scroll image You can display the next frame (▶) or the previous frame (◀) during close-up playback by pressing the INFO button. Index/calendar playback: Highlight image
Fn1	Displays a zoom frame. Use touch operations to set the position of the frame and press Fn1 to zoom in. To cancel, press Fn1 .
INFO	View image info
	Select picture (P. 34)
Fn2	Protect picture (P. 33)
	Delete picture (P. 34)
	View menus (in calendar playback, press this button to exit to single-frame playback)

Manipulating playback images

Press **OK** during playback to display a menu of simple options that can be used in playback mode.



	Still image frame	Movie frame
JPEG Edit, RAW Data Edit P. 85, 86	✓	—
Image Overlay P. 87	✓	—
Movie Play	—	✓
Share Order P. 108	✓	✓ *
(Protect)	✓	✓
(Audio recording)	✓	—
Rotate	✓	—
(Slideshow)	✓	✓
Erase	✓	✓

* Not available for or movies.

Performing operations on a movie frame (Movie Play)

OK	Pause or resume playback.	
	• You can perform the following operations while playback is paused.	
	or dial	Previous/Next Press and hold to continue the operation.
		Display the first frame.
		Display the last frame.
	Advance or rewind a movie.	
	Adjust volume.	

Cautions

- We recommend using the supplied PC software to play movies on a computer. Before launching the software for the first time, connect the camera to the computer.

Protecting images

Protect images from accidental deletion. Display an image you wish to protect and press **OK** to display the playback menu.

Select [**On**] and press **OK**, and then press **Δ** to protect the image. Protected images are shown by a **On** (protect) icon. Press **∇** to remove protection. Press **OK** to save settings and exit.

You can also protect multiple selected images. See “Selecting images” (P. 34)

On (protect) icon



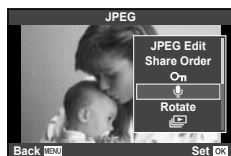
! Cautions

- Formatting the card erases all images even if they have been protected.

Audio recording

Add an audio recording (up to 30sec. long) to the current photograph.

- 1 Display the image to which you want to add an audio recording and press **OK**.
 - Audio recording is not available with protected images.
 - Audio recording is also available in the playback menu.
- 2 Select [**U**] and press **OK**.
 - To exit without adding a recording, select [No].
- 3 Select [**U** Start] and press **OK** to begin recording.
 - To stop recording part-way through, press **OK**.
- 4 Press **OK** to end recording.
 - Images with audio recordings are indicated by a **U** icon.
 - To delete a recording, select [Erase] in Step 2.



Rotate

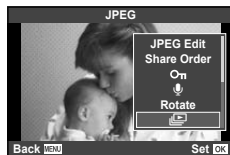
Choose whether to rotate photographs.

- 1 Play the photograph back and press **OK**.
- 2 Select [Rotate] and press **OK**.
- 3 Press **Δ** to rotate the image counterclockwise, **∇** to rotate it clockwise; the image rotates each time the button is pressed.
 - Press **OK** to save settings and exit.
 - The rotated image is saved in its current orientation.
 - Movies, 3D photos, and protected images cannot be rotated.

Slideshow

This function displays images stored on the card one after another.

- 1 Press **OK** during playback and select **[L]**.



- 2 Adjust settings.

Start	Start the slideshow. Images are displayed in order, starting with the current picture.
BGM	Set [Joy] or turn BGM [Off].
Slide	Set type of slideshow to execute.
Slide Interval	Choose the length of time each slide is displayed from 2 to 10 seconds.
Movie Interval	Select [Full] to include full-length movie clips in the slideshow, [Short] to include only the opening portion of each clip.

- 3 Select [Start] and press **OK**.
 - The slideshow will start.
 - Press **OK** to stop the slideshow.

Volume

Press **Δ**/**∇** during the slideshow to adjust the overall volume of the camera speaker. Press **◀**/**▶** while the volume adjustment indicator is displayed to adjust the balance between the sound recorded with the image or movie and background music.

Notes

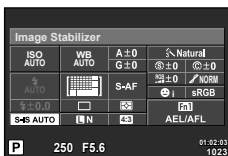
- You can change [Joy] to different BGM. Record the data downloaded from the Olympus website onto the card, select [Joy] from [BGM] in step 2, and press **▷**. Visit the following website for the download.
<http://support.olympus-imaging.com/bgmdownload/>

6 Using shooting options

Reducing camera shake (image stabilizer)

You can reduce the amount of camera shake that can occur when shooting in low light situations or shooting with high magnification. The image stabilizer starts when you press the shutter button halfway.

- 1 Press the **OK** button and select the image stabilizer.



When shooting using the viewfinder

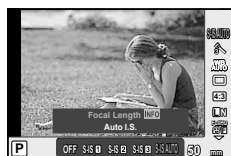


Image stabilizer

When shooting using live view

- 2 Select an item using the front dial and press the **OK** button.

Still picture	OFF	Still-I.S. Off	Image stabilizer is off.
	S-IS1	All Direction Shake I.S.	Image stabilizer is on.
	S-IS2	Vertical Shake I.S.	Image stabilization applies only to vertical (IA) camera shake.
	S-IS3	Horizontal Shake I.S.	Image stabilization applies only to horizontal (IA) camera shake. Use when panning the camera horizontally with the camera held in portrait orientation.
	S-IS AUTO	Auto I.S.	The camera detects the panning direction and applies the appropriate image stabilization.
Movie	OFF	Movie-I.S. Off	Image stabilizer is off.
	ON	Movie-I.S. On	In addition to applying image stabilization in all directions, the camera compensates for the camera shake that occurs when you walk.

Choosing a focal length (Micro Four Thirds/Four Thirds System lenses excluded)

Use focal length information to reduce camera shake when shooting with lenses that are not Micro Four Thirds or Four Thirds system lenses.

- Select [Image Stabilizer], press the **INFO** button, use **<|>** to select a focal length, and press **OK**.
- Choose a focal length between 8 mm and 1000 mm.
- Choose the value that most closely matches to the one that is printed on the lens.

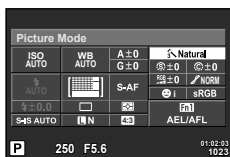
Cautions

- The image stabilizer cannot correct excessive camera shake or camera shake that occurs when the shutter speed is set to the slowest speed. In these cases, it is recommended that you use a tripod.
- When using a tripod, set [Image Stabilizer] to [OFF].
- When using a lens with an image stabilization function switch, priority is given to the lens side setting.
- When priority is being given to the lens side image stabilization and the camera side is set to [S-IS AUTO], [S-IS1] is used instead of [S-IS AUTO].
- You may notice an operating sound or vibration when the image stabilizer is activated.

Processing options (picture mode)

Select a picture mode and make individual adjustments to contrast, sharpness, and other parameters (P. 77). Changes to each picture mode are stored separately.

- 1 Press the **OK** button and select picture mode.



When shooting using the viewfinder



When shooting using live view

- 2 Select an item using the front dial and press the **OK** button.

	i-Enhance	Produces more impressive-looking results suited to the scene.
	Vivid	Produces vivid colors.
	Natural	Produces natural colors.
	Muted	Produces flat tones.
	Portrait	Produces beautiful skin tones.
	Monotone	Produces black and white tone.
	Custom	Select one picture mode, set the parameters, and register the setting.
	e-Portrait	Produces smooth skin textures. Cannot be used with bracket photography or when shooting movies.
	Color Creator	Produces colors set using color creator (P. 54).
	Pop Art	Choose an art filter and select the desired effect.
	Soft Focus	
	Pale&Light Color	
	Light Tone	
	Grainy Film	
	Pin Hole	
	Diorama	
	Cross Process	
	Gentle Sepia	
	Dramatic Tone	
	Key Line	
	Watercolor	

Adjusting color (white balance)

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

- 1 Press **OK** to select white balance.



When shooting using the viewfinder



When shooting using live view

- If you set the multi function button (P. 23) to **WB** (ISO sensitivity/White balance) in advance, you can press the **Fn2** button to display a menu.

- 2 Turn the rear dial to select items.

WB mode		Color temperature	Light conditions
Auto white balance	AUTO	—	Used for most light conditions (when there is a white portion framed on the monitor). Use this mode for general use.
Preset white balance		5300K	For shooting outdoors on a clear day, or to capture the reds in a sunset or the colors in a fireworks display
		7500K	For shooting outdoors in the shadows on a clear day
		6000K	For shooting outdoors on a cloudy day
		3000K	For shooting under a tungsten light
		4000K	For subjects lit by fluorescent lights
		—	For underwater photography
One-touch white balance (P. 64)		—	For underwater photography
		5500K	For flash shooting
One-touch white balance (P. 64)		Color temperature set by one-touch WB.	Choose when a white or gray subject can be used to measure white balance and the subject is under mixed lighting or lit by an unknown type of flash or other light source.
Custom white balance	CWB	2000K–14000K	After pressing the INFO button, use < > buttons to select a color temperature and then press OK .

One-touch white balance

Measure white balance by framing a piece of paper or other white object under the lighting that will be used in the final photograph. This is useful when shooting a subject under natural light, as well as under various light sources with different color temperatures.

- 1 Select [], [], [] or [] (one-touch white balance 1, 2, 3 or 4) and press the **INFO** button.
- 2 Photograph a piece of colorless (white or gray) paper.
 - Frame the object so that it fills the display and no shadows fall it.
 - The one-touch white balance screen appears.
- 3 Select [Yes] and press .
 - 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.



Tips

- If the subject is too bright or too dark or visibly tinted, the message [WB NG Retry] will be displayed and no value will be recorded. Correct the problem and repeat the process from Step 1.

Sequential shooting/using the self timer

Keep the shutter button pressed all the way down to take a series of photos. Alternatively, you can take pictures using the self timer.

- 1 Press the **OK** button to select sequential shooting/self timer.



When shooting using the viewfinder



When shooting using live view

Sequential shooting/self timer

- If you assign [Direct Function] to the arrow pad, you can press **▽** to display the options.
INFO [Button Function] (P. 99)

- 2 Select the shooting mode using the front dial and press the **OK** button.

	Single-frame shooting	Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode, single-frame shooting).
	Sequential H	Photographs are taken at about 8 frames per second (fps) while the shutter button is pressed all the way down. Focus, exposure, and white balance are fixed at the values for the first shot in each series.
	Sequential L	Photographs are taken at about 3.5 frames per second (fps) while the shutter button is pressed all the way down. Focus and exposure are fixed according to the options selected for [AF Mode] (P. 72) and [AEL/AFL] (P. 97).
	Self-timer 12 SEC	Press the shutter button halfway to focus, the rest of the way down to start the timer. First, the self-timer lamp lights up for approximately 10 seconds, then it blinks for approximately 2 seconds and the picture is taken.
	Self-timer 2 SEC	Press the shutter button halfway to focus, the rest of the way down to start the timer. The self-timer lamp blinks for approximately 2 seconds, and then the picture is taken.
	Custom Self-timer	You can set the self-timer time, number of photographs, and interval between photographs. Select ⊗ , press the INFO button, and rotate the rear dial. Use the front dial to select an option.

Notes


- To cancel the activated self-timer, press **▽**.



Cautions

- When you are using , no confirmation image is displayed during shooting. The image is displayed again after shooting ends. When you are using , the image shot immediately before is displayed.
- The speed of sequential shooting varies depending on the lens you are using and the focus of the zoom lens.

- During sequential shooting, if the battery check blinks due to low battery, the camera stops shooting and starts saving the pictures you have taken on the card. The camera may not save all of the pictures depending on how much battery power remains.
- Fix the camera securely on a tripod for self-timer shooting.
- If you stand in front of the camera to press the shutter button halfway when using the self-timer, the photograph may be out of focus.


Adding effects to a movie

You can create movies that take advantage of the effects available in still photography mode. Set the dial to  to enable the settings.

- 1 Rotate the mode dial to , press the  button, and use the rear dial to select a shooting mode item.



Shooting mode

- 2 Switch the shooting mode using the front dial and press the  button.

P	Optimal aperture is set automatically according to the brightness of the subject.
A	Depiction of background is changed by setting the aperture. Use the rear dial to adjust the aperture.
S	Shutter speed affects how the subject appears. Use the rear dial to adjust the shutter speed. Shutter speed can be set to values between 1/30 s and 1/4000 s.
M	You control both aperture and shutter speed. Use the front dial to choose the aperture, the rear dial to select the shutter speed from values between 1/30 s and 1/4000 s. Sensitivity can be set manually to values between ISO 200 and 3200; auto ISO sensitivity control is not available.

Cautions

- When recording a movie, you cannot change the settings for exposure compensation, aperture value, and shutter speed.
- If [Image Stabilizer] is activated while recording a movie, the recorded image is enlarged slightly.
- Stabilization is not possible when the camera shake is excessive.
- When the inside of the camera becomes hot, shooting is automatically stopped to protect the camera.
- With some art filters, [C-AF] operation is limited.
- Cards with an SD speed class of 6 or above are recommended for movie recording.

Image quality (record mode)

Select an image quality for photographs and movies according their intended use, for example retouching on a computer or display on the web.

- Press the **OK** button and select an image quality for photographs or movies.



When shooting using the viewfinder



Record mode

When shooting using live view

- Select an item using the front dial and press the **OK** button.

Record modes (still images)

Choose from RAW and JPEG (**L**, **N**, **M**, and **S**) modes. Choose a RAW+JPEG option to record both a RAW and a JPEG image with each shot. JPEG modes combine image size (**L**, **M**, and **S**) and compression ratio (SF, F, N, and B).

Image size		Compression rate				Application
Name	Pixel count	SF (Super Fine)	F (Fine)	N (Normal)	B (Basic)	
L (Large)	4608×3456*	L SF	L F*	L N*	L B	Select for the print size
M (Middle)	3200×2400*	M SF	M F	M N*	M B	
	2560×1920					
	1920×1440					
S (Small)	1600×1200	S SF	S F	S N*	S B	For small prints and use on a website
	1280×960*					
	1024×768					
	640×480					



* Default

RAW image data

This format (extension “.ORF”) stores unprocessed image data for later processing. RAW image data cannot be viewed using other cameras or software, and RAW images cannot be selected for printing. JPEG copies of RAW images can be created using this camera.

Editing still images (P. 85)

Record modes (movies)

Record mode	Pixel count	File format	Application
Full HD Fine	1920×1080	MPEG-4 AVC/ H.264*1	Display on TVs and other devices
Full HD Normal	1920×1080		
HD Fine	1280×720		
HD Normal	1280×720		
	1280×720	Motion JPEG*2	For computer playback or editing
	640×480		

- Depending on the type of card used, recording may end before the maximum length is reached.

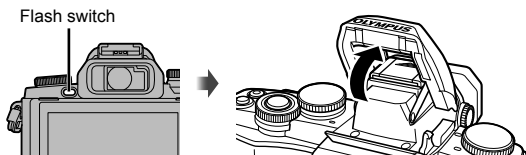
*1 Individual movies can be up to 29 minutes long.


*2 Files may be up to 2GB in size.

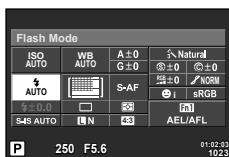
Using a flash (flash photography)

The flash can be set manually as required. The flash can be used for flash photography in a variety of shooting conditions.

- 1 Press the flash switch to pop up the flash unit.



- 2 Press the  button and select flash mode.




When shooting using the viewfinder




When shooting using live view







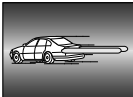

Flash mode

- If you assign [Direct Function] to the arrow pad, you can press  to display the options.



 [Button Function] (P. 99)

- 3 Select a setting using the front dial and press the  button.








- The options available and the order in which they are displayed vary depending on the shooting mode.  "Flash modes that can be set by shooting mode" (P. 69)

AUTO	Auto flash	The flash fires automatically in low light or backlight conditions.
	Fill-in flash	The flash fires regardless of the light conditions.
	Flash off	The flash does not fire.
	Red-eye reduction flash	This function allows you to reduce the red-eye phenomenon. In S and M modes, the flash always fires.
	Slow synchronization (1st curtain)	Slow shutter speeds are used to brighten dimly-lit backgrounds.
	Slow synchronization (1st curtain)/Red-eye reduction flash	Combines slow synchronization with red-eye reduction.
	Slow synchronization (2nd curtain)	The flash fires just before the shutter closes to create trails of light behind moving light sources.
		
	Manual	For users who prefer manual operation. If you press the INFO button, you can use the dial to adjust the flash level.

! Cautions

- In [] (Red-eye reduction flash), after the pre-flashes, it takes about 1 second before the shutter is released. Do not move the camera until shooting is complete.
- [] (Red-eye reduction flash) may not work effectively under some shooting conditions.
- When the flash fires, the shutter speed is set to 1/250 sec. or slower. When shooting a subject against a bright background with the fill-in flash, the background may be overexposed.

Flash modes that can be set by shooting mode

Shooting mode	LV super control panel	Flash mode	Flash timing	Conditions for firing the flash	Shutter speed limit
P/A		Auto flash	1st curtain	Fires automatically in dark/backlit conditions	1/30 sec. – 1/250 sec.*
		Auto flash (red-eye reduction)			
		Fill-in flash			
		Flash off	—	—	—
		Slow synchronization (red-eye reduction)	1st curtain	Fires automatically in dark/backlit conditions	60 sec. – 1/250 sec.*
		Slow synchronization (1st curtain)			
		Slow synchronization (2nd curtain)	2nd curtain		

Shooting mode	LV super control panel	Flash mode	Flash timing	Conditions for firing the flash	Shutter speed limit
S/M		Fill-in flash	1st curtain	Always fires	60 sec. – 1/250 sec.*
		Fill-in flash (red-eye reduction)			
		Flash off	—	—	—
		Fill-in flash/Slow synchronization (2nd curtain)	2nd curtain	Always fires	60 sec. – 1/250 sec.*

• **AUTO**, can be set in **AUTO** mode.

* 1/200 sec. or 1/180 sec. (FL-50R only) when using a separately sold external flash unit

Minimum range

The lens may cast shadows over objects close to the camera, causing vignetting, or be too bright even at minimum output.

Lens	Approximate distance at which vignetting occurs
17mm f1.8	0.25m
25mm f1.8	0.5m
45mm f1.8	0.5m
14–42mm IIR	0.8m
14–42mm EZ	0.25m
40–150mm	0.9m

- External flash units can be used to prevent vignetting. To prevent photographs from being overexposed, select mode **A** or **M** and choose a high f-number, or reduce ISO sensitivity.

Adjusting flash output (flash intensity control)

Flash output can be adjusted if you find that your subject appears overexposed, or is underexposed even though the exposure in the rest of the frame is just right.

- 1 Press the button and select a flash intensity control item.



When shooting using the viewfinder



When shooting using live view

- 2 Select a flash compensation value using the front dial and press the button.

! Cautions

- This setting has no effect when the flash control mode for the external flash unit is set to MANUAL.
- Changes to flash intensity made with the external flash unit are added to those made with the camera.

Choosing how the camera measures brightness (metering)

Choose how the camera meters subject brightness.

- 1 Press the **OK** button and select metering.





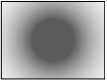

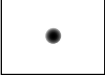


When shooting using the viewfinder



When shooting using live view

Metering

- 2 Select an option using the front dial and press the **OK** button.

 Digital ESP metering	The camera meters exposure in 324 areas of the frame and optimizes exposure for the current scene or (if an option other than [OFF] is selected for [●] Face Priority)) portrait subject. This mode is recommended for general use.	
 Center weighted averaging metering	This metering mode provides the average metering between the subject and the background lighting, placing more weight on the subject at the center.	
 Spot metering	Choose this option to meter a small area (about 2% of the frame) with the camera pointed at the object you wish to meter. Exposure will be adjusted according to the brightness at the metered point.	
 Spot metering - highlight	Increases spot metering exposure. Ensures bright subjects appear bright.	
 Spot metering - shadow	Lowers spot metering exposure. Ensures dark subjects appear dark.	

- 3 Press the shutter button halfway.

- Normally, the camera will start metering when the shutter button is pressed halfway and lock exposure while the shutter button is held in this position.

ISO sensitivity

Increasing ISO sensitivity increases noise (graininess) but allows photographs to be taken when lighting is poor. The setting recommended in most situations is [AUTO], which starts at ISO 200 — a value that balances noise and dynamic range — and then adjusts ISO sensitivity according to shooting conditions.

- 1 Press \odot to select ISO sensitivity.



When shooting using the viewfinder



When shooting using live view

- If you set the multi function button (P. 23) to ISO (ISO sensitivity/White balance) in advance, you can press the **Fn2** button to display a menu.

- 2 Turn the front dial to select items.

AUTO	The sensitivity is set automatically according to the shooting conditions.
LOW, 200–25600	Sensitivity is set to the selected value.

Movie sound options (recording sound with movies)

- 1 Press the \odot button when shooting with live view and select a movie sound.



When shooting using live view

- 2 Switch ON/OFF using the front dial and press the \odot button.

! Cautions

- When recording sound in a movie, the sound made by the lens and camera operating may be recorded. If desired, you can reduce these sounds by shooting with [AF Mode] set to [S-AF], or by limiting the amount of times you press the buttons.
- No sound is recorded in AF-L (Diorama) mode.

Basic menu operations

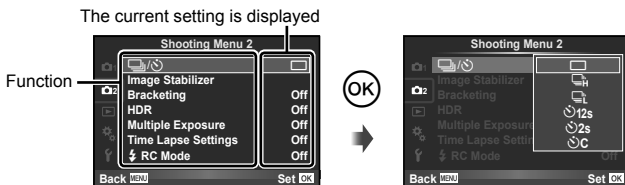
The menus contain shooting and playback options that are not displayed by the live control, and let you customize the camera settings for easier use.

	Preliminary and basic shooting options
	Advanced shooting options
	Playback and retouch options
	Customizing camera settings (P. 89)
	Camera setup (e.g., date and language)

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



- 2 Use Δ ∇ to select a tab and press \odot .
- 3 Select an item using Δ ∇ and press \odot to display options for the selected item.



- 4 Use Δ ∇ to highlight an option and press \odot to select.
 - Press the **MENU** button repeatedly to exit the menu.

Notes

- For the default settings of each option, refer to “Menu directory” (P. 138).
- A guide is displayed for about 2 seconds after you select an option. Press the **INFO** button to view or hide guides.

Using Shooting Menu 1/Shooting Menu 2



- 1 Card Setup (P. 75)
- Reset/Myset (P. 76)
- Picture Mode (P. 77)
- ◀ (P. 78)
- Image Aspect (P. 54)
- Digital Tele-converter (P. 84)
- 2 [Sequential shooting/Self-timer] (P. 65, 78)
- Image Stabilizer (P. 60)
- Bracketing (P. 79)
- HDR (P. 81)
- Multiple Exposure (P. 82)
- Time Lapse Settings (P. 83)
- ⚡ RC Mode (P. 84)

Formatting the card (Card Setup)

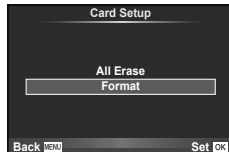
Cards must be formatted with this camera before first use or after being used with other cameras or computers.

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. [Hand icon] “Usable cards” (P. 119)

1 Select [Card Setup] in [Shooting Menu 1].

2 Select [Format].



3 Select [Yes] and press [OK].

- Formatting is performed.

Restoring default settings (Reset/Myset)

Camera settings can be easily restored to registered settings.

Using reset settings

Restore default settings.

- 1 Select [Reset/Myset] in Shooting Menu 1.
- 2 Select [Reset] and press .
 - Highlight [Reset] and press to choose the reset type.
To reset all settings except the time, date, and a few others, highlight [Full] and press .



- 3 Select [Yes] and press .

Saving Myset

You can save the current camera settings for modes other than shooting mode. Saved settings can be called up in **P**, **A**, **S**, and **M** modes.

- 1 Adjust settings in order to save.
- 2 Select [Reset/Myset] in Shooting Menu 1.
- 3 Select the desired destination ([Myset1]–[Myset4]) and press .
 - [Set] appears next to destinations ([Myset1]–[Myset4]) to which settings have already been saved. Selecting [Set] again overwrites the registered setting.
 - To cancel the registration, select [Reset].
- 4 Select [Set] and press .
 - Settings that can be saved to Myset "Menu directory" (P. 138)

Using Myset


Sets the camera to the settings selected for Myset.

- 1 Select [Reset/Myset] in Shooting Menu 1.
- 2 Select the desired settings ([Myset1]–[Myset4]) and press .
- 3 Select [Yes] and press .







Processing options (Picture Mode)

You can make individual adjustments to contrast, sharpness and other parameters in [Picture Mode] (P. 62) settings. Changes to each picture mode are stored separately.

- 1 Select [Picture Mode] in  Shooting Menu 1.



- 2 Select an option with Δ ∇ and press \odot .
- 3 Press \triangleright to display settings for the selected option.

					
Contrast	Distinction between light and dark	✓	✓	✓	✓
Sharpness	Sharpness of the image	✓	✓	✓	✓
Saturation	Vividness of the color	✓	✓	—	✓
Gradation	Adjust tone (gradation).				
Auto	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.	✓	✓	✓	✓
Normal	Use [Normal] mode for general uses.				
High Key	Gradation for a bright subject.				
Low Key	Gradation for a dark subject.				
Effect (i-Enhance)	Sets the extent that the effect will be applied.	✓	—	—	✓
B&W Filter (Monotone)	Creates a black and white image. The filter color is brightened and the complementary color is darkened.				
N:Neutral	Creates a normal black and white image.				
Ye:Yellow	Reproduces clearly defined white cloud with natural blue sky.				
Or:Orange	Slightly emphasizes colors in blue skies and sunsets.	—	—	✓	✓
R:Red	Strongly emphasizes colors in blue skies and brightness of crimson foliage.				
G:Green	Strongly emphasizes colors in red lips and green leaves.				

Pict. Tone (Monotone)	Colors the black and white image.				
N:Neutral	Creates a normal black and white image.				
S:Sepia	Sepia	—	—	✓	✓
B:Blue	Bluish				
P:Purple	Purplish				
G:Green	Greenish				

Cautions

- Changes to contrast have no effect at settings other than [Normal].

Image quality ()

Select an image quality. You can select a separate image quality for photographs and movies. This is the same as the [] item in live control.

- You can change the JPEG image size and compression ratio combination, and [] and [] pixel counts. [Set], [Pixel Count] "Using the custom menus" (P. 89)

Setting the self timer ()

You can customize the self timer operation.

- 1 Select [] in Shooting Menu 2.





- 2 Select [] (custom) and press .
- 3 Use to select the item and press .
 - Use to select the setting and press .



Frame	Sets the number of frames to be shot.
Timer	Sets the time after the shutter button is pressed until the picture is taken.
Interval Time	Sets the shooting interval for the second and subsequent frames.

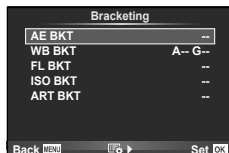
Varying settings over a series of photographs (bracketing)




“Bracketing” refers to the act of varying settings automatically over a series of shots or a series of images to “bracket” the current value. You can store bracket shooting settings and turn bracket shooting off.

- 1 Select [Bracketing] in  Shooting Menu 2 and press .



- 2 After selecting [On], press  and select a bracket shooting type.
 - When you select bracket shooting,  appears on the screen.





- 3 Press , select settings for parameters such as the number of shots, and then press the  button.
 - Continue to press the  button until you return to the screen in step 1.
 - If you select [Off] in step 2, bracket shooting settings will be saved and you can shoot normally.

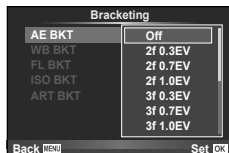
Cautions

- Cannot be used during HDR photography.
- Cannot be used at the same time as multiple exposure and time lapse shooting.

AE BKT (AE bracketing)

The camera varies the exposure of each shot. The modification amount can be selected from 0.3 EV, 0.7 EV, or 1.0 EV. In single-frame shooting mode, one photograph is taken each time the shutter button is pressed all the way down, while in sequential shooting mode the camera continues to take shots in the following order while the shutter button is pressed all the way down: no modification, negative, positive. Number of shots: 2, 3, 5, or 7

- The  indicator turns green during bracketing.
- The camera modifies exposure by varying aperture and shutter speed (mode **P**), shutter speed (modes **A** and **M**), or aperture (mode **S**).
- The camera brackets the value currently selected for exposure compensation.
- The size of the bracketing increment changes with the value selected for [EV Step].  “Using the custom menus” (P. 89)



WB BKT (WB bracketing)

Three images with different white balances (adjusted in specified color directions) are automatically created from one shot, starting with the value currently selected for white balance. WB bracketing is available in **P**, **A**, **S** and **M** modes.

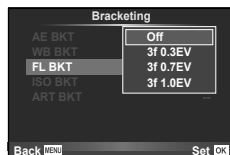
- White balance can be varied by 2, 4, or 6 steps on each of the A–B (Amber–Blue) and G–M (Green–Magenta) axes.
- The camera brackets the value currently selected for white balance compensation.
- No pictures will be taken during WB bracketing if there is not enough memory on the card for the selected number of frames.



FL BKT (FL bracketing)

The camera varies flash level over three shots (no modification on the first shot, negative on the second, and positive on the third). In single-frame shooting, one shot is taken each time the shutter button is pressed; in sequential shooting, all shots are taken while the shutter button is pressed.

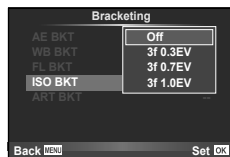
- The **[BKT]** indicator turns green during bracketing.
- The size of the bracketing increment changes with the value selected for [EV Step]. "Using the custom menus" (P. 89)



ISO BKT (ISO bracketing)

The camera varies the sensitivity over three shots while keeping the shutter speed and aperture fixed. The modification amount can be selected from 0.3 EV, 0.7 EV, or 1.0 EV. Each time the shutter button is pressed, the camera shoots three frames with the set sensitivity (or if auto sensitivity is selected, the optimal sensitivity setting) on the first shot, negative modification on the second shot, and positive modification on the third shot.

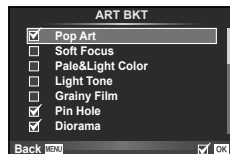
- The size of the bracketing increment does not change with the value selected for [ISO Step]. "Using the custom menus" (P. 89)
- Bracketing is performed regardless of the upper limit set with [ISO-Auto Set]. "Using the custom menus" (P. 89)



ART BKT (ART bracketing)

Each time the shutter is released, the camera records multiple images, each with a different art filter setting. You can turn art filter bracketing on or off separately for each picture mode.

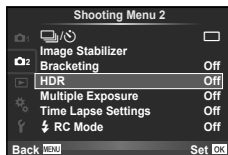
- Recording may take some time.
- ART BKT cannot be combined with WB BKT or ISO BKT.



HDR photography

The camera shoots several images and automatically combines them into an HDR image. You can also shoot several images and perform HDR imaging on a computer (HDR bracketing photography).

- 1 Select [HDR] in Shooting Menu 2 and press .



- 2 Select a type of HDR photography and press the button.

HDR1	Four shots are taken, each with a different exposure, and the shots are combined into one HDR image inside the camera. HDR2 provides a more impressive image than HDR1. ISO sensitivity is fixed to 200. Also, the slowest available shutter speed is 1 second and the longest available exposure is 4 seconds.
HDR2	
3F 2.0EV	HDR bracketing is performed. Select the number of images and the exposure difference. HDR imaging processing is not performed.
5F 2.0EV	
7F 2.0EV	
3F 3.0EV	
5F 3.0EV	

- 3 Shoot.


- When you press the shutter button, the camera automatically shoots the set number of images.
- If you assign HDR to a button using the [Button Function] (P. 99), you can press the button to call up the HDR shooting screen.

Cautions

- In the case of HDR1 and HDR2, exposure compensation is not available.
- If you shoot with a slower shutter speed, there may be more noticeable noise.
- Attach the camera to a tripod or other stabilizing item and then shoot.
- The image displayed on the monitor or in the viewfinder while shooting will differ from the HDR-processed image.
- In the case of HDR1 and HDR2, the HDR-processed image will be saved as a JPEG file. When the image quality mode is set to [RAW], the image is recorded in RAW+JPEG. The only image recorded in RAW is the image with suitable exposure.
- If set to HDR1/HDR2, the picture mode is fixed to [Natural] and the color setting is fixed to [sRGB]. [Full-time AF] does not operate.
- Flash photography, bracketing, multiple exposure and time lapse shooting cannot be used at the same time as HDR photography.


Recording multiple exposures in a single image (multiple exposure)

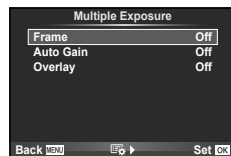
Record multiple exposures in a single image, using the option currently selected for image quality.

1 Select [Multiple Exposure] in  Shooting Menu 2.



2 Adjust settings.

Frame	Select [2f].
Auto Gain	When set to [On], the brightness of each frame is set to 1/2 and the images are overlaid. When set to [Off], the images are overlaid with the original brightness of each frame.
Overlay	When set to [On], a RAW image recorded on a card can be overlaid with multiple exposures and stored as a separate image. The number of pictures taken is one.



-  is displayed in the monitor while multiple exposure is in effect.




3 Shoot.

-  is displayed in green when shooting starts.
- Press  to delete the last shot.
- The previous shot is superimposed on the view through the lens as a guide to framing the next shot.

Tips

- To overlay 3 or more frames: Select RAW for [] and use the [Overlay] option to make repeated multiple exposures.
- For more information on overlaying RAW images:  [Edit] (P. 85)

Cautions

- The camera will not go to sleep while multiple exposure is in effect.
- Photographs taken with other cameras cannot be included in a multiple exposure.
- When [Overlay] is set to [On], the images displayed when a RAW image is selected are developed with the settings at the time of shooting.
- To set the shooting functions, cancel multiple exposure shooting first. Some functions cannot be set.
- Multiple exposure is cancelled automatically from the first picture in the following situations.
 - The camera is turned off/The  button is pressed/The **MENU** button is pressed/The shooting mode is set to a mode other than **P**, **A**, **S**, **M**/The battery power runs out/Any cable is connected to the camera
- When a RAW image is selected using [Overlay], the JPEG image for the image recorded in RAW+JPEG is displayed.
- When shooting multiple exposures using bracketing, priority is given to multiple exposure shooting. While the overlay image is being saved, bracketing is reset to the factory default setting.

Shooting automatically with a fixed interval (time lapse shooting)

You can set the camera to shoot automatically with a set time lapse. The shot frames can also be recorded as into a single movie. This setting is only available in **P/A/S/M** modes.

- 1 Perform the following settings under [Time Lapse Settings] in Shooting Menu 2.

Frame	Sets the number of frames to be shot.
Start Waiting Time	Sets waiting time before starting to shoot.
Interval Time	Sets interval between shots after shooting starts.
Time Lapse Movie	Sets recording format of frame sequence. [Off]: Records each frame as a still picture. [On]: Records each frame as a still picture and generates and records a single movie from the frame sequence.

- The image quality of the movie is [M-JPEG HD] and the frame rate 10fps.


2 Shoot.

- Frames are shot even if the image is not in focus after AF. If you wish to fix the focus position, shoot in MF.
- [Rec View] operates for 0.5 seconds.
- If either of the time before shooting, or shooting interval is set to 1 minute 31 seconds or longer, the monitor and camera power will turn off after 1 minute. 10 seconds before shooting, the power will automatically turn on again. When the monitor is off, press the shutter button to turn it on again.

Cautions


- If the AF mode is set to [C-AF] or [C-AF+TR], it is automatically changed to [S-AF].
- Touch operations are disabled during time lapse shooting.
- Cannot be used with HDR photography.
- It is not possible to combine time lapse shooting with bracketing, multiple exposure, and bulb, time or composite photography.
- The flash will not work if the flash charging time is longer than the interval between shots.
- If the camera automatically turns off in interval between shots, it will turn on in time for the next shot.
- If the any of the still pictures are not recorded correctly, the time lapse movie will not be generated.
- If there is insufficient space on the card, the time lapse movie will not be recorded.
- Time lapse shooting will cancelled if any of the following is operated: Mode dial, **MENU** button, button, lens release button, or connecting the USB cable.
- If you turn off the camera, time lapse shooting will be cancelled.
- If there is not enough charge left on the battery, the shooting may end partway through. Make sure the battery is suitably charged before starting.

Wireless remote control flash photography








You can take wireless flash photographs using the built-in flash and a special flash with a remote control function.  “Wireless remote control flash photography” (P. 125)

Digital Zoom (Digital Tele-converter)

Digital Tele-converter is used to zoom in beyond the current zoom ratio. The camera saves the center crop. Zoom is increased by about 2×.

- 1 Select [On] for [Digital Tele-converter] in  Shooting Menu 1.
- 2 The view in the monitor will be enlarged by a factor of two.
 - The subject will be recorded as it appears in the monitor.

Cautions

- Digital zoom is not available with multiple exposures, in  mode, or when , , , , or  is selected in **SCN** mode.
- This function is not available when [Movie Effect] is [On] in  mode.
- When a RAW image is displayed, the area visible in the monitor is indicated by a frame.
- AF target drops.

Using the playback menu



 (P. 59)
 (P. 85)
Edit (P. 85)










Print Order (P. 116)
Reset Protect (P. 87)
Connection to Smartphone (P. 107)

Displaying images rotated ()




When set to [On], photographs taken with the camera rotated in portrait orientation are automatically rotated and displayed in portrait orientation.

Editing still images

Recorded images can be edited and saved as new images.

- 1 Select [Edit] in the  Playback Menu and press .
- 2 Use   to select [Sel. Image] and press .
- 3 Use   to select the image to be edited and press .
 - [RAW Data Edit] is displayed if the picture is a RAW image, [JPEG Edit] if it is a JPEG image. If the image was recorded in RAW+JPEG format, both [RAW Data Edit] and [JPEG Edit] will be displayed. Select the menu for the image to be edited.
- 4 Select [RAW Data Edit] or [JPEG Edit] and press .

RAW Data Edit	Create a JPEG copy of a RAW image edited according to the settings.	
	[Current]	The JPEG copy is processed using the current camera settings. Adjust the camera settings before choosing this option.
	[Custom1]	Editing can be performed while changing the settings on the monitor. You can save the settings used.
	[Custom2]	
	ART BKT	The image is edited using settings for the selected art filter.

JPEG Edit	<p>Choose from the following options:</p> <p>[Shadow Adj]: Brightens a dark backlit subject.</p> <p>[Redeye Fix]: Reduces the red-eye phenomenon during flash shooting.</p> <p>[]: Use the dial to choose the size of the crop and $\Delta \nabla \triangleleft \triangleright$ to position the crop.</p>  <p>[Aspect]: Changes the aspect ratio of images from 4:3 (standard) to [3:2], [16:9], [1:1], or [3:4]. After changing the aspect ratio, use $\Delta \nabla \triangleleft \triangleright$ to specify the trimming position.</p> <p>[Black & White]: Creates black and white images.</p> <p>[Sepia]: Creates sepia-toned images.</p> <p>[Saturation]: Sets the color depth. Adjust the color saturation checking the picture on the screen.</p> <p>[]: Converts the image file size to 1280 × 960, 640 × 480, or 320 × 240. Images with an aspect ratio other than 4:3 (standard) are converted to the closest image file size.</p> <p>[e-Portrait]: Makes skin look smooth and translucent. You may not be able to compensate depending on the image if face detection fails.</p>
------------------	--

5 When the settings are complete, press \odot .

- The settings will be applied to the image.

6 Select [Yes] and press \odot .

- The edited image is stored in the card.

! **Cautions**







- Movies and 3D photos cannot be edited.
- Red-eye correction may not work depending on the image.
- Editing of a JPEG image is not possible in the following cases:
 - When an image is processed on a PC, when there is not enough space in the card memory, when an image is recorded on another camera
- When resizing () an image, you cannot select a larger number of pixels than was originally recorded.
- [] and [Aspect] can only be used to edit images with an aspect ratio of 4:3 (standard).
- When [Picture Mode] is set to [ART], [Color Space] is locked to [sRGB].

Image overlay

Up to 3 frames of RAW images taken with the camera can be overlaid and saved as a separate image.



The image is saved with the record mode set at the time the image is saved. (If [RAW] is selected, the copy will be saved in [L+N+RAW] format.)

- 1 Select [Edit] in the  Playback Menu and press .
- 2 Use $\Delta \nabla$ to select [Image Overlay] and press .
- 3 Select the number of images in the overlay and press .
- 4 Use $\Delta \nabla \langle \rangle$ to select the RAW images that will be used in the overlay.
 - When you have selected the number of images specified in Step 3, the overlay will be displayed.



- 5 Adjust gain.
 - Use $\langle \rangle$ to select an image and use $\Delta \nabla$ to adjust gain.
 - Gain can be adjusted in the range 0.1–2.0. Check the results in the monitor.




- 6 Press . A confirmation dialog will be displayed; select [Yes] and press .

Tips

- To overlay 4 or more frames, save the overlay image as a RAW file and use [Image Overlay] repeatedly.



Audio recording

Add an audio recording (up to 30sec. long) to the current photograph.

This is the same function as  during playback. (P. 58)

Canceling all protections

This function lets you cancel the protection of several images at one time.

- 1 Select [Reset Protect] in the  Playback Menu.
- 2 Select [Yes] and press .

Using the setup menu

Use the **Y** Setup Menu to set the basic camera functions.




















Option	Description	
(Date/time setting)	Set the camera clock.	16
(Changing the display language)	You can change the language used for the on-screen display and error messages from English to another language.	—
(Monitor brightness adjustment)	You can adjust the brightness and color temperature of the monitor. Color temperature adjustment will affect only the monitor display during playback. Use < > to highlight (color temperature) or (brightness) and Δ / ∇ to adjust the value. Press the INFO button to switch between [Natural] and [Vivid] monitor color display.	—
Rec View	Choose whether pictures are displayed immediately after shooting and for how long. This is useful for making a brief check of the picture you have just taken. Pressing the shutter button halfway while checking the picture lets you resume shooting immediately. [0.3sec]–[20sec]: Selects the number of seconds to display each picture. [Off]: The picture being recorded to the card is not displayed. [Auto▶]: Displays the image being recorded, and then switches to playback mode. This is useful for erasing a picture after checking it.	—
Wi-Fi Settings	Set up the camera to connect to a smartphone with wireless LAN connectivity using the wireless function on the camera.	107
Menu Display	Choose whether to display the custom menu.	—
Firmware	Your product's firmware version will be displayed. When you make inquiries about your camera or accessories or when you want to download software, you will need to state which version of each of the products you are using.	—

Using the custom menus

Camera settings can be customized using the  Custom Menu.





Custom Menu

-  AF/MF (P. 89)
-  Button/Dial (P. 90)
-  Release/ (P. 90)
-  Disp//PC (P. 91)
-  Exp//ISO (P. 92)
-   Custom (P. 93)
-  -/Color/WB (P. 94)
-  Record/Erase (P. 95)
-  Movie (P. 96)
-  Built-In EVF (P. 96)
-   Utility (P. 97)



AF/MF

MENU →  → 

Option	Description	
AF Mode	Choose the AF mode. This is the same as the live control setting. You can set separate focusing methods for still photography mode and  mode.	72
Full-time AF	If [On] is selected, the camera will continue to focus even when the shutter button is not pressed halfway. Cannot be used when using a Four Thirds system lens.	—
AEL/AFL	Customize AF and AE lock.	97
Reset Lens	When set to [On], this resets the focus of the lens (infinity) each time the power is turned off. The focus of power zoom lenses is also reset.	—
BULB/TIME Focusing	Normally focus locks during the exposure when manual focus (MF) is selected. Select [On] to allow focusing using the focus ring.	—
Focus Ring	You can customize how the lens adjusts to the focal point by selecting the rotational direction of the focus ring.	—
MF Assist	When set to [On], you can automatically switch to zoom or peaking in manual focus mode by rotating the focus ring.	98
[] Set Home	Choose the AF target position that will be saved as the home position.  appears in the AF target selection display while you choose a home position.	—

AF/MF

MENU → →

Option	Description	
AF Illuminat.	Select [Off] to disable the AF illuminator.	—
Face Priority	Select the face priority AF mode. This is the same as the live control setting.	52
AF Area Pointer	If you select [Off], the AF target frame will not be displayed during confirmation.	—

Button/Dial

MENU → →

Option	Description	
Button Function	Choose the function assigned to the selected button. [Fn]Function, [Fn2]Function, [Fn3]Function, [Fn4]Function, [Fn5]Function, [Fn6]Function, [Fn7]Function, [Fn8]Function, [Fn9]Function, [Fn10]Function, [Fn11]Function, [Fn12]Function, [Fn13]Function, [Fn14]Function, [Fn15]Function, [Fn16]Function, [Fn17]Function, [Fn18]Function, [Fn19]Function, [Fn20]Function, [Fn21]Function, [Fn22]Function, [Fn23]Function, [Fn24]Function, [Fn25]Function, [Fn26]Function, [Fn27]Function, [Fn28]Function, [Fn29]Function, [Fn30]Function, [Fn31]Function, [Fn32]Function, [Fn33]Function, [Fn34]Function, [Fn35]Function, [Fn36]Function, [Fn37]Function, [Fn38]Function, [Fn39]Function, [Fn40]Function, [Fn41]Function, [Fn42]Function, [Fn43]Function, [Fn44]Function, [Fn45]Function, [Fn46]Function, [Fn47]Function, [Fn48]Function, [Fn49]Function, [Fn50]Function, [Fn51]Function, [Fn52]Function, [Fn53]Function, [Fn54]Function, [Fn55]Function, [Fn56]Function, [Fn57]Function, [Fn58]Function, [Fn59]Function, [Fn60]Function, [Fn61]Function, [Fn62]Function, [Fn63]Function, [Fn64]Function, [Fn65]Function, [Fn66]Function, [Fn67]Function, [Fn68]Function, [Fn69]Function, [Fn70]Function, [Fn71]Function, [Fn72]Function, [Fn73]Function, [Fn74]Function, [Fn75]Function, [Fn76]Function, [Fn77]Function, [Fn78]Function, [Fn79]Function, [Fn80]Function, [Fn81]Function, [Fn82]Function, [Fn83]Function, [Fn84]Function, [Fn85]Function, [Fn86]Function, [Fn87]Function, [Fn88]Function, [Fn89]Function, [Fn90]Function, [Fn91]Function, [Fn92]Function, [Fn93]Function, [Fn94]Function, [Fn95]Function, [Fn96]Function, [Fn97]Function, [Fn98]Function, [Fn99]Function, [Fn100]Function	99
Dial Function	You can change the functions assigned to the rear dial and front dial.	—
Dial Direction	Choose the direction in which the dial is rotated to adjust shutter speed or aperture. Change the program shift direction.	—
Mode Dial Function	Customize the shooting mode set by the mode dial. You can apply saved Myset settings. [Myset1] - [Myset4] (P. 76) can be selected when the settings are registered.	—

Release/

MENU → →

Option	Description	
RIs Priority S	If [On] is selected, the shutter can be released even when the camera is not in focus. This option can be set separately for S-AF (P. 72) and C-AF (P. 72) modes.	—
RIs Priority C		
L fps	Choose the frame advance rates for [L] and [H]. Figures are the approximate maximums.	65
H fps		
+ IS Off	When set to [Off], the image stabilizer will turn on for sequential shooting.	—
Half Way RIs With IS	If set to [On], image stabilization operates when you press shutter button halfway.	—
Lens I.S. Priority	If [On] is selected, priority is given to the lens function operation when using a lens with an image stabilization function.	—
Release Lag-Time	If [Short] is selected, the time lag between fully pressing the shutter button and the shot being taken can be shortened.*	—

* This will shorten the battery life. Also make sure that the camera is not subject to sharp impacts while in use. Such impacts may cause the monitor to stop displaying subjects. If this happens, turn the power off and on again.

Option	Description																																			
HDMI	[HDMI Out]: Selecting the digital video signal format for connecting to a TV via an HDMI cable. [HDMI Control]: Select [On] to allow the camera to be operated using remotes for TVs that support HDMI control.	101																																		
Video Out	Choose the video standard ([NTSC] or [PAL]) used in your country or region.	101																																		
Control Settings	Choose the controls displayed in each shooting mode.	103																																		
	<table border="1"> <thead> <tr> <th rowspan="2">Controls</th> <th colspan="4">Shooting mode</th> </tr> <tr> <th>P/A/S/M</th> <th>AUTO</th> <th>ART</th> <th>SCN</th> </tr> </thead> <tbody> <tr> <td>Live Control (P. 31)</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Live SCP (P. 104)</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Live Guide (P.29)</td> <td>—</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Art Menu</td> <td>—</td> <td>—</td> <td>✓</td> <td>—</td> </tr> <tr> <td>Scene Menu</td> <td>—</td> <td>—</td> <td>—</td> <td>✓</td> </tr> </tbody> </table>		Controls	Shooting mode				P/A/S/M	AUTO	ART	SCN	Live Control (P. 31)	✓	✓	✓	✓	Live SCP (P. 104)	✓	✓	✓	✓	Live Guide (P.29)	—	✓	—	—	Art Menu	—	—	✓	—	Scene Menu	—	—	—	✓
	Controls			Shooting mode																																
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Live Guide (P.29)	—	✓	—	—																																
Art Menu	—	—	✓	—																																
Scene Menu	—	—	—	✓																																
Info Settings	Choose the information displayed when the INFO button is pressed. [Info]: Choose the information displayed in full frame playback. [LV-Info]: Choose the information displayed when the camera is in shooting mode. [Settings]: Choose the information displayed in index and calendar playback.	105, 106																																		
Displayed Grid	Select [Grid], [Grid], [Grid], [Grid] or [Grid] to display a grid on the monitor.	—																																		
Picture Mode Settings	Display only the selected picture mode when a picture mode is selected.	—																																		
Histogram Settings	[Highlight]: Choose the lower bound for the highlight display. [Shadow]: Choose the upper bound for the shadow display.	105																																		
Mode Guide	Choose [Off] to not display help for the selected mode when the mode dial is rotated to a new setting.	17																																		
Live View Boost	If [On] is selected, priority will be given to making images clearly visible; the effects exposure compensation and other settings will not be visible in the monitor.	—																																		
Frame Rate	Select [High] to reduce frame lag. However, the image quality may drop.	—																																		
Art LV Mode	[mode1]: The filter effect is always displayed. [mode2]: Filter effects are not visible in the monitor while the shutter button is pressed halfway. Choose for a smooth display.	—																																		
Flicker reduction	Reduce the effects of flicker under some kinds of lighting, including fluorescent lamps. When flicker is not reduced by the [Auto] setting, set to [50Hz] or [60Hz] in accordance with the commercial power frequency of the region where the camera is used.	—																																		


Option	Description	
LV Close Up Mode	[mode1]: Pressing the shutter button halfway cancels zoom. [mode2]: Zoom is not cancelled when the shutter button is pressed halfway.	53
Peaking Settings	You can switch the edge enhancement color between white and black.	—
Backlit LCD	If no operations are performed for the selected period, the backlight will dim to save battery power. The backlight will not dim if [Hold] is selected.	—
Sleep	The camera will enter sleep (energy saving) mode if no operations are performed for the selected period. The camera can be reactivated by pressing the shutter button halfway.	—
Auto Power Off	Sets camera to turn off after a set period.	—
■/ (Beep sound)	When set to [Off], you can turn off the beep sound that is emitted when the focus locks by pressing the shutter button.	—
USB Mode	Choose a mode for connecting the camera to a computer or printer. Choose [Auto] to display USB mode options every time the camera is connected.	—
Multi Function Settings	Choose whether to display the functions that can be assigned to the multi-function button in a menu. Five functions can be displayed: [Color Creator], [ISO/ WB], [WB/ ISO], [Magnify] and [Image Aspect]. [Highlight&Shadow Control] is always displayed.	23

Option	Description	
EV Step	Choose the size of the increments used when selecting shutter speed, aperture, exposure compensation, and other exposure parameters.	—
Noise Reduct.	This function reduces the noise that is generated during long exposures. [Auto]: Noise reduction is performed at slow shutter speeds, or when the internal temperature of the camera has risen. [On]: Noise reduction is performed with every shot. [Off]: Noise reduction off. <ul style="list-style-type: none"> • Noise reduction requires about twice the time needed to record the image. • Noise reduction turns off automatically during sequential shooting. • This function may not work effectively with some shooting conditions or subjects. 	43
Noise Filter	Choose the amount of noise reduction performed at high ISO sensitivities.	—
ISO	Set ISO sensitivity.	73
ISO Step	Select the increments available for choosing ISO sensitivity.	—

Option	Description	
ISO-Auto Set	Choose the upper limit and default value used for ISO sensitivity when [Auto] is selected for ISO. [High Limit]: Choose the upper limit for auto ISO sensitivity selection. [Default]: Choose the default value for auto ISO sensitivity selection.	—
ISO-Auto	Choose the shooting modes in which [Auto] ISO sensitivity is available. [P/A/S]: Auto ISO sensitivity selection is available in all modes except M . ISO sensitivity is fixed at ISO200 in mode M . [All]: Auto ISO sensitivity selection is available in all modes.	—
Metering	Choose a metering mode according to the scene.	71
AEL Metering	Choose the metering method used for AE lock (P. 97). [Auto]: Use the currently selected metering method.	—
BULB/TIME Timer	Choose the maximum exposure for bulb and time photography.	—
BULB/TIME Monitor	Set the monitor brightness when [BULB], [TIME], or [COMP] is used.	—
Live BULB	Choose the display interval during shooting. Some restrictions apply. The frequency drops at high ISO sensitivities. Choose [Off] to disable the display. Tap the monitor or press the shutter button halfway to refresh the display.	—
Live TIME		—
Anti-Shock [⬆]	Choose the delay between the shutter button being pressed and the shutter being released. This diminishes camera shake caused by vibrations. This feature is useful in situations such as microscope photography and astrophotography. It is also useful for sequential shooting (P. 65) and self timer photography (P. 65).	—
Composite Settings	Set an exposure time to be the reference in composite photography (P. 42).	—

Option	Description	
⚡ X-Sync.	Choose the shutter speed used when the flash fires.	106
⚡ Slow Limit	Choose the slowest shutter speed available when a flash is used.	106
📄+📄	When set to [On], it will be added to the exposure compensation value and flash intensity control will be performed.	50, 70




Option	Description	
Set	<p>You can select the JPEG image quality mode from combinations of three image sizes and four compression rates.</p> <ol style="list-style-type: none"> 1) Use to select a combination (1) – 4) and use to change. 2) Press . <div data-bbox="616 230 847 390" style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Image size Compression rate</p> </div>	67
Pixel Count	<ol style="list-style-type: none"> 1) Select iddle or mall and press . 2) Choose a pixel count and press . <div data-bbox="616 497 847 658" style="border: 1px solid black; padding: 5px;"> </div>	67
Shading Comp.	<p>Choose [On] to correct peripheral illumination according to the type of lens.</p> <ul style="list-style-type: none"> • Compensation is not available for teleconverters or extension tubes. • Noise may be visible at the edges of photographs taken at high ISO sensitivities. 	—
WB	<p>Set the white balance. This is the same as the live control setting. You can also fine-tune the white balance for each mode. You can also make fine adjustments using white balance compensation on the super control panel (P. 24).</p>	63
All	<p>[All Set]: Use the same white balance compensation in all modes except [CWB].</p> <p>[All Reset]: Set white balance compensation for all modes except [CWB] to 0.</p>	—
Keep Warm Color	<p>Select [Off] to eliminate “warm” colors from pictures taken under incandescent lighting.</p>	—
+WB	<p>Adjust white balance for use with a flash.</p>	—
Color Space	<p>You can select how colors are reproduced on the monitor or printer.</p>	—

Option	Description	
Quick Erase	If [On] is selected, pressing the button in the playback display will immediately delete the current image.	—
RAW+JPEG Erase	Choose the action performed when a photograph recorded at a setting of RAW+JPEG is erased in single-frame playback (P. 34). [JPEG]: Only the JPEG copy is erased. [RAW]: Only the RAW copy is erased. [RAW+JPEG]: Both copies are erased. • Both the RAW and JPEG copies are deleted when selected images are deleted or when [All Erase] (P. 75) is selected.	67
File Name	[Auto]: Even when a new card is inserted, the file numbers are retained from the previous card. File numbering continues from the last number used or from the highest number available on the card. [Reset]: When you insert a new card, the folder numbers starts at 100 and the file name starts at 0001. If a card containing images is inserted, the file numbers start at the number following the highest file number on the card.	—
Edit Filename	Choose how image files are named by editing the portion of the filename highlighted below in gray. sRGB: Pmdd0000.jpg _____ Pmdd Adobe RGB: _mdd0000.jpg _____ mdd	—
Priority Set	Choose the default selection ([Yes] or [No]) for confirmation dialogs.	—
dpi Settings	Choose the print resolution.	—
Copyright Settings*	Add the names of the photographer and copyright holder to new photographs. Names can be up to 63 characters long. [Copyright Info.]: Select [On] to include the names of the photographer and copyright holder in the Exif data for new photographs. [Artist Name]: Enter the name of the photographer. [Copyright Name]: Enter the name of the copyright holder. <div style="border: 1px solid gray; padding: 5px;"> <ol style="list-style-type: none"> Highlight a character ① and press to add the highlighted character to the name ②. Repeat Step 1 to complete the name, then highlight [END] and press . <ul style="list-style-type: none"> To delete a character, press the INFO button to place the cursor in the name area ②, highlight the character, and press . </div> 	—

* OLYMPUS does not accept liability for damages arising from disputes involving the use of [Copyright Settings]. Use at your own risk.









Movie

MENU → ⚙️ → 📷

Option	Description	👉
 Mode	Choose a movie record mode. This option can also be selected using the live control.	66
Movie 	Choose [Off] to record silent movies. This option can also be selected using the live control.	73
Movie Effect	Choose [On] to enable movie effects in  mode.	43
Wind Noise Reduction	Reduce wind noise during recording.	—
Recording Volume	Choose the sensitivity of the camera's internal microphone. Adjust the sensitivity using the rear dial or Δ ∇ while checking the peak sound level picked up by the microphone over the previous few seconds.	—
Movie+Photo Mode	Choose the way in which photographs are taken during movie recording. [mode1]: Take photographs during movie recording without stopping recording. [mode2]: Stop recording to take photographs. Recording will resume after the photograph is taken.	22, 27

Built-In EVF

MENU → ⚙️ → 📷

Option	Description	👉
Built-in EVF Style	Choose the viewfinder display style.	—
 Info Settings*	Like the monitor, the viewfinder can be used to display histograms and highlights and shadows.	—
 Displayed Grid*	Display a framing grid in the viewfinder. Choose from  ,  ,  , and  .	—
EVF Auto Switch	If [Off] is selected, the viewfinder will not turn on when you put your eye to the viewfinder. Use the  button to switch the display.	—
EVF Adjust	Adjust viewfinder brightness and hue. Brightness is automatically adjusted when [EVF Auto Luminance] is set to [On].	—
 Half Way Level*	If set to [Off], the level gauge will not be displayed when the shutter button is pressed halfway down.	—

* This is effective when [Built-in EVF Style] is set to [Style 1] or [Style 2].

Option	Description	
Pixel Mapping	The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions.	137
Exposure Shift	Adjust correct exposure separately for each metering mode. <ul style="list-style-type: none"> This reduces the number of exposure compensation options available in the selected direction. The effects are not visible in the monitor. To make normal adjustments to the exposure, perform exposure compensation (P. 50). 	—
Warning Level	Choose the battery level at which the warning is displayed.	15
Level Adjust	You can calibrate the angle of the level gauge. [Reset]: Resets adjusted values to the default settings. [Adjust]: Sets the current camera orientation as the 0 position.	—
Touch Screen Settings	Activate the touch screen. Choose [Off] to disable the touch screen.	—
Eye-Fi*	Enable or disable upload when using an Eye-Fi card. Displayed when an Eye-Fi card is inserted.	—
Electronic Zoom Speed	You can change the zoom speed used when operating the power zoom lens (ED 14-42mm f3.5-5.6 EZ) with the zoom ring.	122

* Use in accordance with local regulations. Onboard airplanes and in other locations in which the use of wireless devices is prohibited, remove the Eye-Fi card from the camera, or select [Off] for [Eye-Fi]. The camera does not support the "endless" Eye-Fi mode.

AEL/AFL

MENU → → → [AEL/AFL]

Autofocus and metering can be performed by pressing the button to which AEL/AFL has been assigned. Choose a mode for each focus mode.





AEL/AFL

Mode		Shutter button function				Button function	
		Half-press		Full press		When holding down AEL/AFL	
		Focus	Exposure	Focus	Exposure	Focus	Exposure
S-AF	mode1	S-AF	Locked	—	—	—	Locked
	mode2	S-AF	—	—	Locked	—	Locked
	mode3	—	Locked	—	—	S-AF	—
C-AF	mode1	C-AF start	Locked	Locked	—	—	Locked
	mode2	C-AF start	—	Locked	Locked	—	Locked
	mode3	—	Locked	Locked	—	C-AF start	—
	mode4	—	—	Locked	Locked	C-AF start	—
MF	mode1	—	Locked	—	—	—	Locked
	mode2	—	—	—	Locked	—	Locked
	mode3	—	Locked	—	—	S-AF	—

MF Assist

MENU →  →  → [MF Assist]

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. When you stop operating the focus ring, the screen returns to the original display.

Magnify	Magnifies a portion of the screen. The portion to be magnified can be set in advance using AF target.  [AF Area] (P.51)
Peaking	Displays clearly defined outlines with edge enhancement. You can select the enhancement color.  [Peaking Settings] (P.92)

Notes

- [Magnify] and [Peaking] can be displayed using button operations. The display is switched every time the button is pressed. Assign the switching function to one of the buttons in advance using [Button Function] (P. 99).

Cautions

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

Button Function

MENU → → → [Button Function]

See the table below for the functions that can be assigned. The options available vary from button to button.

Button function items

[Fn] Function / [Fn2] Function / [⊙] Function*1 / [▷] Function / [▽] Function / [⊞] Function / (Direct Function)*2 / [□] *3 / [L-Fn] Function*4












*1 Not available in mode.







*2 Assign the function to each of .

*3 Choose the AF target.

*4 Choose the function assigned to the button on some lenses.

	Adjust exposure compensation.
	Adjust ISO sensitivity using the front dial and white balance using the rear dial.
	Adjust white balance using the front dial and ISO sensitivity using the rear dial.
AEL/AFL	AE lock or AF lock. The function changes according to the [AEL/AFL] setting. When AEL is selected, press the button once to lock the exposure and display AEL on the monitor. Press the button again to cancel the lock.
REC	Press the button to record a movie.
(Preview)	Aperture is stopped down to the selected value while the button is pressed.
(One-touch white balance)	The camera measures white balance when the button is pressed (P. 64).
(AF area)	Choose the AF target.
Home	Pressing the button selects the AF target position saved with [□] Set Home] (P. 89). The home AF target position is indicated by a HP icon. Press the button again to return to AF target mode. If the camera is turned off when the home position is selected, the home position will be reset.
MF	Press the button to select manual focus mode. Press the button again to restore the previously selected AF mode.
RAW	Press the button to toggle between JPEG and RAW+JPEG record modes.
TEST (Test Picture)	Pictures taken while the button is pressed are displayed in the monitor but are not recorded to the memory card.
Myset1–Myset4	Switches among the registered Myset settings when the button is pressed. Press the button again to return.

 Level Disp	Press the button to display the level gauge and press it again to turn off the level gauge. The level gauge is available when [Style 1] or [Style 2] is set in [Built-in EVF Style].
	The button can be used to choose between  and  while the underwater case is attached. Press and hold the button to return to the previous mode. If you assign this function to a button, switching between  and  while using a lens with power zoom functionality will automatically set lens to the WIDE end or TELE end.
Live Guide	Press the button to display live guides.
 (Digital Tele-converter)	Press the button to turn digital zoom on or off.
 (Magnify)	Press the button to display the zoom frame. Press again to magnify the image. Press and hold the button to turn off the zoom frame.
Peaking	Each press of the button switches the monitor between display/non-display. When Peaking is displayed, histogram and highlight/shadow display are not available.
AF Stop	Stops autofocus.
	Choose a sequential shooting or self timer option.
	Choose a flash mode.
HDR	Switches to HDR shooting with the saved settings.
BKT	Turns on BKT shooting using stored settings.
Multi Function	Press the button to recall the selected multi function*. When switching recalled functions, press the button while turning the dial.
 Lock (Touch panel lock)	Press and hold the button to enable and disable touch panel operation.
Electronic Zoom	When using a lens with a power zoom function, after pressing the button, use the arrow pad for zooming operations.

* Multi function:  (Highlight and shadow control),  (Color Creator),  (ISO sensitivity/White balance),  (White balance/ISO sensitivity),  (Zoom frame AF/zoom AF),  (Image Aspect)

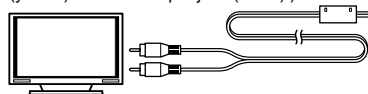
Viewing camera images on TV

MENU → → → [HDMI], [Video Out]

Use the separately sold cable with the camera to playback recorded images on your TV. Connect the camera to an HD TV using an HDMI cable to view high-quality images on a TV screen. When connecting TVs using an AV cable, first set the camera's [Video Out] settings (P. 91).

AV cable (optional: CB-AVC3)

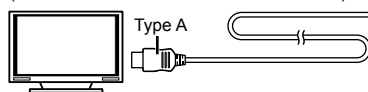
(Connect to the TV video input jack (yellow) and audio input jack (white).)



Multi-connector

HDMI cable

(Connect to the HDMI connector on the TV.)



Type A

HDMI connector
(type D)

1 Connect the TV and camera and switch the input source of the TV.

- The camera monitor turns off when the cable is connected.
- Press the button when connecting via an AV cable.


Cautions

- For details on changing the input source of the TV, refer to the TV's instruction manual.
- Depending on the TV's settings, the displayed images and information may become cropped.
- If the camera is connected using both an AV and HDMI cables, it will assign priority to HDMI.
- If the camera is connected via an HDMI cable, you will be able to choose the digital video signal type. Choose a format that matches the input format selected with the TV.

1080i	Priority is given to 1080i HDMI output.
720p	Priority is given to 720p HDMI output.
480p/576p	480p/576p HDMI output. 576p is used when [PAL] is selected for [Video Out] (P. 91).

- You cannot shoot pictures or movies when the HDMI cable is connected.
- Do not connect the camera to other HDMI output devices. Doing so may damage the camera.
- HDMI output is not performed while connected via USB to a computer or printer.

Using the TV remote control

The camera can be operated by a TV remote control when connected to a TV that supports HDMI control.  [HDMI] (P. 91)

Notes

- You can operate the camera by following the operation guide displayed on the TV.
- During single-frame playback, you can display or hide the information display by pressing the “Red” button, and display or hide the index display by pressing the “Green” button.
- Some televisions may not support all features.

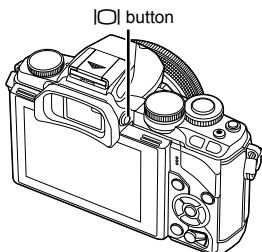
Choosing the control panel displays

MENU → → → Control Settings]

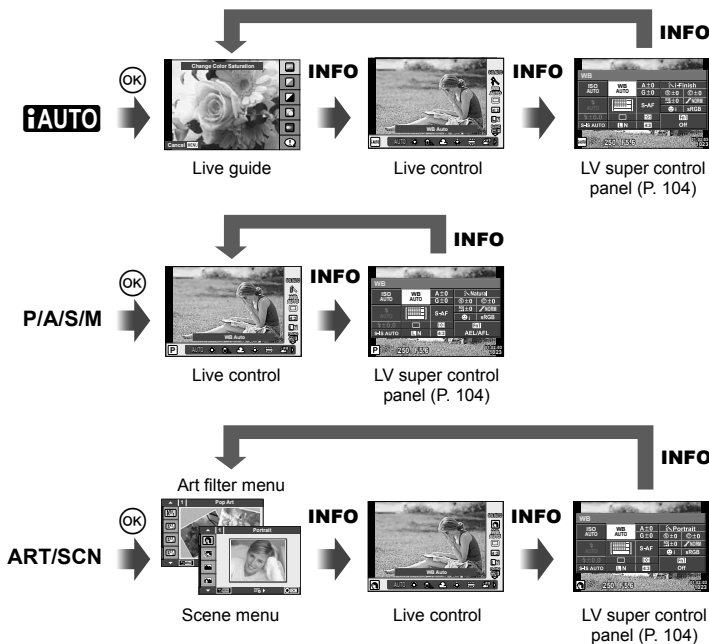
Sets whether or not to display control panels for option selection when shooting using live view. When each screen is displayed, the displays can be switched as shown below.

How to display control panels

- 1 Press the button and select live view shooting mode.

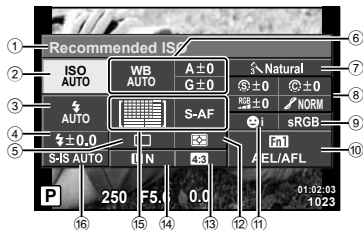


- 2 Press the button while the control panel is displayed, then press the **INFO** button to switch the display.



LV super control panel

This is the super control panel that is used for option setting when shooting using live view. Shooting setting statuses are displayed in a list. Select options using the arrow pad or touch operations to change the settings.



Settings that can be modified using LV super control panel

- | | | | |
|---|---|--------------|---------------------------------------|
| ① | Currently selected option | Gradation | P. 77 |
| ② | ISO sensitivity..... P. 73 | B&W Filter | P. 77 |
| ③ | Flash mode..... P. 68 | Picture tone | P. 78 |
| ④ | Flash intensity control..... P. 70 | ⑨ | Color space..... P. 94 |
| ⑤ | Sequential shooting/self-timer..... P. 65 | ⑩ | Button function assignment..... P. 99 |
| ⑥ | White balance..... P. 63 | ⑪ | Face priority..... P. 52 |
| | White balance compensation | ⑫ | Metering mode..... P. 71 |
| ⑦ | Picture mode..... P. 62 | ⑬ | Aspect ratio..... P. 54 |
| ⑧ | Sharpness | ⑭ | Record mode..... P. 67 |
| | Contrast | ⑮ | AF mode..... P. 72 |
| | Saturation | ⑯ | AF target..... P. 51 |
| | | ⑰ | Image stabilizer..... P. 60 |

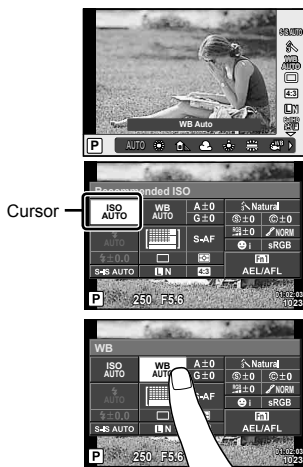
! Cautions

- Not displayed in movie record mode.

- Press the **OK** button when shooting using live view.
 - Live control is displayed.
- Press the **INFO** button to display the LV super control panel.
 - Each time you press the **INFO** button, the display switches.
- Touch the function you wish to set.
 - The cursor appears over the touch function.
- Press the **OK** button to select a settings value.

Notes

- Also available in the **ART** or **SCN** menu screens. Touch the icon of the function you wish to select.



Adding information displays

MENU → → → [Info Settings]

LV-Info (Shooting information displays)

Use [LV-Info] to add the following shooting information displays. The added displays are displayed by repeatedly pressing the **INFO** button during shooting. You can also choose to not show displays that appear at the default setting.



Histogram display



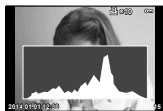
Highlight & Shadow display

Highlight & Shadow display

Areas above the upper limit of brightness for the image are shown in red, those below the lower limit in blue. [Histogram Settings] (P. 91)

▶ Info (Playback information displays)

Use [▶ Info] to add the following playback information displays. The added displays are displayed by repeatedly pressing the **INFO** button during playback. You can also choose to not show displays that appear at the default setting.



Histogram display



Highlight & Shadow display



Light box display

Light box display

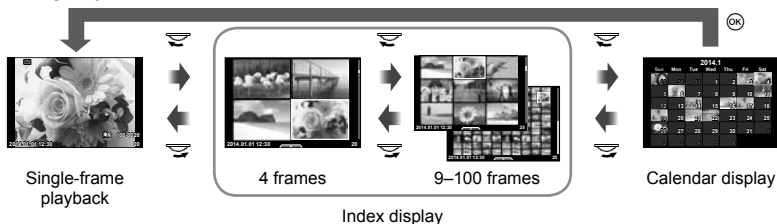
Compare two images side-by-side. Press the **OK** button to select the image on the opposite side of the display.

- The base image is displayed on the right. Use to select an image and press the **OK** button to move the image to the left. The image to be compared to the image on the left can be selected on the right. To choose a different base image, highlight the right frame and press the **OK** button.
- Press **Fn1** to zoom in on the current image. To change the zoom ratio, turn the rear dial. When zooming in, you can use to scroll to other areas of the image, and the front dial to select between images.



Settings (Index/calendar display)

You can add an index display with a different number of frames and calendar display using [Settings]. The additional screens are displayed by turning the rear dial during playback.



Shutter speeds when the flash fires automatically

MENU → → → [⚡ X-Sync.] [⚡ Slow Limit]

You can set shutter speed conditions for when the flash fires.

Shooting mode	Flash timing (synchronous)	Upper limit	Lower limit
P	The slower of 1/(lens focal length×2) and the [⚡ X-Sync.] settings	[⚡ X-Sync.] setting*	[⚡ Slow Limit] setting
A			No lower limit
S	The set shutter speed		
M			

* 1/250 seconds when using the internal flash, 1/200 seconds or 1/180 seconds (FL-50R only) when using a separately sold external flash.

You can use the wireless LAN function on this camera to connect to a Wi-Fi compatible smartphone. You can then use the smartphone to share (view and send images) or operate the camera. To connect, you will need to install the OI.Share (OLYMPUS IMAGE SHARE) App on the smartphone.

For details visit:

<http://olympuspen.com/OIShare/>

⚠ Cautions

- Before using the wireless LAN function, read "Precautions when using the wireless LAN function" (P. 149).
- If using the wireless LAN function in a country outside the region where the camera was purchased, there is a risk that the camera will not conform to the wireless communication regulations of that country. Olympus will not be held responsible for any failure to meet such regulations.
- As with any wireless communication, there is always a risk of interception by a third party.
- The wireless LAN function on the camera cannot be used to connect to a home or public access point.

Setting up your camera for wireless LAN connection (Wi-Fi settings)

To use the wireless LAN functions on the camera, you need to make setting such as the password to be used when connecting. [Private], which uses the same settings every time you connect, and [One-Time], which is limited to a one-time connection are available.

Setting a password selection method

- 1 Select [Wi-Fi Settings] in the **f** Setup Menu and press **OK**.
- 2 Select [Wi-Fi Connect Settings] and press **▷**.
- 3 Select the wireless LAN connection method and press **OK**.
 - [Private]: Connect using a preset password.
 - [One-Time]: Connect using a different password each time.
 - [Select]: Select which method to use each time.
 - [Off]: The Wi-Fi function is turned off.





Changing private connection password

Change the password used for [Private].

- 1 Select [Wi-Fi Settings] in the **f** Setup Menu and press **OK**.
- 2 Select [Private Password] and press **▷**.
- 3 Follow the operation guide and press the **OK** button.
 - A new password will be set.





To cancel sharing selections

Clear share order from the selected images.

- 1 Select [Wi-Fi Settings] in the  Setup Menu and press .
- 2 Select [Reset share Order] and press .
- 3 Select [Yes] and press .





Initializing wireless LAN settings

Initializes content of [Wi-Fi Settings].



- 1 Select [Wi-Fi Settings] in the  Setup Menu and press .
- 2 Select [Reset Wi-Fi Settings] and press .
- 3 Select [Yes] and press .

Selecting images you wish to share (Share Order)

To select an image you wish to share, set [Share Order] on the image.

- 1 On the playback screen, touch the screen.
 - A touch menu will be displayed.
- 2 Select an image using a touch operation or  and then touch  on the touch menu.
 -  is displayed on the images selected for sharing.
 - To cancel the selection, touch  again.
- 3 Touch the screen to exit [Share Order].
 - After an image has been selected for sharing, the selected image will be shared when a Wi-Fi connection is established using [One-Time].




Cautions

- You can set a share order on a maximum around 200 frames.
- Share orders cannot include RAW images or Motion JPEG ( or ) movies.

Connecting to a smartphone

If you have a Wi-Fi compatible smartphone, you can use it to view images on the camera and transfer the images from the camera to the smartphone.

To make use of these features, start the OI.Share App on your smartphone.

- 1 Select [Connection to Smartphone] in the  Playback Menu and press .
- 2 Select a connection method and press the  button.

For private connection

Follow the guide displayed on the monitor.

For one-time connection

Follow the instructions displayed on the monitor.


- 3 Press **MENU** on the camera or touch [End Wi-Fi] on the monitor screen.
 - You can also end the connection with OI.Share or by turning off your camera.
 - The connection ends.

Cautions

- The wireless LAN antenna is contained in the camera grip. Where possible, avoid covering the antenna with your hands.
- During wireless LAN connection, the battery will run down faster. If the battery is running low, the connection may be lost during a transfer.
- Connection may be difficult or slow in proximity to devices that generate magnetic fields, static electricity or radio waves, such as near microwaves, cordless telephone.

Operating the camera with your smartphone

You can shoot pictures with the camera by performing operations on your smartphone. Before starting, start the smartphone app OI.Share on your smartphone. This function is only available when connected with [Private].

- 1 Start [Connection to Smartphone] in your camera.
 - You can also connect by touching  on the shooting screen.
- 2 Shoot pictures using your smartphone.

Cautions

- Log position information is only available when using a smartphone with a GPS function.
- Not all camera functions are available over the wireless LAN connection.

Adding position information to images


Synchronize the time and date on your camera with your smartphone

Synchronize the time and date on your smartphone and camera to allow position information to be added to images on your camera. Start time synchronization in OI.Share.

- It may take a minute or so for the camera time to synchronize.

Adding smartphone position information to images

Using OI.Share, you can send position information recorded by your smartphone to the camera and add to the images on the memory card.

-  is displayed on images to which position information has been added.
- Log position information is only available when using a smartphone with a GPS function.

Cautions

- Position information cannot be added to movies.

Installing OLYMPUS Viewer 3

OLYMPUS Viewer 3 is software for importing to your computer, and then viewing, editing and managing the photographs and movies you have shot on your camera.

■ Windows

1 Insert the supplied CD in a CD-ROM drive.

Windows XP

- A "Setup" dialog will be displayed.

Windows Vista/Windows 7/Windows 8/Windows 8.1

- An Autorun dialog will be displayed. Click "OLYMPUS Setup" to display the "Setup" dialog.



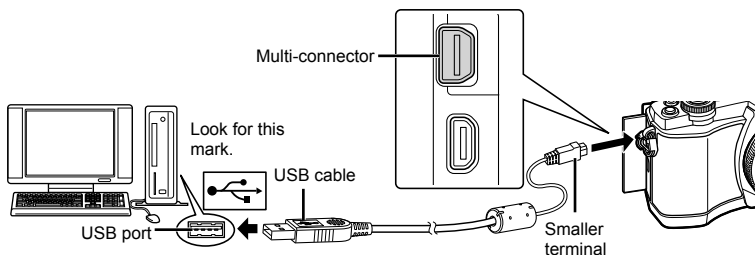
! Cautions

- If the "Setup" dialog is not displayed, select "My Computer" (Windows XP) or "Computer" (Windows Vista/Windows 7) from the start menu. Double-click the CD-ROM (OLYMPUS Setup) icon to open the "OLYMPUS Setup" window and then double-click "LAUNCHER.EXE".
- If a "User Account Control" dialog is displayed, click "Yes" or "Continue".

2 Connect the camera to your computer.

! Cautions

- If nothing is displayed on the camera screen even after connecting the camera to the computer, the battery may be exhausted. Use a full-charged battery.



! Cautions

- When the camera is connected to another device via USB, a message will be displayed prompting you to choose a connection type. Select [Storage].

3 Register your Olympus product.

- Click the “Registration” button and follow the on-screen instructions.

4 Install OLYMPUS Viewer 3.

- Check the system requirements before beginning installation.
- Click the “OLYMPUS Viewer 3” button and follow the on-screen instructions to install the software.

Operating Environment

Operating System	Windows XP SP3/Windows Vista SP2/ Windows 7 SP1/Windows 8/Windows 8.1
Processor	Pentium 4 1.3 GHz or better (Core2Duo 2.13 GHz or better required for movies)
RAM	1 GB or more (2 GB or more recommended)
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 × 768 pixels or more Minimum 65,536 colors (16,770,000 colors recommended)

- For details on how to use the software, please see the help function in the software.

■ Macintosh

1 Insert the supplied CD in a CD-ROM drive.

- The disk contents should automatically be displayed in the Finder. If they are not, double-click the CD icon on the desktop.
- Double-click the “Setup” icon to display the “Setup” dialog.



2 Install OLYMPUS Viewer 3.

- Check the system requirements before beginning installation.
- Click the “OLYMPUS Viewer 3” button and follow the on-screen instructions to install the software.



Operating Environment

Operating System	Mac OS X v10.5–v10.8
Processor	Intel Core Solo/Duo 1.5 GHz or better (Core2Duo 2 GHz or better required for movies)
RAM	1 GB or more (2 GB or more recommended)
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 × 768 pixels or more Minimum 32,000 colors (16,770,000 colors recommended)

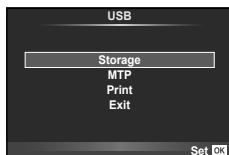
- To change language, select the language you wish to use from the language combo box. For details on how to use the software, please see the help function in the software.

Copying pictures to a computer without OLYMPUS Viewer 3

Your camera supports the USB Mass Storage Class. You can transfer images to a computer by connecting the camera to the computer with the provided USB cable. The following operating systems are compatible with the USB connection:

- Windows:** Windows XP SP3/
Windows Vista SP2/Windows 7 SP1/Windows 8/Windows 8.1
- Macintosh:** Mac OS X 10.5 - v.10.8

- 1 Turn the camera off and connect it to the computer.
 - The location of the USB port varies with the computer. For details, refer to your computer's manual.
- 2 Turn on the camera.
 - The selection screen for the USB connection is displayed.
- 3 Press Δ ∇ to select [Storage]. Press OK .
- 4 The computer recognizes the camera as a new device.



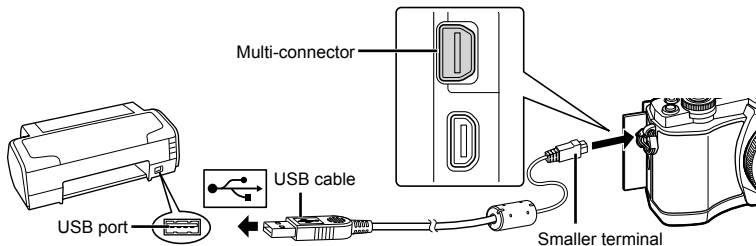
! Cautions

- If you are using Windows Photo Gallery for Windows Vista, Windows 7, Windows 8 or Windows 8.1, choose [MTP] in Step 3.
- 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
 - Home-built computers
- Camera controls cannot be used while the camera is connected to a computer.
- If the dialog shown in Step 2 is not displayed when the camera is connected to a computer, select [Auto] for [USB Mode] (P. 92) in the camera custom menus.

Direct printing (PictBridge)

By connecting the camera to a PictBridge-compatible printer with the USB cable, you can print out recorded pictures directly.

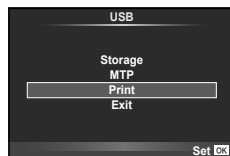
- 1 Connect the camera to the printer using the supplied USB cable and turn the camera on.



- Use a fully charged battery for printing.
- When the camera is turned on, a dialog should be displayed in the monitor prompting you to choose a host. If it is not, select [Auto] for [USB Mode] (P. 92) in the camera custom menus.

- 2 Use Δ ∇ to select [Print].

- [One Moment] will be displayed, followed by a print-mode selection dialog.
- If the screen is not displayed after a few minutes, disconnect the USB cable and start again from Step 1.



Proceed to “Custom printing” (P. 115).

⚠ Cautions

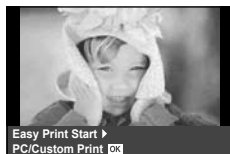
- 3D photos, RAW images, and movies cannot be printed.

Easy printing

Use the camera to display the picture you wish to print before connecting the printer via the USB cable.

- 1 Use \triangleleft \triangleright to display the pictures you want to print on the camera.
- 2 Press \triangleright .

- The picture selection screen appears when printing is completed. To print another picture, use \triangleleft \triangleright to select the image and press \odot .
- To exit, unplug the USB cable from the camera while the picture selection screen is displayed.



Custom printing

- 1 Follow the operation guide to set a print option.

Selecting the print mode

Select the type of printing (print mode). The available print modes are as shown below.

Print	Prints selected pictures.
All Print	Prints all the pictures stored in the card and makes one print for each picture.
Multi Print	Prints multiple copies of one image in separate frames on a single sheet.
All Index	Prints an index of all the pictures stored in the card.
Print Order	Prints according to the print reservation you made. If there is no picture with print reservation, this is not available.

Setting the print paper items

This setting varies with the type of printer. If only the printer's STANDARD setting is available, you cannot change the setting.

Size	Sets the paper size that the printer supports.
Borderless	Selects whether the picture is printed on the entire page or inside a blank frame.
Pics/Sheet	Selects the number of pictures per sheet. Displayed when you have selected [Multi Print].

Selecting pictures you want to print

Select pictures you want to print. The selected pictures can be printed later (single-frame reservation) or the picture you are displaying can be printed right away.



Print (OK)	Prints the currently displayed picture. If there is a picture that [Single Print] reservation has already been applied to, only that reserved picture will be printed.
Single Print (A)	Applies print reservation to the currently displayed picture. If you want to apply reservation to other pictures after applying [Single Print], use <D> to select them.
More (V)	Sets the number of prints and other items for the currently displayed picture, and whether or not to print it. For operation, refer to "Setting printing data" in the next section.

Setting printing data

Select whether to print printing data such as the date and time or file name on the picture when printing. When the print mode is set to [All Print] and [Option Set] is selected, the following options appears.

	Sets the number of prints.
Date	Prints the date and time recorded on the picture.
File Name	Prints the file name recorded on the picture.
	Trims the picture for printing. Use the dial to choose the crop size and $\Delta \nabla \triangleleft \triangleright$ to position the crop.

- Once you have set the pictures for printing and printing data, select [Print], then press \odot .
 - To stop and cancel printing, press \odot . To resume printing, select [Continue].

■ Cancelling printing

To cancel printing, highlight [Cancel] and press \odot . Note that any changes to the print order will be lost; to cancel printing and return to the previous step, where you can make changes to the current print order, press **MENU**.

Print reservation (DPOF)

You can save digital “print orders” to the memory card listing the pictures to be printed and the number of copies of each print. You can then have the pictures printed at a print shop that supports DPOF or print the pictures yourself by connecting the camera directly to a DPOF printer. A memory card is required when creating a print order.

Creating a print order

- Press \odot during playback and select $\left[\text{Print} \right]$.
- Select $\left[\text{Print} \right]$ or $\left[\text{Print All} \right]$ and press \odot .

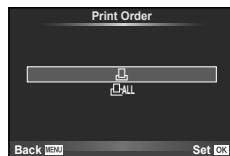
Individual picture

Press $\triangleleft \triangleright$ to select the frame that you want to set as print reservation, then press $\Delta \nabla$ to set the number of prints.

- To set print reservation for several pictures, repeat this step. Press \odot when all the desired pictures have been selected.

All pictures

Select $\left[\text{Print All} \right]$ and press \odot .



- 3 Select the date and time format and press **OK**.

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.



- 4 Select [Set] and press **OK**.

! Cautions

- The camera cannot be used to modify print orders created with other devices. Creating a new print order deletes any existing print orders created with other devices.
- Print orders cannot include 3D photos, RAW images, or movies.

Removing all or selected pictures from the print order

You can reset all print reservation data or just the data for selected pictures.

- 1 Press **OK** during playback and select **[]**.
- 2 Select **[]** and press **OK**.
 - To remove all pictures from the print order, select [Reset] and press **OK**. To exit without removing all pictures, select [Keep] and press **OK**.
- 3 Press **<>** to select images you wish to remove from the print order.
 - Use **∇** to set the number of prints to 0. Press **OK** once you have removed all the desired pictures from the print order.
- 4 Select the date and time format and press **OK**.
 - This setting is applied to all frames with print reservation data.
- 5 Select [Set] and press **OK**.

Battery and charger

- The camera uses a single Olympus lithium-ion battery. Never use any battery other than genuine OLYMPUS 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 [Release Lag-Time] (P. 90) is set to [Short].
 - When connected to a computer or printer.
- 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 using the provided charger before use.
- The normal charging time using the provided charger is approximately 3 hours 30 minutes (estimated).
- Do not attempt to use chargers not specifically designated for use with the supplied battery, or to use batteries not specifically designated for use with the supplied charger.

Cautions

- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions "Battery Handling Precautions" (P. 148).

Using your charger abroad

- The charger can be used in most home electrical sources within the range of 100V to 240V 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 charger may require a plug adapter to match the wall outlet. For details, ask at your local electrical shop or travel agent.
- Do not use commercially available travel adapters as the charger may malfunction.

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, SDXC, and Eye-Fi. For the latest information, please visit the Olympus website.



SD card write protect switch

The SD card body has a write protect switch. If you set the switch to the “LOCK” side, you will not be able to write to the card, delete data or format. Return the switch to the unlock position enable writing.



⚠ Cautions

- 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.
- Use the Eye-Fi card in compliance with the laws and regulations of the country where the camera is used. Remove the Eye-Fi card from the camera or disable the card functions in airplanes and other locations where use is prohibited. 📶 [Eye-Fi] (P. 97)
- The Eye-Fi card may become hot during use.
- When using an Eye-Fi card, the battery may run out faster.
- When using an Eye-Fi card, the camera may function more slowly.

Record mode and file size/number of storable still pictures

The file size in the table is approximate for files with a 4:3 aspect ratio.

Record mode	Number of pixels (Pixel Count)	Compression	File format	File size (MB)	Number of storable still pictures*
RAW	4608×3456	Loss-less compression	ORF	Approx. 17	41
L ^S F		1/2.7		Approx. 11	79
L ^F		1/4		Approx. 7.5	114
L ^N		1/8		Approx. 3.5	248
L ^B		1/12		Approx. 2.4	369
M ^S F	3200×2400	1/2.7	JPEG	Approx. 5.6	155
M ^F		1/4		Approx. 3.4	257
M ^N		1/8		Approx. 1.7	508
M ^B		1/12		Approx. 1.2	753
M ^S F		1/2.7		Approx. 3.2	271
M ^F	2560×1920	1/4	JPEG	Approx. 2.2	398
M ^N		1/8		Approx. 1.1	782
M ^B		1/12		Approx. 0.8	1151
M ^S F		1/2.7		Approx. 1.8	476
M ^F		1/4		Approx. 1.3	701
M ^N	1920×1440	1/8	JPEG	Approx. 0.7	1356
M ^B		1/12		Approx. 0.5	1968
M ^S F		1/2.7		Approx. 1.3	678
M ^F		1/4		Approx. 0.9	984
M ^N		1/8		Approx. 0.5	1906
M ^B	1600×1200	1/12	JPEG	Approx. 0.4	2653
S ^S F		1/2.7		Approx. 0.9	1034
S ^F		1/4		Approx. 0.6	1488
S ^N		1/8		Approx. 0.4	2773
S ^B		1/12		Approx. 0.3	3813
S ^S F	1024×768	1/2.7	JPEG	Approx. 0.6	1564
S ^F		1/4		Approx. 0.4	2260
S ^N		1/8		Approx. 0.3	4068
S ^B		1/12		Approx. 0.2	5547
S ^S F		1/2.7		Approx. 0.3	3589
S ^F	640×480	1/4	JPEG	Approx. 0.2	5085
S ^N		1/8		Approx. 0.2	7627
S ^B		1/12		Approx. 0.1	10170

*Assumes a 1GB SD card.

⚠ Cautions

- 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.
- For the available recording time for movies, see the Olympus website.

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 at right. With an adapter, you can also use Four Thirds System and OM System lenses.



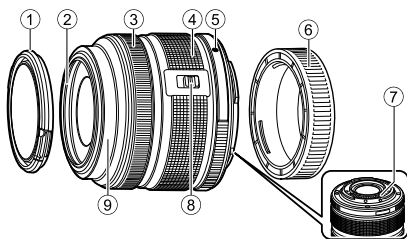
! Cautions

- 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.

M.ZUIKO DIGITAL lens specifications

■ Names of parts

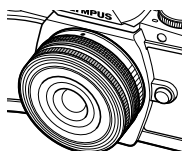
- ① Front cap
- ② Filter mount thread
- ③ Focus ring
- ④ Zoom ring (zoom lenses only)
- ⑤ Mount index
- ⑥ Rear cap
- ⑦ Electrical contacts
- ⑧ UNLOCK switch (only retractable lenses)
- ⑨ Decoration ring (only some lenses, remove when attaching a lens hood)



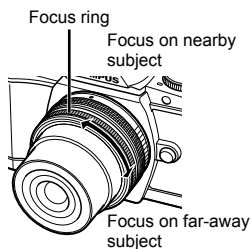
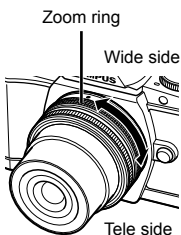
■ Using the power zoom lens (ED14-42mm f3.5-5.6EZ)

The power zoom lens is automatically extended when you turn on the camera.

When the camera is
turned off



When the camera is
turned on



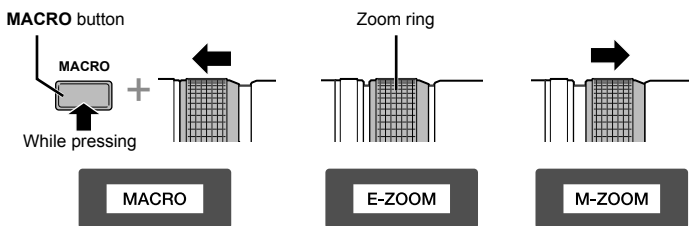
- You can use the camera custom menu to increase or decrease the zoom speed of zoom ring operations. [Electronic Zoom Speed] (P. 97)
- The automatic lens cap (optional: CL-37C) can be attached to the lens. When you attach to the lens, the cap opens or closes automatically according to whether the camera is on/off. There is no need to remove the cap every time you take a photograph. Cannot be used with a filter.

! Cautions

- Turn off the camera before attaching or removing the lens.
- Do not apply any pressure to the lens during lens operations, such as extending the lens.

■ Using power zoom lenses with macro functions (ED12-50mm f3.5-6.3EZ)

Lens operation is determined by the position of the zoom ring.

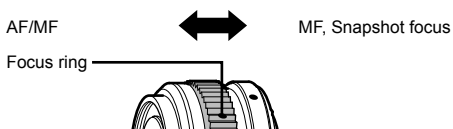


E-ZOOM (Power Zoom)	Rotate the zoom ring for power zoom. Zoom speed is determined by the amount of rotation.
M-ZOOM (Manual Zoom)	Rotate the zoom ring to zoom in and out.
MACRO (Macro Photography)	To photograph subjects at a range of 0.2 to 0.5 m, press the MACRO button and slide the zoom ring forward. Zoom is not available.

- The role of the **L-Fn** button can be selected in the camera custom menu.

■ MF (manual focus) control (17mm f1.8, ED12mm f2.0 (Snapshot focus), ED12-40mm f2.8PRO)

Slide the focus ring in the direction of the arrow to change the focus method.



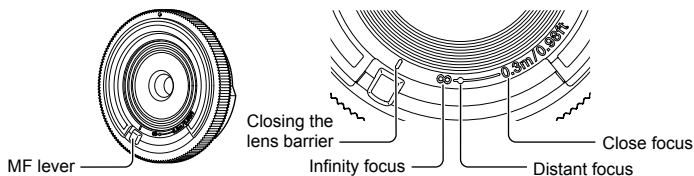
With snapshot focus, a distance is set using the focus ring based on the shooting distance. The camera focuses over a depth of field corresponding to the set aperture value.

- We recommend setting the aperture to F5.6 or above with a 17mm f1.8 or an ED12mm f2.0.
- You can shoot at the selected distance irrespective of the AF mode on the camera.
- Use the distance scale only as a guide.

■ Cap lens control (BCL-0980 Fisheye, BCL-1580)

Use the MF lever to open and close the lens barrier, and adjust the focus between infinity and close-up.

- There is no data communication between camera and lens.
- Some functions of the camera cannot be used.
- Set the focal distance for the image stabilization function (P. 60) to 9 mm for the BCL-0980 Fisheye and 15 mm for the BCL-1580.



■ 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
OM System lenses			No	Yes*2
Micro Four Thirds system lens	Four Thirds System Camera	No	No	No

*1 AF is not operational when recording movies.

*2 Accurate metering is not possible.

■ Main lens specifications

Items	ED14-42mm f3.5-5.6 EZ	14-42mm f3.5-5.6 II R	ED40-150mm f4.0-5.6R
Mount	Micro Four Thirds mount		
Focal length	14 – 42 mm	14 – 42 mm	40 – 150 mm
Max. aperture	f/3.5 – 5.6	f/3.5 – 5.6	f/4.0 – 5.6
Image angle	75° – 29°	75° – 29°	30.3° – 8.2°
Lens configuration	7 groups, 8 lenses	7 groups, 8 lenses	10 groups, 13 lenses
Iris control	f/3.5 – 22	f/3.5 – 22	f/4.0 – 22
Shooting range (Focal length)	0.2 m – ∞ (14 mm) 0.25 m – ∞ (42 mm)	0.25 m – ∞ (14 – 19 mm) 0.3 m – ∞ (20 – 42 mm)	0.9 m – ∞
Focus adjustment	AF/MF switching		
Weight (excluding hood and cap)	93 g	113 g	190 g
Dimensions (Max. diameter × length)	ø60.8×22.5 mm	ø56.5×50 mm	ø63.5×83 mm
Filter mount thread diameter	37 mm	37 mm	58 mm
Lens hood	–	LH-40D	LH-61D

Items	25mm f1.8	45mm f1.8	BCL-0980 Fisheye
Mount	Micro Four Thirds mount		
Focal length	25 mm	45 mm	9 mm
Max. aperture	f/1.8	f/1.8	f/8
Image angle	49.5°	27°	140°
Lens configuration	7 groups, 9 lenses	8 groups, 9 lenses	4 groups, 5 lenses
Iris control	f/1.8 – 22	f/1.8 – 22	Fixed to f/8
Shooting range (Focal length)	0.25 m – ∞	0.5 m – ∞	0.2 m – ∞
Focus adjustment	AF/MF switching		MF
Weight (excluding hood and cap)	137 g	116 g	28 g
Dimensions (Max. diameter × length)	ø57.8×42 mm	ø56×46 mm	ø56×12.8 mm
Filter mount thread diameter	46 mm	37 mm	–
Lens hood	LH-49B	LH-40B	–

⚠ Cautions

- Edges of pictures may be cut off if more than one filter is used or if a thick filter is used.

External flash units designated for use with this camera

With this camera, you can use one of the separately sold external flash units to achieve a flash suited to your needs. The external flashes communicate with the camera, allowing you to control the camera's flash modes with various available flash control modes, such as TTL-AUTO and Super FP flash. An external flash unit specified for use with this camera can be mounted on the camera by attaching it to the camera's hot shoe. You can also attach the flash to the flash bracket on the camera using the bracket cable (optional). Refer to the documentation provided with the external flash units as well.

The upper limit of the shutter speed is 1/200 sec. when using a flash*.

* FL-50R only: 1/180 sec.

Functions available with external flash units

Optional flash	Flash control mode	GN (Guide number) (ISO100)	RC mode
FL-600R	TTL-AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL	GN36 (85 mm*1) GN20 (24 mm*1)	✓
FL-300R	TTL-AUTO, MANUAL	GN20 (28 mm*1)	✓
FL-14	TTL-AUTO, AUTO, MANUAL	GN14 (28 mm*1)	—
RF-11	TTL-AUTO, MANUAL	GN11	—
TF-22		GN22	—

*1 The focal length of the lens that can be used (Calculated based on 35 mm film camera).

Wireless remote control flash photography

External flash units that are designated for use with this camera and have a remote control mode can be used for wireless flash photography. The camera can separately control each of three groups of remote flash units, and the internal flash. See the instruction manuals provided with the external flash units for details.

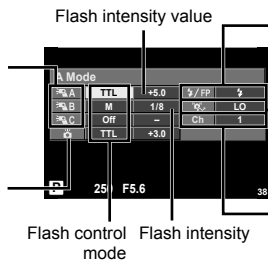
- Set the remote flash units to RC mode and place them as desired.
 - Turn the external flash units on, press the MODE button, and select RC mode.
 - Select a channel and group for each external flash unit.
- Select [On] for [⚡ RC Mode] in [📷 Shooting Menu 2 (P. 75)].
 - The super control panel switches to RC mode.
 - You can choose the super control panel display by repeatedly pressing the **INFO** button.
 - Select a flash mode (note that red-eye reduction is not available in RC mode).

3 Adjust the settings for each group in the super control panel.

Group

- Select the flash control mode and adjust the flash intensity separately for each group. For MANUAL, select the flash intensity.

Adjust settings for the camera flash unit.



Normal flash/Super FP flash

- Switch between normal flash and Super FP flash.

Communication light level

- Set the communication light level to [HI], [MID], or [LO].

Channel

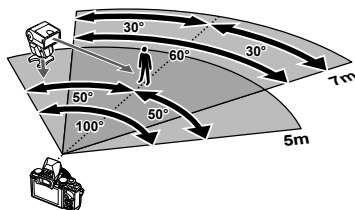
- Set the communication channel to the same channel used on the flash.

4 Press the flash switch to pop up the internal flash.

- After confirming that the built-in and remote flash units have charged, take a test shot.

■ Wireless flash control range

Position the wireless flash units with their remote sensors facing the camera. The following illustration shows the approximate ranges at which the flash units can be positioned. The actual control range varies with local conditions.



! Cautions

- We recommend using a single group of up to three remote flash units.
- Remote flash units cannot be used for second curtain slow synchronization or anti-shock exposures longer than 4 seconds.
- If the subject is too close to the camera, the control flashes emitted by the camera flash may affect exposure (this effect can be reduced by reducing the output of the camera flash by, for example, using a diffuser).
- The upper limit of flash synchronization timing is 1/160 sec. when using the flash in RC mode.

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 24 V to the X-contact will damage the camera.
- Connecting flash units with signal contacts that do not conform to Olympus specifications may damage the camera.
- Set the Shooting mode to **M**, set the shutter speed to a value no higher than flash synchronous speed, and set ISO sensitivity 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

Four Thirds lens adapter (MMF-2/MMF-3)

The camera requires a Four Thirds lens adapter to attach Four Thirds lenses. Some features, such as autofocus, may not be available.

Remote cable (RM-UC1)

Use when the slightest camera movement can result in blurred pictures, for example for macro or bulb photography. The remote cable attaches via the camera multi-connector.

Converter lenses

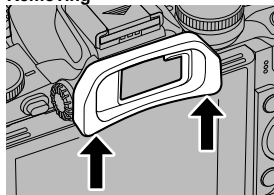
Converter lenses attach to the camera lens for quick and easy fish-eye or macro photography. See the OLYMPUS website for information on the lenses that can be used.

- Use the appropriate lens attachment for **SCN** mode (📷, 📷, or 📷).

Eyecup (EP-11)

You can exchange this for a larger eyecup.

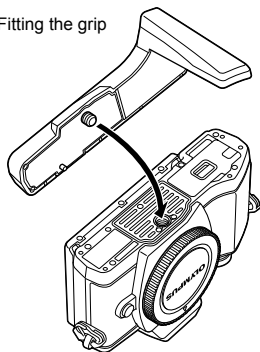
Removing



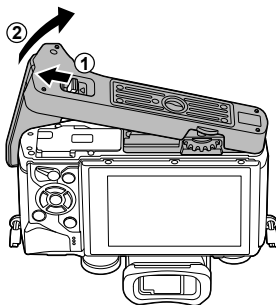
Camera grip (ECG-1)

The grip makes it easier to hold the camera steady when a large lens is attached. With the grip fitted, you can still easily change the battery or memory card.

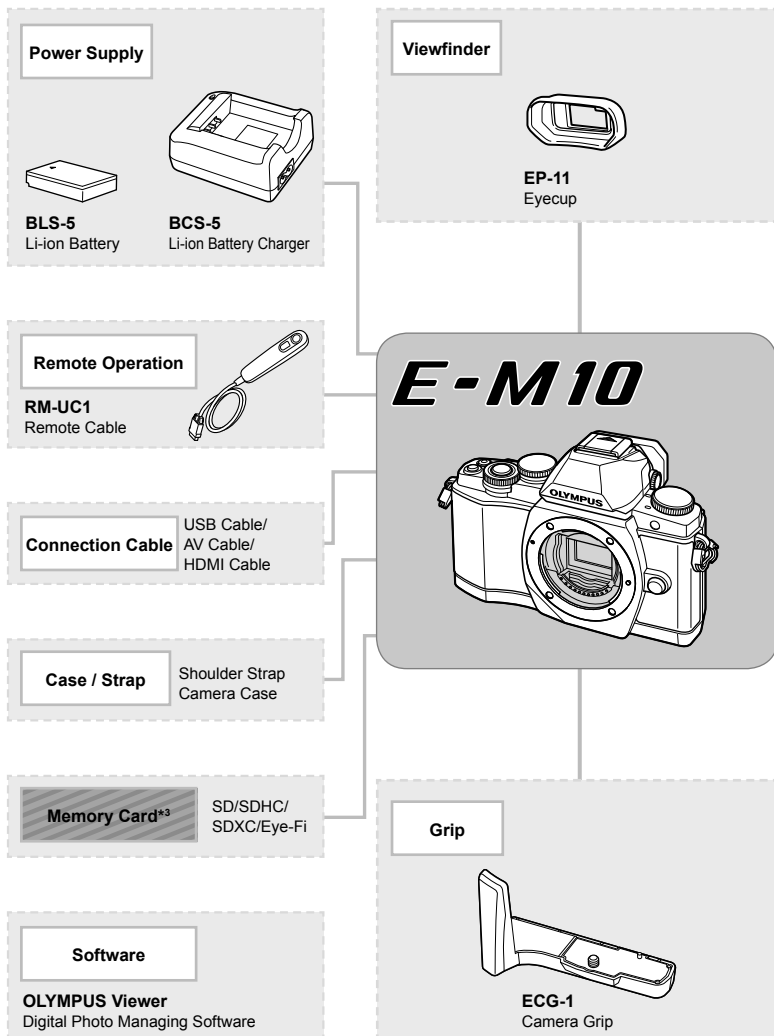
Fitting the grip



Detaching the bottom of the grip
(when changing the battery or
memory card)



System chart



*1 Not all lenses can be used with adapter. For details, refer to the Olympus Official Web Site. Also, please note that manufacture of OM System Lenses has been discontinued.

*2 For compatible lens, refer to the Olympus Official Web Site.

 : E-M10 compatible products

 : Commercially available products

For the latest information, please visit the Olympus website.

Lens



M.ZUIKO DIGITAL ED 12mm f2.0
M.ZUIKO DIGITAL 17mm f1.8
M.ZUIKO DIGITAL 17mm f2.8
M.ZUIKO DIGITAL 25mm f2.8
M.ZUIKO DIGITAL 45mm f1.8
M.ZUIKO DIGITAL ED 60mm f2.8 Macro
M.ZUIKO DIGITAL ED 75mm f1.8
M.ZUIKO DIGITAL ED 9-18mm f4.0-5.6
M.ZUIKO DIGITAL ED 12-40mm f2.8 PRO
M.ZUIKO DIGITAL ED 12-50mm f3.5-6.3 EZ
M.ZUIKO DIGITAL ED 14-42mm f3.5-6.3 EZ
M.ZUIKO DIGITAL 14-42mm f3.5-5.6 II R
M.ZUIKO DIGITAL ED 14-150mm f4.0-5.6
M.ZUIKO DIGITAL ED 40-150mm f4.0-5.6 R
M.ZUIKO DIGITAL 75-300mm f4.8-6.7 II

Converter Lens*2

FCON-P01
Fisheye

WCON-P01
Wide

MCON-P01
Macro

MCON-P02
Macro



MMF-2/MMF-3*1
Four Thirds Adapter



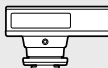
Four Thirds System Lenses



MF-2*1
OM Adapter 2

OM System Lenses

Flash



FL-14
Electronic Flash



FL-600R
Electronic Flash



FL-300R
Electronic Flash

SRF-11 Ring Flash Set



RF-11*2
Ring Flash

STF-22 Twin Flash Set



TF-22*2
Twin Flash

FC-1 Macro Flash Controller

12

Using separately sold accessories

*3 Use the Eye-Fi card in compliance with the laws and regulations of the country where the camera is used.

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 with the charger.

The battery is temporarily unable to function because of the cold


- Battery performance drops at low temperatures. Remove the battery and warm it by putting it in your pocket for a while.

No picture is taken when the shutter button is pressed

The camera has turned off automatically

- 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. 92)
If no operations are performed for a set time (4 hours) after the camera has entered sleep mode, the camera will turn off automatically.

The flash is charging

- On the monitor, the  mark blinks when charging is in progress. Wait for the blinking to stop, then press the shutter button.

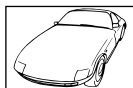
Unable to focus

- The camera cannot focus on subjects that are too close to the camera or that are not suited to autofocus (the AF confirmation mark will blink in the monitor). Increase the distance to the subject or focus on a high contrast object at the same distance from the camera as your main subject, compose the shot, and shoot.

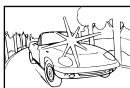
Subjects that are difficult to focus on

It may be difficult to focus with auto focus in the following situations.

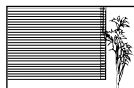
AF confirmation mark is blinking. These subjects are not focused.



Subject with low contrast



Excessively bright light in center of frame

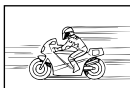


Subject containing no vertical lines

AF confirmation mark lights up but the subject is not focused.



Subjects at different distances




Fast-moving subject



Subject 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 allowed. You can set [Noise Reduct.] to [Off].
 [Noise Reduct.] (P. 92)

The number of AF targets is reduced

The number and size of AF targets varies with group target settings and the option selected for [Digital Tele-converter] and [Image Aspect].

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.  "Setting the date/time" (P. 16)

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. The settings will be cancelled 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

When you rotate the mode dial or turn off the power in a shooting mode other than **P**, **A**, **S**, or **M**, functions with changes made to their settings are restored to the factory default settings.


Image taken appears whitish

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.

 "Interchangeable lenses" (P. 121)


Unknown bright dot(s) appear on the subject in the picture taken

This may be due to stuck pixel(s) on the image pickup device. Perform [Pixel Mapping].











If the problem persists, repeat pixel mapping a few times.  "Pixel Mapping - Checking the image processing functions" (P. 137)










Functions that cannot be selected from menus

Some items may not be selectable from the menus when using the arrow pad.

- Items that cannot be set with the current shooting mode.
- Items that cannot be set because of an item that has already been set:
Combination of  and [Noise Reduct.], etc.

Error codes

Monitor indication	Possible cause	Corrective action
 No Card	The card is not inserted, or it cannot be recognized.	Insert a card or insert a different card.
 Card Error	There is a problem with the card.	Insert the card again. If the problem persists, format the card. If the card cannot be formatted, it cannot be used.
 Write Protect	Writing to the card is prohibited.	The card write-protect switch is set to the "LOCK" side. Release the switch. (P. 119)
 Card Full	<ul style="list-style-type: none"> The card is full. No more pictures can be taken or no more information such as print reservation can be recorded. There is no space in the card and print reservation or new images cannot be recorded. 	Replace the card or erase unwanted pictures. Before erasing, download important images to a PC.
	Card cannot be read. Card may not have been formatted.	<ul style="list-style-type: none"> Select [Clean Card], press  and turn off the camera. Remove the card and wipe dry the metallic surface with a soft, dry cloth. Select [Format] ▶ [Yes], and then press  to format the card. Formatting the card erases all data on the card.
 No Picture	There are no pictures on the card.	The card contains no pictures. Record pictures and play back.
 Picture Error	The selected picture cannot be displayed for playback due to a problem with this picture. Or the picture cannot be used for playback on this camera.	Use image processing software to view the picture on a PC. If that cannot be done, the image file is damaged.
 The Image Cannot Be Edited	Pictures taken with another camera cannot be edited on this camera.	Use image processing software to edit the picture.

Monitor indication	Possible cause	Corrective action
		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, printer, HDMI display, or other device.	Reconnect the camera.
 No Paper	There is no paper in the printer.	Load some paper in the printer.
 No Ink	The printer has run out of ink.	Replace the ink cartridge in the printer.
 Jammed	The paper is jammed.	Remove the jammed paper.
Settings Changed	The printer's paper cassette has been removed or the printer has been manipulated while making settings on the camera.	Do not manipulate the printer while making settings on the camera.
 Print Error	There is a problem with the printer and/or camera.	Turn off camera and printer. Check the printer and remedy any problems before turning the power on again.
 Cannot Print	Pictures recorded on other cameras may not be printed on this camera.	Use a personal computer to print.
The lens is locked. Please extend the lens.	The lens of the retractable lens stays retracted.	Extend the lens. (P. 14)
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.

Cleaning and storing the camera

Cleaning the camera

Turn off the camera and remove the battery before cleaning the camera.

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 with insect repellent.

Cleaning and checking the image pickup device

This camera incorporates a dust reduction function to keep dust from getting on the image pickup device and to remove any dust or dirt from the image pickup device 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 pickup device 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.

Cautions

- Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.
- 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, be sure to take a test shot and check that the camera works properly.

Pixel Mapping - Checking the image processing functions

The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions. After using the monitor or taking continuous shots, wait for at least one minute before using the pixel mapping function to ensure that it operates correctly.

- 1 Select [Pixel Mapping] in  Custom Menu (P. 97) tab .
 - 2 Press , then press .
- The [Busy] bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.

Cautions

- If you accidentally turn the camera off during pixel mapping, start again from Step 1.











Menu directory

*1: Can be added to [Myset].


*2: Default can be restored by selecting [Full] for [Reset].

*3: Default can be restored by selecting [Basic] for [Reset].





Shooting Menu

Tab	Function	Default	*1	*2	*3		
	Card Setup	—				75	
	Reset/Myset	—		✓		76	
	Picture Mode	 Natural	✓	✓	✓	62	
		Still Picture	 N	✓	✓	✓	67
		Movie	MOV FullHD 				
	Image Aspect	4:3	✓	✓	✓	54	
	Digital Tele-converter	Off	✓	✓	✓	84	
				✓	✓	✓	65
Image Stabilizer		Still Picture	S-IS AUTO	✓	✓	✓	60
		Movie	M-IS On				
Bracketing			Off	✓	✓	✓	79
		AE BKT	3f 1.0EV				
		WB BKT	A-B				
			G-M				
		FL BKT	—				80
		ISO BKT	—				80
ART BKT		—	80				
HDR		Off	✓	✓	✓	81	
Multiple Exposure		Frame	Off	✓	✓	✓	82
		Auto Gain	Off				
		Overlay	Off				
Time Lapse Settings			Off	✓	✓	✓	83
		Frame	99				
		Start Waiting Time	00:00:01				
	Interval Time	00:00:01					
	Time Lapse Movie	Off					
 RC Mode	Off	✓	✓	✓	125		

▶ Playback Menu

Tab	Function		Default	*1	*2	*3	☞	
▶	▶	Start	—				59	
		BGM	Joy		✓	✓		
		Slide	All		✓	✓		
		Slide Interval	3 sec		✓			
		Movie Interval	Short		✓			
	▶		On		✓	✓	85	
	Edit	Sel. Image	RAW Data Edit	—				85
			JPEG Edit	—				86
				—				87
		Image Overlay	—				87	
	Print Order	—				116		
	Reset Protect	—				87		
	Connection to Smartphone	—				107		

ƒ Setup Menu

Tab	Function		Default	*1	*2	*3	☞	
ƒ			—				16	
		*	—				88	
			☺ ±0, ☺ ±0, Natural		✓		88	
		Rec View	0.5 sec	✓	✓		88	
	Wi-Fi Settings		Wi-Fi Connect Settings	Private		✓		107
			Private Password	—				
			Reset share Order	—				
			Reset Wi-Fi Settings	—				
		Menu Display	On		✓		88	
		Firmware	—				88	

* Settings differ depending on the region where the camera is purchased.

⚙️ Custom Menu

Tab	Function	Default	*1	*2	*3	👉		
⚙️	AF/MF							
	AF Mode	Still Picture	S-AF				89	
		Movie	C-AF	✓	✓	✓		
	Full-time AF		Off	✓	✓	✓		
	AEL/AFL		S-AF					
			C-AF	mode1	✓	✓		✓
			MF	mode1				
	Reset Lens		On		✓	✓		
	BULB/TIME Focusing		On		✓	✓		
	Focus Ring		⌚	✓	✓	✓		
	MF Assist	Magnify	Off	✓	✓			
		Peaking	Off	✓	✓			
	[•••] Set Home		📄		✓	✓		
	AF Illuminat.		On	✓	✓	✓		
☉ Face Priority		👤	✓	✓	✓			
AF Area Pointer		On		✓	✓			
⚙️	Button/Dial							
	Button Function	[Fn] Function	AEL/AFL				90	
		[Fn2] Function	Multi Function					
		🕒 Function	🕒 REC					
		▶ Function	⚡ *	✓	✓			
		▽ Function	📄/🌙 *					
		☰ Function	[•••]					
	Dial Function	[L-Fn] Function	AF Stop					
		P	Ps/📄					
		A	FNo./📄					
		S	Shutter/📄					
		M	Shutter/FNo.	✓	✓			
		Menu	△ ▽ / < ▷					
			📄 Q / Prev/Next					
Dial Direction		Exposure	Dial1	✓	✓			
		Ps	Dial1					
Mode Dial Function		Off		✓				
⚙️	Release/📄							
	Rls Priority S		Off	✓	✓	✓	90	
	Rls Priority C		On	✓	✓	✓		
	📄 L fps		3.5 fps	✓	✓	✓		
	📄 H fps		8 fps	✓	✓	✓		
	📄 + IS Off		On		✓			
	Half Way Rls With IS		On		✓			
	Lens I.S. Priority		Off	✓	✓	✓		
	Release Lag-Time		Normal		✓			

* When [☰] Function is set to [Direct Function]


Tab	Function	Default	*1	*2	*3	
	Exp//ISO					
	EV Step	1/3EV	✓	✓	✓	92
	Noise Reduct.	Auto	✓	✓	✓	
	Noise Filter	Standard	✓	✓	✓	
	ISO	Auto	✓	✓	✓	
	ISO Step	1/3EV	✓	✓	✓	
	ISO-Auto Set	High Limit: 1600 Default: 200	✓	✓	✓	93
	ISO-Auto	P/A/S	✓	✓		
	Metering		✓	✓	✓	
	AEL Metering	Auto	✓	✓	✓	
	BULB/TIME Timer	8 min	✓	✓	✓	
	BULB/TIME Monitor	-7	✓	✓		
	Live BULB	Off	✓	✓		
	Live TIME	0.5 sec	✓	✓		
Anti-Shock []	Off	✓	✓	✓		
Composite Settings	1 sec	✓	✓			
	Custom					
	X-Sync.	1/250	✓	✓	✓	93
	Slow Limit	1/60	✓	✓	✓	
	+	Off	✓	✓	✓	
	/Color/WB					
	Set	-1 F, -2 N, -3 M, -4 S	✓	✓	✓	94
Pixel	Middle	3200×2400	✓	✓	✓	
Count	Small	1280×960				
Shading Comp.	Off		✓	✓	✓	
WB	Auto	A:0, G:0	✓	✓	✓	
All	All Set	—	✓	✓		
	All Reset	—		✓		
Keep Warm Color	On		✓	✓	✓	
+WB	WB AUTO		✓	✓		
Color Space	sRGB		✓	✓	✓	
	Record/Erase					
Quick Erase	Off		✓	✓	✓	95
RAW+JPEG Erase	RAW+JPEG		✓	✓	✓	
File Name	Reset			✓		
Edit Filename	Off			✓		
Priority Set	No			✓	✓	
dpi Settings	350dpi			✓		
Copyright Settings	Copyright Info.	Off		✓		
	Artist Name	—				
	Copyright Name	—				

Tab	Function	Default	*1	*2	*3		
	Movie						
	Mode	P		✓		96	
	Movie	On	✓	✓	✓		
	Movie Effect	On		✓			
	Wind Noise Reduction	Off		✓			
	Recording Volume	±0		✓			
	Movie+Photo Mode	mode1		✓			
		Built-In EVF					
		Built-in EVF Style	Style 3		✓		96
		Info Settings	Level Gauge, Basic Information		✓		
		Displayed Grid	Off	✓	✓	✓	
		EVF Auto Switch	On		✓		
		EVF Adjust	EVF Auto Luminance	On		✓	
		Half Way Level	On		✓		
		Utility					
Pixel Mapping		—				97	
Exposure Shift			±0	✓	✓		
Warning Level		±0		✓			
Level Adjust		—		✓			
Touch Screen Settings		On		✓			
Eye-Fi		On		✓			
Electronic Zoom Speed	Still Picture	Normal		✓			
	Movie	Normal					

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 pickup device	
Product type	4/3" Live MOS sensor
No. of total pixels	Approx. 17,200,000 pixels
No. of effective pixels	Approx. 16,050,000 pixels
Screen size	17.3 mm(H) × 13.0 mm(V)
Aspect ratio	1.33 (4:3)
Viewfinder	
Type	Electronic viewfinder with eye sensor
No. of pixels	1,440,000 dots
Magnification	100%
Eye point	Approx. 20.0 mm (−1 m ⁻¹)
Live view	
Sensor	Uses Live MOS sensor
Field of view	100%
Monitor	
Product type	3.0" TFT color LCD, Vari-angle, touch screen
Total no. of pixels	Approx. 1,040,000 dots (aspect ratio 3:2)
Shutter	
Product type	Computerized focal-plane shutter
Shutter	1/4000 - 60 sec., bulb photography, time photography
Auto focus	
Product type	Hi-Speed Imager AF
Focusing points	81 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	EV 0 - 20 (Equivalent to M.ZUIKO DIGITAL 17mm f2.8, ISO100)
Shooting modes	i AUTO: iAUTO/ P : Program AE (Program shift can be performed)/ A : Aperture priority AE/ S : Shutter priority AE/ M : Manual/ I : PHOTO STORY/ ART : Art filter/ SCN : Scene/ S : Movie
ISO sensitivity	LOW, 200 - 25600 (1/3, 1 EV step)
Exposure compensation	±5EV (1/3, 1/2, 1 EV step)
White balance	
Product type	Image pickup device
Mode setting	Auto/Preset WB (7 settings)/Customized WB/One-touch WB

Recording	
Memory	SD, SDHC, SDXC and Eye-Fi UHS-I compatible
Recording system	Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), RAW Data, MP format
Applicable standards	Exif 2.3, Digital Print Order Format (DPOF), PRINT Image Matching III, PictBridge
Sound with still pictures	Wave format
Movie	MPEG-4 AVC/H.264 / Motion JPEG
Audio	Stereo, PCM 48kHz
Playback	
Display format	Single-frame playback/Close-up playback/Index display/Calendar display
Drive	
Drive mode	Single-frame shooting/Sequential shooting/Self-timer
Sequential shooting	Up to 8 fps ()
Self-timer	Operation time: 12 sec./2 sec./Customized
Energy saving function	Switch to sleep mode: 1 minute, Power OFF: 4 hours (This function can be customized.)
Flash	
Guide number	5.8 (ISO100·m) (8.2 (ISO200·m))
Firing angle	Covers the angle of view of a 14 mm lens (28 mm in 35 mm format)
Flash control mode	TTL-AUTO (TTL pre-flash mode)/MANUAL
Sync speed	1/250 s or slower
Wireless LAN	
Compatible standard	IEEE 802.11b/g/n
External connector	
Multi-connector (USB connector, AV connector)/HDMI micro-connector (type D)	
Power supply	
Battery	Li-ion Battery ×1
Dimensions/weight	
Dimensions	119.1 mm (W) × 82.3 mm (H) × 45.9 mm (D) (4.7" × 3.2" × 1.8") (excluding protrusions)
Weight	Approx. 396 g (0.9 lb.) (including battery and memory card)
Operating environment	
Temperature	0 °C - 40 °C (32 °F - 104 °F) (operation)/-20 °C - 60 °C (-4 °F - 140 °F) (storage)
Humidity	30% - 90% (operation)/10% - 90% (storage)

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■ Lithium ion battery

MODEL NO.	BLS-5
Product type	Rechargeable Lithium ion battery
Nominal voltage	DC 7.2 V
Nominal capacity	1150 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. 44 g (0.1 lb.)

■ Lithium ion charger

MODEL NO.	BCS-5
Rated input	AC 100V - 240V (50/60Hz)
Rated output	DC 8.35V, 400mA
Charging time	Approx. 3 hours 30 minutes (room temperature)
Ambient temperature	0 °C - 40 °C (11 °F - 104 °F) (operation)/ -20 °C - 60 °C (-4 °F - 140 °F) (storage)
Dimensions	Approx. 62 mm(W) × 38 mm(H) × 83 mm(D) (2.4" × 1.5" × 3.3")
Weight (without AC cable)	Approx. 70 g (0.15 lb.)

- The AC cable supplied with this device is for use only with this device and should not be used with other devices. Do not use cables for other devices with this device.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE OR OBLIGATION ON THE PART OF THE MANUFACTURER.

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 OLYMPUS SERVICE PERSONNEL.



An exclamation mark enclosed in a triangle alerts you to important operating and maintenance instructions in the documentation provided with the product.

**DANGER**

If the product is used without observing the information given under this symbol, serious injury or death may result.

**WARNING**

If the product is used without observing the information given under this symbol, injury or death may result.

**CAUTION**

If the product is used without observing the information given under this symbol, minor personal injury, damage to the equipment, or loss of valuable data 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.

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.

Attachments — For your safety, and to avoid damaging the product, use only accessories recommended by Olympus.

Water and Moisture — For precautions on products with weatherproof designs, read the weatherproofing sections.

Location — To avoid damage to the product, mount the product securely on a stable tripod, stand, or bracket.

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.

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.

Product Handling Precautions

WARNING

- Do not use the camera near flammable or explosive gases.
- Do not use the flash and LED 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.

- **Keep young children, infants, and animals such as pets 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.
- **Do not look at the sun or strong lights with the camera.**
- **Do not use or store the camera in dusty or humid places.**
- **Do not cover the flash with a hand while firing.**

CAUTION

- **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.**
- **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.

- **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.
- **Be careful with the strap.**
Be careful with the strap when you carry the camera. It could easily catch on stray objects - and cause serious damage.

Battery Handling Precautions

Follow these important guidelines to prevent batteries from leaking, overheating, burning, exploding, or causing electrical shocks or burns.

DANGER

- The camera uses a lithium ion battery specified by Olympus. Charge the battery with the specified charger. Do not use any other chargers.
- Never heat or incinerate batteries.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, etc.
- 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.
- 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, by soldering, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- Always store batteries out of the reach of small children. If a child accidentally swallows a battery, seek medical attention immediately.

WARNING

- Keep batteries dry at all times.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Insert the battery carefully as described in the operating instructions.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use a battery if it is cracked or broken.
- If a battery leaks, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera.
- 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 subject batteries to strong shocks or continuous vibration.

CAUTION

- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- Always unload the battery from the camera before storing the camera for a long period.
- This camera uses a lithium ion battery specified by Olympus. Do not use any other type of battery. For safe and proper use, read the battery's instruction manual carefully before using it.
- 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.
- The number of pictures you can take may vary depending on the shooting conditions or battery.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.
- When the camera will not be used for an extended period, store it in a cool place.
- 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.

Precautions for Charger

DANGER

- **Do not allow the charger to get wet, and do not touch the charger when you are wet, or when you have wet hands.**
Doing so may damage the charger or result in an electric shock.
- **Do not use the charger when it is covered by a cloth etc.**
The resulting build-up of heat may cause the case to deform, result in overheating, or start a fire.
- **Do not attempt to disassemble or modify the charger.**
Doing so may cause electric shock or other injury.

- **Be sure to use the charger at the specified voltage.**

Using the charger with a power source not of the specified voltage may start a fire, damage property, generate heat or smoke, or result in electric shock or burns.

- **Should you notice that the charger is emitting smoke, heat, or an unusual noise or smell, immediately cease use and unplug the charger from the power outlet, and then contact an authorized distributor or service center.**

WARNING

- **Always hold the plug when removing the plug from the power outlet.**

Not holding the plug could result in fire or electric shock.

CAUTION

- **When cleaning the charger, always unplug the charger from the power outlet.**

Cleaning the charger without unplugging it could result in an electric shock or other injury.

Precautions when using the wireless LAN function

WARNING

- **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.

- **Turn off the camera when onboard aircraft.**

Using wireless devices onboard may hinder safe operation of the aircraft.

Caution for Usage Environment

- 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. When using products with weatherproof designs, read their manuals as well.
 - In places prone to strong vibrations.

- Never drop the camera or subject it to severe shocks or vibrations.
- When mounted on a tripod, adjust the position of the camera with the tripod head. Do not twist the camera.
- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image pickup device, or may possibly cause fires.
- Do not touch electric contacts on cameras and interchangeable lenses. Remember to attach the body cap when removing the lens.
- Before storing the camera for a long period, remove the battery. 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 release 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.
- Do not directly touch or wipe the image pickup device of the camera.
- Do not expose the internal part of the camera to direct sunlight via the eyepiece lens. This can degrade or damage the electronic viewfinder.
- 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. An monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The monitor is made with high-precision technology. However, black spots or bright spots of light may appear constantly on the monitor. Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.

Lens

- Do not immerse in water or splash with water.
- Do not drop or exert strong force on the lens.
- Do not hold at the moving part of the lens.
- Do not touch the lens surface directly.
- Do not touch the contact points directly.
- Do not subject to abrupt temperature changes.

Legal and Other Notices

- Olympus 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.
- Olympus makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.

Disclaimer of Warranty

- Olympus makes no representations or warranties, either expressed or implied, by or concerning any content of these written materials or software, and in no event shall be liable for any implied warranty of merchantability or fitness for any particular purpose or for any consequential, incidental or indirect damages (including but not limited to damages for loss of business profits, business interruption and loss of business information) arising from the use or inability to use these written materials or software or equipment. Some countries do not allow the exclusion or limitation of liability for consequential or incidental damages, so the above limitations may not apply to you.
- Olympus reserves all rights to this manual.

Monitor

The display on the rear of the camera is an LCD monitor.

- In the unlikely event that the monitor breaks, do not put the liquid crystal in your mouth. Any of the material adhering to your hands, feet, or clothing should be rinsed off immediately.
- 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.

Warning

Unauthorized photographing or use of copyrighted material may violate applicable copyright laws. Olympus assumes no responsibility for unauthorized photographing, use or other acts that infringe upon the rights of copyright owners.

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FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Only the OLYMPUS-supplied USB cable should be used to connect the camera to USB enabled personal computers.

FCC Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

Use Only Dedicated Rechargeable Battery and Battery Charger

We strongly recommend that you use only the genuine Olympus dedicated rechargeable battery and battery charger with this camera.

Using a non-genuine rechargeable battery and/or battery charger may result in fire or personal injury due to leakage, heating, ignition or damage to the battery. Olympus does not assume any liability for accidents or damage that may result from the use of a battery and/or battery charger that are not genuine Olympus accessories.

For customers in North and South America

For customers in USA

Declaration of Conformity

Model Number : E-M10

Trade Name : OLYMPUS

Responsible Party : **OLYMPUS IMAGING AMERICA INC.**

Address : 3500 Corporate Parkway, P. O. Box 610, Center Valley, PA 18034-0610, USA

Telephone Number : 484-896-5000

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003. CAN ICES-3(B)

OLYMPUS WORLDWIDE LIMITED WARRANTY - IMAGING PRODUCTS

Olympus warrants that the enclosed Olympus® imaging product(s) and related Olympus® accessories (individually a "Product" and collectively the "Products") will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of purchase.

If any Product proves to be defective within the one-year warranty period, the customer must return the defective Product to any of Olympus Service Centers, following the procedure set forth below (See "WHAT TO DO WHEN SERVICE IS NEEDED").

Olympus, at its sole discretion, will repair, replace, or adjust the defective Product, provided that Olympus investigation and factory inspection disclose that (a) such defect developed under normal and proper use and (b) the Product is covered under this limited warranty.

Repair, replacement, or adjustment of defective Products shall be Olympus's sole obligation and the customer's sole remedy hereunder.

The customer is liable and shall pay for shipment of the Products to the Olympus Service Center.

Olympus shall not be obligated to perform preventive maintenance, installation, deinstallation, or maintenance.

Olympus reserves the right to (i) use reconditioned, refurbished, and/or serviceable used parts (that meet Olympus's quality assurance standards) for warranty or any other repairs and (ii) make any internal or external design and/or feature changes on or to its products without any liability to incorporate such changes on or to the Products.

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY

Excluded from this limited warranty and not warranted by Olympus in any fashion, either express, implied, or by statute, are:

- (a) products and accessories not manufactured by Olympus and/or not bearing the "OLYMPUS" brand label (the warranty coverage for products and accessories of other manufacturers, which may be distributed by Olympus, is the responsibility of the manufacturers of such products and accessories in accordance with the terms and duration of such manufacturers' warranties);
- (b) any Product which has been disassembled, repaired, tampered with, altered, changed, or modified by persons other than Olympus's own authorized service personnel unless repair by others is made with the written consent of Olympus;
- (c) defects or damage to the Products resulting from wear, tear, misuse, abuse, negligence, sand, liquids, impact, improper storage, nonperformance of scheduled operator and maintenance items, battery leakage, use of non-"OLYMPUS" brand accessories, consumables, or supplies, or use of the Products in combination with non-compatible devices;
- (d) software programs;
- (e) supplies and consumables (including but not limited to lamps, ink, paper, film, prints, negatives, cables and batteries); and/or
- (f) Products which do not contain a validly placed and recorded Olympus serial number, unless they are a model on which Olympus does not place and record serial numbers.

EXCEPT FOR THE LIMITED WARRANTY SET FORTH ABOVE, OLYMPUS MAKES NO AND DISCLAIMS ALL OTHER REPRESENTATIONS, GUARANTIES, CONDITIONS, AND WARRANTIES CONCERNING THE PRODUCTS, WHETHER DIRECT OR INDIRECT, EXPRESS OR IMPLIED, OR ARISING UNDER ANY STATUTE, ORDINANCE, COMMERCIAL USAGE OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OR REPRESENTATION AS TO THE SUITABILITY, DURABILITY, DESIGN, OPERATION, OR CONDITION OF THE PRODUCTS (OR ANY PART THEREOF) OR THE MERCHANTABILITY OF THE PRODUCTS OR THEIR FITNESS FOR A PARTICULAR PURPOSE, OR RELATING TO THE INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHT USED OR INCLUDED THEREIN.

IF ANY IMPLIED WARRANTIES APPLY AS A MATTER OF LAW, THEY ARE LIMITED IN DURATION TO THE LENGTH OF THIS LIMITED WARRANTY.

SOME STATES MAY NOT RECOGNIZE A DISCLAIMER OR LIMITATION OF WARRANTIES AND/OR LIMITATION OF LIABILITY SO THE ABOVE DISCLAIMERS AND EXCLUSIONS MAY NOT APPLY.

THE CUSTOMER MAY ALSO HAVE DIFFERENT AND/OR ADDITIONAL RIGHTS AND REMEDIES THAT VARY FROM STATE TO STATE.

THE CUSTOMER ACKNOWLEDGES AND AGREES THAT OLYMPUS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES THAT THE CUSTOMER MAY INCUR FROM DELAYED SHIPMENT, PRODUCT FAILURE, PRODUCT DESIGN, SELECTION, OR PRODUCTION, IMAGE OR DATA LOSS OR IMPAIRMENT OR FROM ANY OTHER CAUSE, WHETHER LIABILITY IS ASSERTED IN CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT PRODUCT LIABILITY) OR OTHERWISE. IN NO EVENT SHALL OLYMPUS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND (INCLUDING WITHOUT LIMITATION LOSS OF PROFITS OR LOSS OF USE), WHETHER OR NOT OLYMPUS SHALL BE OR SHOULD BE AWARE OF THE POSSIBILITY OF SUCH POTENTIAL LOSS OR DAMAGE.

Representations and warranties made by any person, including but not limited to dealers, representatives, salespersons, or agents of Olympus, which are inconsistent or in conflict with or in addition to the terms of this limited warranty, shall not be binding upon Olympus unless reduced to writing and approved by an expressly authorized officer of Olympus.

This limited warranty is the complete and exclusive statement of warranty which Olympus agrees to provide with respect to the Products and it shall supersede all prior and contemporaneous oral or written agreements, understandings, proposals, and communications pertaining to the subject matter hereof.

This limited warranty is exclusively for the benefit of the original customer and cannot be transferred or assigned.

WHAT TO DO WHEN SERVICE IS NEEDED

The customer must transfer any image or other data saved on a Product to another image or data storage medium and/or remove any film from the Product prior to sending the Product to Olympus for service.

IN NO EVENT SHALL OLYMPUS BE RESPONSIBLE FOR SAVING, KEEPING OR MAINTAINING ANY IMAGE OR DATA SAVED ON A PRODUCT RECEIVED BY IT FOR SERVICE, OR ON ANY FILM CONTAINED WITHIN A PRODUCT RECEIVED BY IT FOR SERVICE, NOR SHALL OLYMPUS BE RESPONSIBLE FOR ANY DAMAGES IN THE EVENT ANY IMAGE OR DATA IS LOST OR IMPAIRED WHILE SERVICE IS BEING PERFORMED (INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, LOSS OF PROFITS OR LOSS OF USE), WHETHER OR NOT OLYMPUS SHALL BE OR SHOULD BE AWARE OF THE POSSIBILITY OF SUCH POTENTIAL LOSS OR IMPAIRMENT.

Package the Product carefully using ample padding material to prevent damage in transit and either deliver it to the Authorized Olympus Dealer that sold you the Product or ship it postage prepaid and insured to any of our Olympus Service Centers.

When returning Products for service, your package should include the following:

- 1 Sales receipt showing date and place of purchase.
- 2 Copy of this limited warranty **bearing the Product serial number corresponding to the serial number on the Product** (unless it is a model on which Olympus does not place and record serial numbers).
- 3 A detailed description of the problem.

- 4 Sample prints, negatives, digital prints (or files on disk) if available and related to the problem.

When service is completed, the Product will be returned to you postage prepaid.

WHERE TO SEND PRODUCT FOR SERVICE

See "WORLDWIDE WARRANTY" for the nearest service center.

INTERNATIONAL WARRANTY SERVICE

International warranty service is available under this warranty.

For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe. Hereby, Olympus Imaging Corp. and Olympus Europa SE & Co. KG declare that this E-M10 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For details visit: <http://www.olympus-europa.com/>



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse.

Please use the return and collection systems available in your country for the disposal of this product.



This symbol [crossed-out wheeled bin Directive 2006/66/EC Annex II] indicates separate collection of waste batteries in the EU countries.

Please do not throw the batteries into the domestic refuse.

Please use the return and collection systems available in your country for the disposal of the waste batteries.

Provisions of warranty

- 1 If this product proves to be defective, although it has been used properly (in accordance with the written Handling Care and Operating instructions supplied with it), during the applicable national warranty period and has been purchased from an authorized Olympus distributor within the business area of Olympus Europa SE & Co. KG as stipulated on the website: <http://www.olympus.com> this product will be repaired, or at Olympus's option replaced, free of charge. To claim under this warranty the customer must take the product before the end of the applicable national warranty period to the dealer where the product was purchased or any other Olympus service station within the business area of Olympus Europa SE & Co. KG as stipulated on the website: <http://www.olympus.com>. During the one year period of the World Wide Guarantee the customer may turn the product in at any Olympus service station. Please notice that not in all countries such Olympus service station exists.
- 2 The customer shall transport the product to the dealer or Olympus authorized service station at his own risk and shall be responsible for any costs incurred in transporting the product.

Provisions of Guarantee

- 1 "OLYMPUS IMAGING CORP." grants a one year World Wide Guarantee. This worldwide Guarantee must be presented at an Olympus authorized repair service station before any repair can be made under conditions of this Guarantee. This Guarantee is valid only if the Guarantee Certificate and proof of purchase are presented at the Olympus repair service station. Please note that this Guarantee is in addition to and does not affect the customer's legal warranty rights under the applicable national legislation governing the sale of consumer goods mentioned above.
- 2 This Guarantee does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the Guarantee period referred to above.
 - (a) Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Handling Care or other sections of the instructions, etc.)
 - (b) Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.

- (c) Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
 - (d) Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.
 - (e) Any defect that occurs due to careless or improper storage (such as keeping the product under conditions of high temperature and humidity, near insect repellents such as naphthalene or harmful drugs, etc.), improper maintenance, etc.
 - (f) Any defect that occurs due to exhausted batteries, etc.
 - (g) Any defect that occurs due to sand, mud, etc. entering the inside of the product casing.
 - (h) When the Guarantee Certificate is not returned with the product.
 - (i) When any alterations whatsoever are made to the Guarantee Certificate regarding the year, month and date of purchase, the customer's name, the dealer's name, and the serial number.
 - (j) When proof of purchase is not presented with this Guarantee Certificate.
- 3 This Guarantee applies to the product only; the Guarantee does not apply to any other accessory equipment, such as the case, strap, lens cap and batteries.
- 4 Olympus's sole liability under this Guarantee shall be limited to repairing or replacing the product. Any liability under the Guarantee for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect of the product, and in particular any loss or damage caused to any lenses, films, other equipment or accessories used with the product or for any loss resulting from a delay in repair or loss of data, is excluded. Compelling regulations by law remain unaffected by this.

Notes regarding Guarantee maintenance

- 1 This Guarantee will only be valid if the Guarantee Certificate is duly completed by Olympus or an authorized dealer or other documents contain sufficient proof. Therefore, please make sure that your name, the name of the dealer, the serial number and the year, month and date of purchase are all completed or the original invoice or the sales receipt (indicating the dealer's name, the date of purchase and product type) is attached to this Guarantee Certificate. Olympus reserves the right to refuse free-of-charge service if neither Guarantee Certificate is completed nor the above document is attached or if the information contained in it is incomplete or illegible.
- 2 Since this Guarantee Certificate will not be re-issued, keep it in a safe place.
 - Please refer to the list on the web site: <http://www.olympus.com> for the authorized international Olympus service network.

For customers in Thailand

This telecommunication equipment conforms to NTC technical requirement.

For customers in Mexico

The operation of this equipment is subject to the following two conditions:

- (1) it is possible that this equipment or device may not cause harmful interference, and (2) this equipment or device must accept any interference, including interference that may cause undesired operation.

For customer in Singapore

Complies with IDA Standards DB104634
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- Microsoft and Windows are registered trademarks of Microsoft Corporation.
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- SDXC Logo is a trademark of SD-3C, LLC.
- Eye-Fi is a trademark of Eye-Fi, Inc.
- "Shadow Adjustment Technology" function contains patented technologies from Apical Limited.
- Micro Four Thirds, Four Thirds, and the Micro Four Thirds and Four Thirds logos are trademarks or registered trademarks of the OLYMPUS IMAGING Corporation in Japan, the United States, the countries of the European Union, and other countries.
- Wi-Fi is a registered trademark of the Wi-Fi Alliance.
- The Wi-Fi CERTIFIED logo is a certification mark of the Wi-Fi Alliance.
- The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).
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Those terms and other third party software notices, if any, may be found in the software notice PDF file stored within the accompanying CD-ROM or at

<http://www.olympus.co.jp/en/support/imsig/digicamera/download/notice/notice.cfm>

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Technical Support (U.S.A. / Canada)

24/7 online automated help:
<http://www.olympusamerica.com/support>
Phone customer support:
Tel. 1-800-260-1625 (Toll-free)

Our phone customer support is available from
9 am to 9 pm (Monday to Friday) ET
<http://olympusamerica.com/contactus>
Olympus software updates can be obtained at:
<http://www.olympusamerica.com/digital>

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Germany

European Technical Customer Support:

Please visit our homepage <http://www.olympus-europa.com> or call our TOLL FREE NUMBER* :
00800 - 67 10 83 00

for Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Luxembourg,
Netherlands, Norway, Poland, Portugal, Russia, Spain, Sweden, Switzerland, United Kingdom.

* Please note some (mobile) phone services / provider do not permit access or request an
additional prefix to +800 numbers.

For all not listed European Countries and in case that you can't get connected to the above mentioned number,
please make use of the following CHARGED NUMBERS **+49 40 - 237 73 899**

OLYMPUS (CHINA) CO., LTD.

Customer Support: 400-650-0303 Homepage: <http://www.olympus-imaging.cn>

Customer Service Center:

A8F, Ping An International Financial Center, No. 1-3,
Xinyuan South Road, Chaoyang District, Beijing
Zip: 100027

Rm.1605-1608, Guangzhou International Electronic tower,
No403, Huan Shi East Road, Guang Zhou
Zip: 510095

A,32F Shanghai Industrial Investment Building 18
Cao Xi Road(N), Xuhui District, Shanghai
Zip: 200030

OLYMPUS HONG KONG AND CHINA LIMITED

Digital Camera Repair Centre

L4207, Office Tower, Langham Place, 8 Argyle Street, Mongkok, Kowloon, Hong Kong

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<http://www.olympus.com.hk>