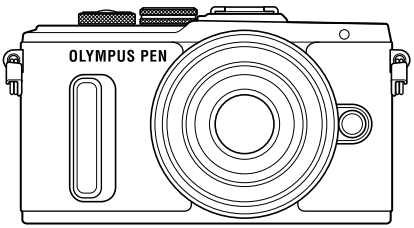
OLYMPUS

DIGITAL CAMERA

OLYMPUS PEN
E-PL8

Instruction Manual



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Model No.: IM001

- 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.
- 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.

■ **This notice concerns the supplied flash unit and is chiefly directed to users in North America.**

Information for Your Safety

IMPORTANT SAFETY INSTRUCTIONS

When using your photographic equipment, basic safety precautions should always be followed, including the following:

- Read and understand all instructions before using.
- Close supervision is necessary when any flash is used by or near children. Do not leave flash unattended while in use.
- Care must be taken as burns can occur from touching hot parts.
- Do not operate if the flash has been dropped or damaged - until it has been examined by qualified service personnel.
- Let flash cool completely before putting away.
- To reduce the risk of electric shock, do not immerse this flash in water or other liquids.
- To reduce the risk of electric shock, do not disassemble this flash, but take it to qualified service personnel when service or repair work is required. Incorrect reassembly can cause electric shock when the flash is used subsequently.
- The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.

SAVE THESE INSTRUCTIONS

Indications used in this manual

The following symbols are used throughout this manual.

Tips	Useful information and hints that will help you get the most out of your camera.
☞	Reference pages describing details or related information.

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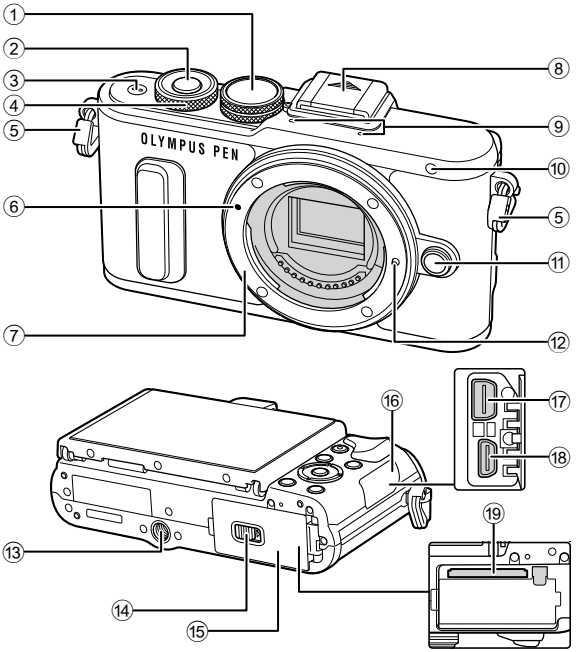
Names of parts



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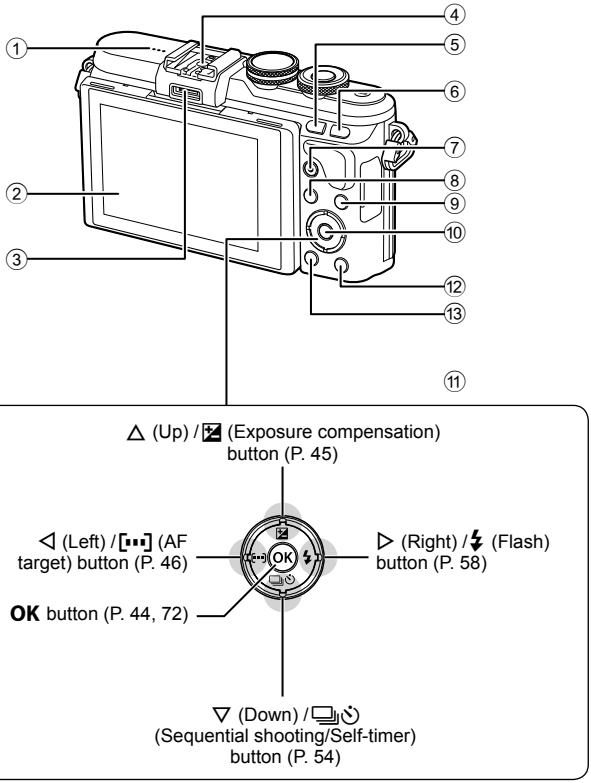
* In this manual, the ☏ icon represent operations performed using the control dial.



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* In this manual, the △▽◁▷ icons represent operations performed using the arrow pad.

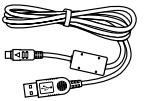
Unpack the box contents

The following items are included with the camera.
If anything is missing or damaged, contact the dealer from whom you purchased the camera.

Camera

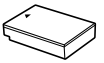
Body cap

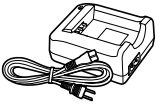
Strap


USB cable
CB-USB6

CD-ROM (Instruction manual/
Computer software)

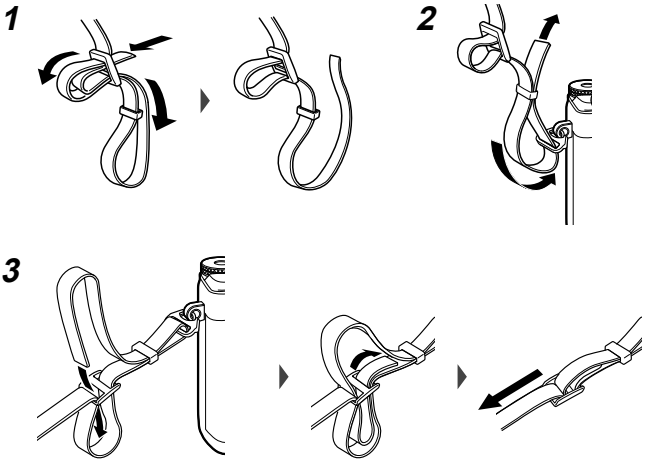
Flash
FL-LM1


Lithium ion battery
BLS-50


Lithium ion charger
BCS-5

- Flash case
- Instruction manual (this manual)
- Warranty card

Attaching the strap



- Attach the strap on the other side in the same way.
- Lastly, pull the strap firmly, making sure that it is fastened securely.

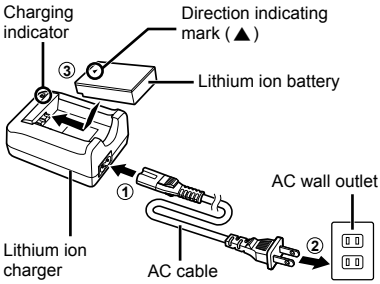
Charging and inserting the battery

1 Charging the battery.

Charging indicator

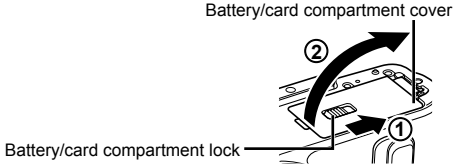
Charging in progress	Lights orange
Charging complete	Off
Charging error	Blinks orange

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

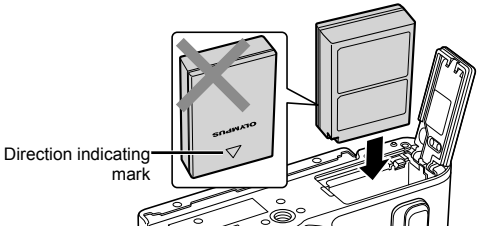


- Unplug the charger when charging is complete.

2 Opening the battery/card compartment cover.

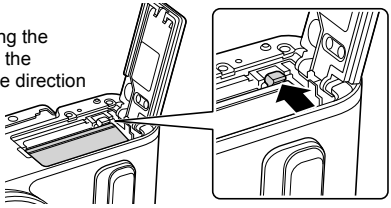


3 Loading the battery.



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.



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

- It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.
- Also read “Battery and charger” (P. 123).

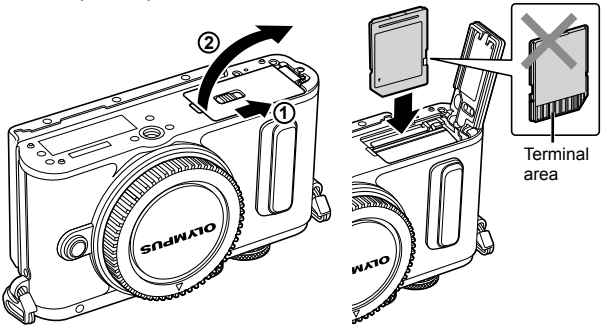
Inserting the card

The following types of SD memory card (commercially available) can be used with this camera: SD, SDHC, SDXC, and Eye-Fi.

Eye-Fi Cards
Read “Usable cards” (P. 124) before use.

1 Open the battery/card compartment cover.

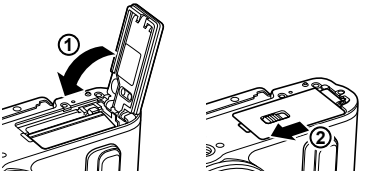
2 Slide the card in until it is locked into place.
☞ “Usable cards” (P. 124)



- Turn off the camera before loading or removing the battery or card.
- Do not forcibly insert a damaged or deformed card. Doing so may damage the card slot.

3 Closing the battery/card compartment cover.

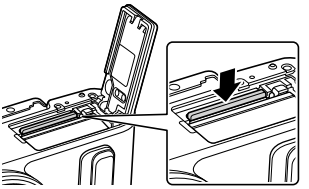
- Be sure the battery/card compartment cover is closed before using the camera.



■ Removing the card

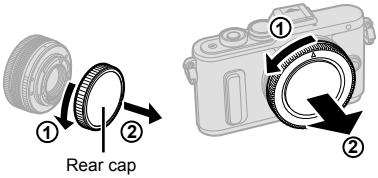
Press the inserted card lightly and it will be ejected. Pull out the card.

- Do not remove the battery or card while the card write indicator (P. 18) is displayed.



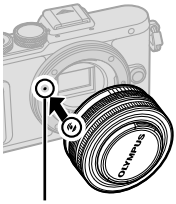
Attaching a lens to the camera

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



Rear cap

2 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.

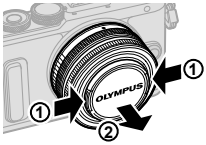


Lens attachment mark

3 Rotate the lens clockwise until you hear it click (direction indicated by arrow ③).

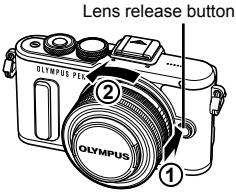
- Make sure the camera is turned off when attaching or removing the lens.
- Do not press the lens release button.
- Do not touch internal portions of the camera.

■ Removing the lens cap



■ Removing the lens from the camera

Make sure the camera is turned off when removing the lens. While pressing the lens release button, rotate the lens in the direction of the arrow.



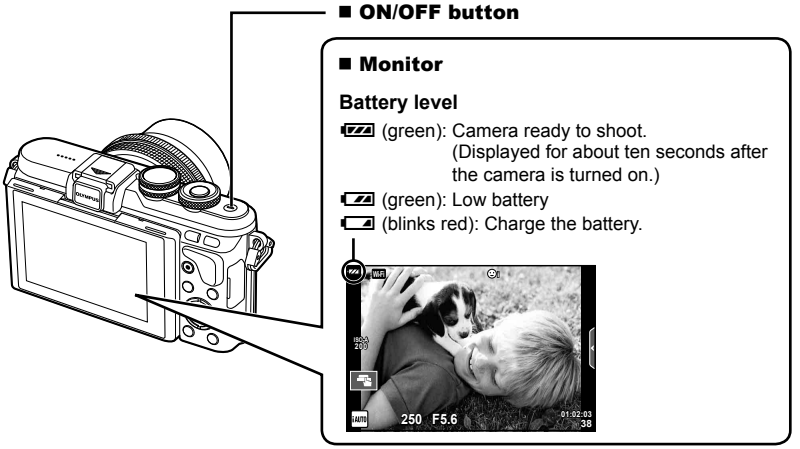
Interchangeable lenses

Read "Interchangeable lenses" (P. 126).

Power on

1 Press the **ON/OFF** button to turn on the camera.

- When the camera is turned on, the monitor will turn on.
- To turn off the camera, press the **ON/OFF** button again.



Camera sleep operation

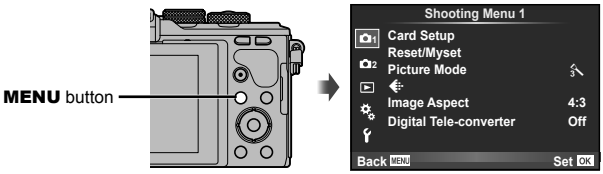
If no operations are performed for a minute, the camera enters “sleep” (stand-by) mode to turn off the monitor and to cancel all actions. The camera activates again when you touch any button (the shutter button, ▶ button, etc.). The camera will turn off automatically if left in sleep mode for 5 minutes. 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. Some functions cannot be used if the date and time have not been set.

1 Display the menus.

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

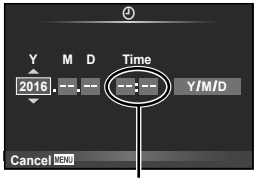


2 Select [⏲] in the [🔧] (setup) tab.

- Use △▽ on the arrow pad to select [🔧] and press ▷.
- Select [⏲] and press ▷.

3 Set the date and time.

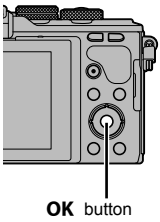
- Use ◁▷ to select items.
- Use △▽ to change the selected item.
- Use △▽ to select the date format.



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.

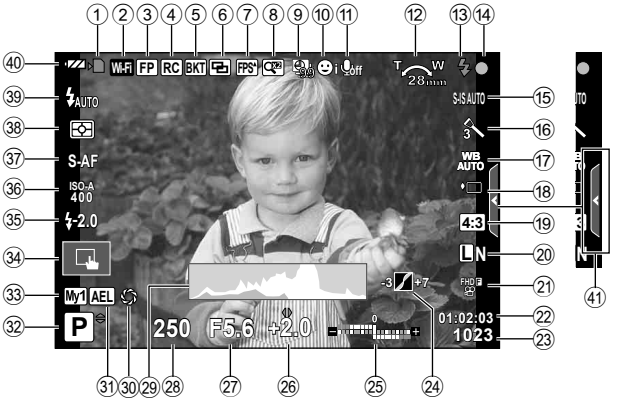


- If the battery is removed from the camera and the camera is left for a while, the date and time may reset to the factory default setting.
- You can synchronize the time correctly by pressing **OK** at a time signal of 0 seconds while setting [min].

Information displays while shooting

Monitor display when shooting

Monitor display when shooting still pictures



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④ RC mode.....P. 127
⑤ Auto bracket/HDR.....P. 78/P. 80
⑥ Multiple exposure.....P. 81
⑦ High frame rate.....P. 90
⑧ Digital Tele-converter.....P. 76
⑨ Time lapse shooting.....P. 82
⑩ Face priority/Eye priority.....P. 47
⑪ Movie sound.....P. 62
⑫ Zoom operation direction/
Focal length/Internal temperature warning °C/°F.....P. 137
⑬ Flash.....P. 58
(blinks: charging in progress,
lights up: charging completed)
⑭ AF confirmation mark.....P. 21
⑮ Image stabilizer.....P. 53
⑯ Art filter.....P. 26
Scene mode.....P. 24
Picture mode.....P. 61
⑰ White balance.....P. 52
⑱ Sequential shooting/Self-timer/
Anti-Shock.....P. 54/P. 92
⑲ Aspect ratio.....P. 56
⑳ Record mode (still images).....P. 56
㉑ Record mode (movies).....P. 57
㉒ Available recording time
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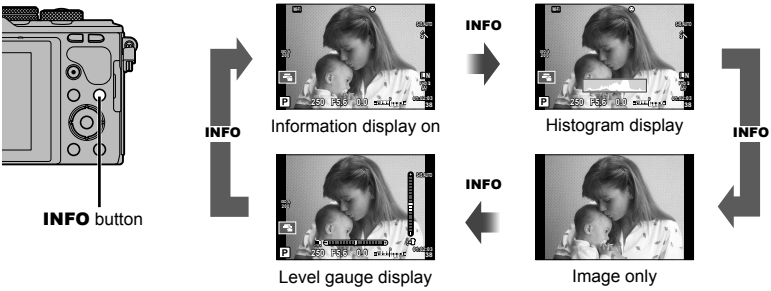
㉔ Highlight & Shadow Control.....P. 50
㉕ Top: Flash intensity control .....P. 60
Bottom: Exposure compensation indicator.....P. 45
㉖ Exposure compensation value.....P. 45
㉗ Aperture value.....P. 30–33
㉘ Shutter speed.....P. 30–33
㉙ Histogram.....P. 19
㉚ Preview.....P.98
㉛ AE Lock.....P. 97
㉜ Shooting mode.....P. 20–37
㉝ Myset.....P. 74
㉞ Shooting using touch screen operations.....P. 35
㉟ Flash compensation value.....P. 60
㊱ ISO sensitivity.....P. 51
㊲ AF mode.....P. 49
㊳ Metering mode.....P. 50
㊴ Flash mode.....P. 58
㊵ Battery check
㊶ Live guide recall.....P.22

Monitor display during movie mode

㊷ Shooting mode.....P. 62
㊸ Movie effect .....P. 37
㊹ Clips icon .....P. 39, 42

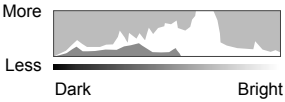
Switching the information display

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



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.

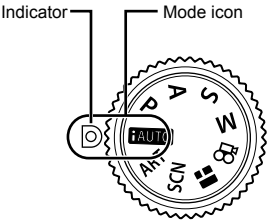


Level gauge display

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.

Shooting still pictures

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

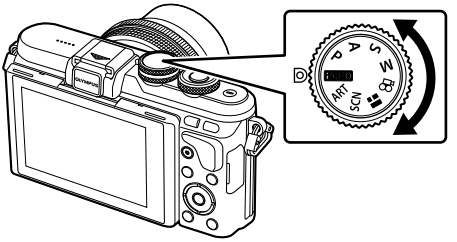


■ Types of shooting modes

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

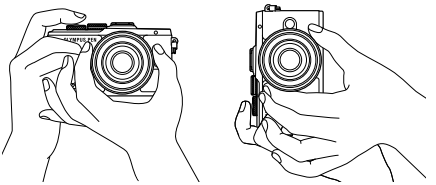
AUTO .....P. 22
SCN .....P. 24
ART .....P. 26
.....P. 28
P.....P. 30
A .....P. 31
S.....P. 32
M.....P. 33
.....P. 36

1 Rotate the mode dial to choose a mode.



2 Set up the camera and decide on the composition.

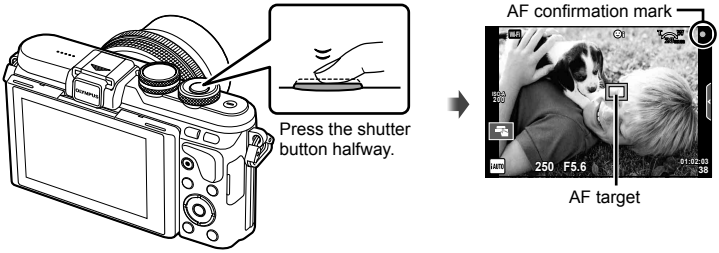
- Be careful that your fingers or the camera strap do not obstruct the lens or AF illuminator.



Landscape position　　Portrait position

3 Adjust the focus.

- Display the subject in the center of the monitor, and lightly press the shutter button down to the first position (press the shutter button halfway).
  The AF confirmation mark (●) will be displayed, and a green frame (AF target) will be displayed in the focus location.



- If the AF confirmation mark blinks, the subject is not in focus. (P. 134)

4 Release the shutter.

- Press the shutter button all the way (fully).
- The shutter sounds and the picture is taken.
- The shot image will be displayed on the monitor.

- You can focus and take pictures using touch controls. ☞ "Shooting with touch screen operations" (P. 35)

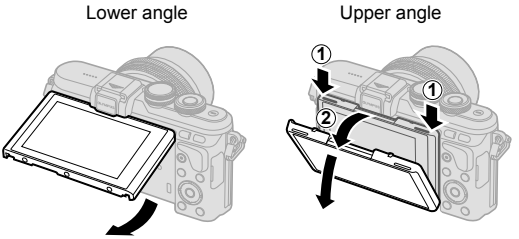
Pressing the shutter button halfway and all the way down

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 button all (or the rest of) the way down."

Taking high angle and low angle shots

You can change the orientation and angle of the monitor.

① Press the monitor down.
② Adjust the angle of the monitor.



- Rotate the monitor gently within the limits shown. Do not use force; failure to observe this precaution could damage the connectors.

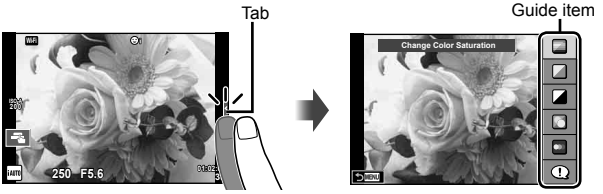
Letting the camera choose the settings (iAUTO)

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

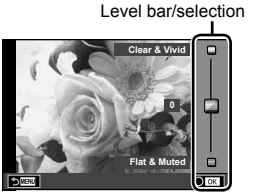
1 Set the mode dial to iAUTO.

2 Shoot.

3 To change the shooting settings, touch the tab to display the live guides.
- Touch a guide item to display the slider of the level bar.



4 Use your finger to position the sliders.
- Tap OK to enter the setting.
- To cancel the live guide setting, tap MENU on the screen.
- When [Shooting Tips] is selected, select an item and touch OK to display 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.



5 To set multiple live guides, repeat Steps 3 and 4.

- A check is displayed on the guide item for live guides that are already set.

6 Shoot.

- To clear the live guide from the display, press the **MENU** button.

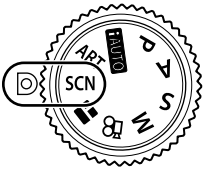
- [Blur Background] and [Express Motions] cannot be set at the same time.
- If [RAW] is currently selected for image quality, image quality will automatically be set to [LN+RAW].
- Live guide settings are not applied to the RAW copy.
- Pictures may appear grainy at some live guide setting levels.
- Changes 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.
- Choosing live guide settings that exceed the limits of the camera exposure meters may result in pictures that are over or underexposed.
- Pressing the **Fn** button displays the live guides in the default settings. To display live guides in the **P**/**A**/**S**/**M** modes (P. 30-33), also press the **Fn** button.
  Once the settings adjusted using live guides have been entered, the **Fn** button cannot be used to redisplay the live guides. Touch the tab to display the live guides.

Shooting in scene mode (SCN)

Select a scene according to the subject.

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

- A menu of scene menu will be displayed. Select a scene using the arrow pad (△ ▽). You can also select scenes using touch screen operations.
- On the scene menu screen, press ▷ to display details of the scene mode on the camera monitor.
- Press **OK** or press the shutter button halfway to select the highlighted item and exit the scene menu.



■ Types of scene modes

- Portrait
- e-Portrait
- Landscape
- Landscape+Portrait
- Sport
- Hand-Held Starlight
- Night Scene
- Night+Portrait
- Children
- High Key
- Low Key
- DIS Mode
- Macro
- Nature Macro
- Candle
- Sunset
- Documents
- Panorama (P. 25)
- Fireworks
- Beach & Snow
- Fisheye Effect
- Wide-Angle
- Macro
- 3D Photo
- Panning

2 Shoot.

- To choose a different setting, press **OK** to display the scene menu.

- 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 1824 × 1024.
  RAW photography is not available.
  Frame coverage is not 100%.
- In [Panning], camera movement is detected and the optimal shutter speed is controlled when moving the camera to track a moving subject. It is convenient for shooting moving subjects as if the background is flowing.
  In [Panning], is displayed during panning detection, and is displayed when nothing is detected.
  When using a lens with an image stabilizer switch in [Panning], turn the image stabilizer switch off.
  Sufficient panning effects may not be obtained in bright conditions. Use a commercially available ND filter to obtain effects more easily.

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. 116)

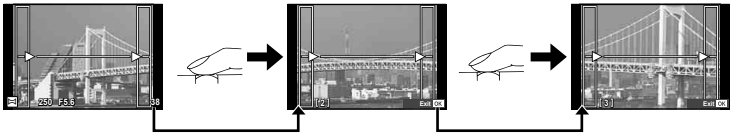
1 Select [Panorama] in **SCN** and press **OK**.

2 Use △▽◁▷ to choose a pan direction.

3 Take a picture, using the guides to frame the shot.

- Focus, exposure, and other settings are fixed at the values for the first shot.

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



- A panorama may include up to 10 images. A warning indicator ( ) is displayed after the tenth shot.

5 After taking the last shot, press **OK** to end the series.

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

Using art filters (ART)

Using art filters, you can easily have fun with artistic effects.

■ Types of art filters

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

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

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

- A menu of art filters will be displayed. Select a filter using the control dial (◎) or ◁▷. You can also select filters using touch screen operations.
- Use △▽ to choose an effect. The effects available vary with the selected filter (soft focus, pin-hole, frames, white edges, starlight, filter, tone, blur, or shade effect).
- Press **OK** or press the shutter button halfway to select the highlighted item and exit the art filter menu.

2 Shoot.

- To choose a different setting, press **OK** or tap the ART icon to display the art filter menu.

ART icon

- 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 [LN+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.

Setting and taking partial color images

You can create images that extract only the colors that you selected using the color ring.

Rotate the control dial (◎) to select a color to extract. The effects will be displayed in live view.

Using PHOTO STORY (▦)

You can shoot a PHOTO STORY. Shoot with selected PHOTO STORY type.

1 Rotate the mode dial to ▦.

- A PHOTO STORY menu will be displayed.

  ▦1: Standard
  ▦2: Speed
  ▦3: Zoom In/Out
  ▦4: Layout*
  ▦5: Fun Frames
  ▦: Works in progress

  * With Layout, you can set any picture mode, including art filters, for each frame. ☞ "Picture mode" (P.61)

2 Use △▽ to choose the theme of the PHOTO STORY.

- You can display a detailed screen where you choose the variation or number of frames by using ▷.
- 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

After pressing ▷, use △▽ to change the variation.

I	Original PHOTO STORY
II III IV	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.

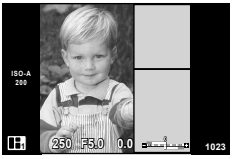
- You can change the frame color and frame surrounding effect in each variation.
- Every theme and variation provides a different PHOTO STORY.

3 After finishing the settings, press **OK**.

- The monitor switches to PHOTO STORY display.
- The subject of current frame is displayed.
- 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.



- To end shooting before taking all the frames, press the **MENU** button, and select an image saving method.

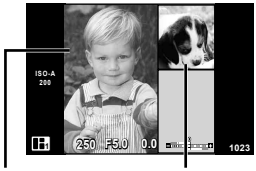
  [Save]: Save images to an SD card and end shooting.

  [Finish later]: Save images to an SD card and temporarily end shooting. Saved data can be called and shooting can be resumed later. (P. 29)

  [Discard]: End shooting without saving images.

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

6 Once you have shot all the frames, press **OK** to save the image.

- During the shooting of a PHOTO STORY, the following operations are available.
  Exposure compensation/Flash shooting (except when the theme is [Speed])/Live control settings (P. 44)
- To use Program Shift (**Ps**) (P. 30), assign it to the control dial with the Dial Function (P. 89).

- 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 [LN+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.
  Movie/Sequential shooting (except when the theme is [Speed])/Self timer/INFO display/Face priority AF/Digital Tele-converter/Picture mode (except when the theme is [Layout])
- The following button operations are disabled.
  Fn/**INFO** etc.
- During the shooting of a PHOTO STORY, the camera will not go into sleep mode.
  If you temporarily saved partway through shooting, recording space for frames not yet taken is reserved on the SD card.

Resuming shooting of works in progress

1 Set the mode dial to ▦.

2 Use △▽ to select Works in progress ▦.

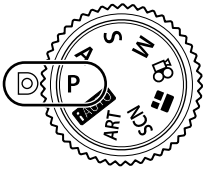
- Partially saved data is displayed in the index.
- ▦ appears on partially saved data.
- To display the PHOTO STORY menu, press the **MENU** button.

3 Select the data with which you want to resume shooting using the arrow pad, and press the **OK** button.

- Shooting resumes from the previous session.

Letting the camera choose aperture and shutter speed (P program mode)

P mode is a shooting mode where the camera automatically sets the optimal aperture and shutter speed according to subject brightness. Set the mode dial to **P**.



- The shutter speed and aperture selected by the camera are displayed.
- The shutter speed and aperture displays will blink if the camera is unable to achieve correct exposure.

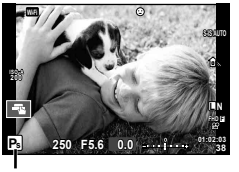
Warning display example (blinking)	Status	Action
60" F2.8	The subject is too dark.	• Use the flash.
4000 F22	The subject is too bright.	• The metered range of the camera is exceeded. A commercially available ND filter (for adjusting the amount of light) is required.

- The aperture value at the moment when its indication blinks varies with the lens type and focal length of the lens.

Program shift (Ps)

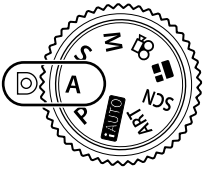
In **P** and **ART** modes, you can choose different combinations of aperture value and shutter speed without altering exposure. Press ☒ button (△), then rotate the control dial (⊙) or press △ ▽ to set program shift so that "**s**" appears next to the shooting mode. To cancel program shift, press △ ▽ until "**s**" is no longer displayed.

- Program shift is not available when you are using a flash or **SCN** mode.



Choosing aperture (A aperture-priority mode)

Mode **A** is a shooting mode where you choose the aperture and let the camera automatically adjust to the appropriate shutter speed. Rotate the mode dial to **A** and then use the control dial (☏) to select an aperture value.
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

- After pressing the ☒ button (△), you can also use △▽ to choose the aperture.

Setting the aperture value

Decreasing aperture value ← → Increasing aperture value

F2.8← F4.0← **F5.6** →F8.0 →F11

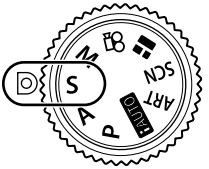
- The shutter speed display will blink if the camera is unable to achieve correct exposure.

Warning display example (blinking)	Status	Action
60" F5.6	The subject is underexposed.	• Decrease the aperture value.
4000 F5.6	The subject is overexposed.	• 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.

Choosing shutter speed (S shutter-priority mode)

Mode **S** is a shooting mode where you choose the shutter speed and let the camera automatically adjust to the appropriate aperture. Rotate the mode dial to **S** and then use the control dial (◎) to select shutter speed.
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

- After pressing the ☒ button (△), you can also use △▽ to choose the shutter speed.

Setting the shutter speed

Slower shutter speed ← → Faster shutter speed

60"← 15← 30← **60** →125 →250 →4000

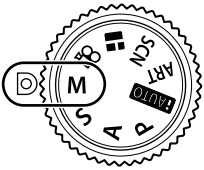
- The aperture value display will blink if the camera is unable to achieve correct exposure.

Warning display example (blinking)	Status	Action
200 F2.8	The subject is underexposed.	• Set the shutter speed slower.
125 F22	The subject is overexposed.	• 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.

Choosing aperture and shutter speed (M manual mode)

Mode M is a shooting mode where you choose both the aperture and shutter speed. They can be set even in bulb, time, and live composite photography. Rotate the mode dial to M, rotate the control dial (⊛) to adjust the shutter speed, and after presssing the ☒ button (△), rotate the control dial (⊛) to adjust the aperture.



Difference from correct exposure

- The exposure determined by the aperture value and shutter speed you have set, and the difference relative to a suitable exposure measured by the camera are displayed on the monitor.
- Shutter speed can be set to values between 1/4000 and 60 seconds or to [BULB] or [LIVE TIME], or [LIVECOMP].
- Even when you have set [Noise Reduct.], noise and/or light spots may still be noticeable in the image displayed on the monitor and shot images under certain environmental conditions (temperature etc.) and camera settings.

Noise in images

While shooting at slow shutter speeds, noise may appear on screen. These phenomena occur when the temperature rises in the image pickup device or image pickup device internal drive circuit, causing current to be generated in those sections of the image pickup device that are not normally exposed to light. This can also occur when shooting with a high ISO setting in a high-temperature environment. To reduce this noise, the camera activates the noise reduction function. ☞ [Noise Reduct.] (P. 91)

Shooting with long exposure time (BULB/TIME)

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. ☞ “Bulb/Time Monitor” (P. 92)
- 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. 92) can be used to display the image exposure during bulb photography.
- There are limits on the available ISO sensitivity settings.
- To reduce camera blur, mount the camera on a sturdy tripod and use a remote cable (P. 129).

- During shooting, there are limits on the settings for the following functions.
  Sequential shooting/self-timer shooting/interval shooting/AE bracket shooting/image stabilizer/flash bracketing/multiple exposure* etc.
  * When an option other than [Off] is selected for [Live Bulb] or [Live Time] (P. 92)
- [Image Stabilizer] turns off automatically.

Live composite photography (dark and light field composite)

You can record a composite image from multiple shots while observing changes in bright flashes of light, such as fireworks and stars, without changing the brightness of the background.

1 Set an exposure time to be the reference in [Composite Settings] (P. 92).

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 once to prepare for shooting.
- You can shoot when a message that indicates preparations are complete is displayed in the monitor.

4 Press the shutter button.
- Live composite shooting begins. A composite image is displayed after each reference exposure time, allowing you to observe changes in light.
- During composite shooting, the screen brightness changes automatically.

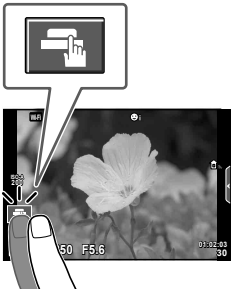
5 Press the shutter button to end shooting.
- The maximum length of composite shooting is 3 hours. However, the available shooting time will vary depending on shooting conditions, and charging state of the camera.

- There are limits on the available ISO sensitivity settings.
- To reduce camera blur, mount the camera on a sturdy tripod and use a remote cable (P. 129).
- During shooting, there are limits on the settings for the following functions.
  Sequential shooting/self-timer shooting/interval shooting/AE bracket shooting/image stabilizer/flash bracketing etc.
- [Image Stabilizer] turns off automatically.

Shooting with touch screen operations

Tap to cycle through touch screen settings.

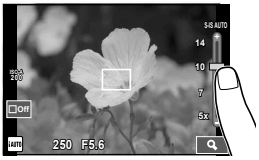
	Tap a subject to focus and automatically release the shutter. This function is not available in mode.
	Touch screen operations disabled.
	Tap to display an AF target and focus on the subject in the selected area. You can use the touch screen to choose the position and size of the focus frame. Photographs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



■ Previewing Your Subject ( )

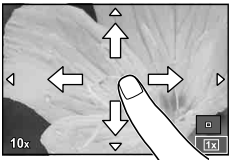
1 Tap the subject in the display.

- An AF target will be displayed.
- Use the slider to choose the size of the frame.
- Touch Off 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 1x to cancel the zoom display.



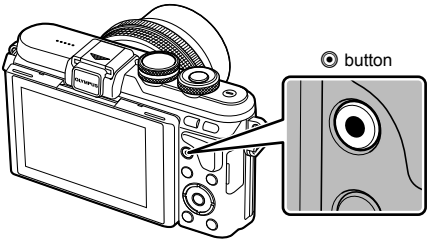
- The situations in which touch screen operations are not available include the following. Panorama/3D/multiple exposure/during bulb, time or live composite photography/one-touch white balance dialog/when buttons or dials are in use
- Do not touch the display with your fingernails or other sharp objects.
- Gloves or monitor covers may interfere with touch screen operation.

Recording movies

You can record movies when the mode dial is on any mode except ▦ (PHOTO STORY).

1 Press the ◉ button to begin recording.

- You can change the focus location by touching the screen while recording.



2 Press the ◉ button again to end recording.

- 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

Using movie mode (🎥)

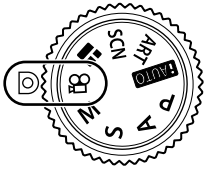
With movie mode (🎥), you can create movies that take advantage of the effects available in still photography mode. Use live control to select the settings. ☞ “Adding effects to a movie” (P. 62)
You can also apply an after-image effect or zoom in on an area of the image during movie recording.

■ Adding effects to a movie [Movie Effect]

1 Rotate the mode dial to 🎥.

2 Press the ◉ button to begin recording.
- Press the ◉ button again to end recording.

3 Touch the on-screen icon of the effect you wish to use.



	Art Fade	Film with the selected picture mode effect. The fade effect is applied to the transition between scenes.
	Old Film	Randomly apply damage and dust-like noise similar to old movies.
	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.
	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.

Art Fade

Touch the icon. The effect will be applied gradually when you release your finger.

Old Film

Touch the icon for the effect to be applied. Touch again to cancel the effect.

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.

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 △▽◁▷.
- Press and hold **OK** to return the zoom frame to a central position.

2 Touch [ ] or press the 🔍 button to zoom in on the area in the zoom frame.

- Touch [ ] or press the 🔍 button to return to the zoom frame display.

3 Touch [□off] or press **OK** to cancel the zoom frame and exit Movie tele-converter mode.

- Movie Tele-converter is not available in self-portrait mode.
- The 2 effects cannot be applied simultaneously.
- Use a memory card with an SD speed class of 10 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. 95), you cannot take photographs while using other movie effects than Movie Tele-converter.
- [e-Portrait] and [Diorama] cannot be used at the same time as Art Fade.
- The sound of touch operations and button operations may be recorded.
- Art Fade cannot be used when shooting clips.

Taking photographs during movie recording (Movie+Photo Mode)

- Press the shutter button during movie recording to record one of the frames of the movie as a photograph. 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 MN (16:9).
- There is also a way of recording a photograph of a higher quality. ☞ [Movie+Photo Mode] (P. 95)
- You cannot take photographs while recording clips when [Movie+Photo Mode] is set to [mode1]. The number of photographs may be limited.
- The autofocus and metering used in movie mode may differ from that used to take photographs.

Shooting “My Clips”

You can create a single My Clips movie file including multiple short movies (clips). You can also add still pictures to the My Clips movie.

■ Shooting

1 Rotate the mode dial to 🎥.

2 Tap the Clips icon.

- The clips icon is not displayed when the image quality mode (P.57) is set to (Clips).

Clips icon

- You can also select Clips by pressing the **OK** button to display the live control. Use △▽ to select the image quality mode, ◁▷ to select (Clips), and then press the **OK** button.
  When selecting the image quality mode, press the **INFO** button to change [Clip Recording Time].
  ☞ “Movie image quality mode” (P.57)

3 Press the ◉ button to start shooting.

- The recording ends automatically when the preset shooting time has elapsed, and a screen for checking the recorded movie is displayed. Press the **OK** button to save your clip and begin shooting the next one.
- You can extend the shooting time (for up to 16 seconds) by pressing the ◉ button again during shooting.

4 Press the ◉ button to shoot the next clip.

- To delete the clip you have shot or save it in a different My Clips, perform the following on the confirmation screen.

△	My Clips will be played back, starting from the beginning.
▽	Changes the My Clips in which to save the clip and the position at which to add the new clip.
🗑	Deletes the shot clip without saving it.

- Press the shutter button half-way down to add the next shot. The clip is saved in the same My Clips as the previous clip.

■ Playback

You can play back the files in My Clips consecutively.

1 Press ▶ and select an image marked 🎬.

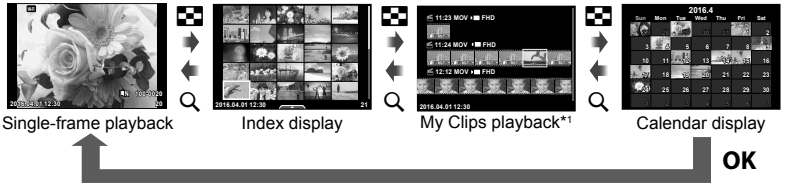
2 Press **OK** and select [Play My Clips] using △▽. Then press **OK** again.

- The files in My Clips will play back consecutively.
- Press **OK** to end the consecutive playback.

Editing “My Clips”

You can create a single movie file from My Clips.
The shot clips are stored in My Clips. You can add movie clips and still pictures to My Clips (P. 70). You can also add screen transition effects and art filter effects.

1 Press [▶] and then press [▦] button repeatedly to play back My Clips.



Single-frame playback — Index display — My Clips playback*1 — Calendar display

*1 If one or more My Clips have been created, it will be displayed here (P. 39)

2 Select My Clips with △▽, use ◁▷ to choose the clips you want to work with, and then press **OK**.

3 Select an item using △▽ and press the **OK** button.

Play My Clips	Plays back the files in My Clips in order, starting from the beginning.
Play Movie	When a movie file has been selected, you can control playback in movie mode.
Rearrange Order	Move files within My Clips or transfer files between separate My Clips.
Preset Destination	From the next time you shoot, movies shot in the same image quality mode will be added to this My Clips.
Delete My Clips	Deletes all unprotected files from My Clips.
Erase	Erase the selected file. You can also erase a file by selecting it in Step 2 and pressing 🗑.

4 Display My Clips file from which you wish to create the movie. Select [Export My Clips] and press **OK**.

5 Select an item using △▽ and press the **OK** button.

Clip Effects	You can apply 6 types of art effects.
Transition Effect	You can apply fade effects.
BGM	Set [Happy Days] or [Off].
Recorded Clip Volume	Set a volume for sounds recorded in the movie when BGM is set to [Happy Days].
Recorded Clip Sound	Set [On] to create a movie with the recorded sound. This setting is only available when BGM is set to [Off].
Preview	Preview the files of the set My Clips in order, starting from the first file.

6 When you have finished the editings, select [Begin Export] and press **OK**.

- The combined album is saved as a single movie.
- Exporting a movie may take some time.
- The maximum length for My Clips is 15 minutes and the maximum file size is 4 GB.
- My Clips will be recorded in Full HD and Normal.

- It may take a while for My Clips to display after taking out, inserting, erasing, or protecting the card.
- You can record a maximum of 99 My Clips and a maximum of 99 cuts per clip. The maximum values may vary depending on the file size and length of My Clips.
- You cannot add movies other than clips to My Clips.
- You can also work with My Clips files directly using single-frame playback. In single-frame playback, select a clip and press the **OK** button, then select [See all My Clips] and press **OK** again. Proceed from Step 2.

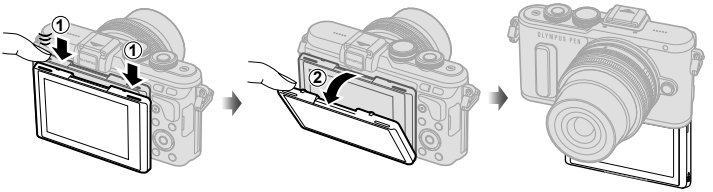
BGM other than [Happy Days]

To use BGM other than [Happy Days], record data that you have downloaded from the Olympus website onto the card and select it as [BGM] in Step 5. Visit the following website for the download.
http://support.olympus-imaging.com/bgmdownload/

Self-portraits

Inverting the monitor allows you to take pictures of yourself while you preview the frame.

1 Push the monitor down slightly and swing it downward.



- If a power zoom lens is attached, the camera automatically switches to wide angle.
- The self portrait menu is displayed in the monitor.
- Different icons may be displayed depending on the shooting mode.

	Shutter Touch	When the icon is touched, the shutter is released about 1 second later.
	Movie	When you touch this icon, movie recording will start. To stop recording, press the ( ) icon. While recording a clip, touch ( ) again to extend the recording time (up to a maximum of 16 seconds).
Off	**One Touch e-Portrait**	Turning this on makes skin look smooth and translucent.
Off	**One Touch Custom Self Timer**	Shoot 3 frames using the self timer. You can set the number of times the shutter is released and the interval between each release using Custom Self Timer. This icon is not displayed when Custom Self-timer is selected. ☞ "Custom Self-timer" (P. 55).
	Brightness adjustment (Exposure compensation)	Touch [+] or [-] icon to adjust the brightness.
Clips Off	**Clips**	Touch this icon to switch to Clips mode. Touch again to return to normal movie mode. This icon is not displayed when the image quality mode (P.57) is set to (Clips).

2 Frame the shot.

- Be careful that your fingers or the camera strap do not obstruct the lens.

3 Touch ⊙ and shoot.

- The shot image will be displayed on the monitor.
- You can also shoot by touching the subject displayed in the monitor, or by pressing the shutter button.

- You can shoot by operating the camera with a smartphone. ☞ “Shooting remotely with a smartphone” (P. 112)
- When the AF mode in movie mode is set to C-AF, [Full-time AF] will be [On].

Using shooting options

Calling shooting options

You can call up especially often-used shooting options using pre-allocated buttons. To select shooting options not assigned to buttons, use the live control. You can use live control to select the shooting function while checking the effect on the screen in **P**, **A**, **S**, **M**, 🎥 and ▦ modes.
Live control is not displayed in **iAUTO**, **ART** and **SCN** modes at default settings. When the [Live Control] in 📷Control Settings (P. 90) is set to On, you can use live control even in **iAUTO**, **ART** and **SCN** modes.

Live control

Live control screen

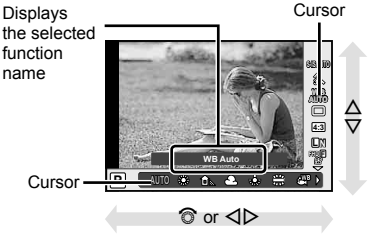
■ Available settings

Image stabilizer* ..... P. 53
Picture mode* ..... P. 61
Scene mode ..... P. 24
Art filter mode ..... P. 26
White balance* ..... P. 52
Sequential shooting/Self-timer* ..... P. 54
Aspect ratio ..... P. 56
Record mode* ..... P. 57
🎥 mode* ..... P. 37
Flash mode ..... P. 58
Flash intensity control ..... P. 60
Metering mode ..... P. 50
AF mode* ..... P. 49
ISO sensitivity* ..... P. 51
Face priority* ..... P. 47
Movie sound record* ..... P. 62

* Available in 🎥 mode.

1 Press **OK** to display the live control.
- To hide the live control, press **OK** again.

2 Use △▽ to select the settings, use ◁▷ to change the selected setting, and press **OK**.
- You can use the control dial (◎) to select a setting.
- The selected settings take effect automatically if no operations are performed for about 8 seconds.



- Some items are not available in some shooting modes.

Controlling exposure (exposure compensation)

After pressing the ☒ button (△), use the control dial (◎) or ◁▷ to adjust the exposure compensation. Choose positive ("+") values to make pictures brighter, negative ("–") values to make pictures darker. Exposure can be adjusted by ±5.0 EV.

Negative (–) No compensation (0) Positive (+)

- Exposure compensation is not available in iAUTO, M, or SCN mode.
- The monitor display can only be changed up to ±3.0EV. 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.

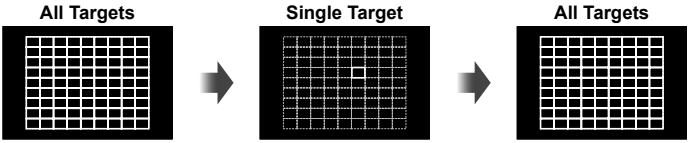
Setting the AF target (AF Area)

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

1 Press the [▪▪▪] button (◁) to display the AF target.

2 Use △▽◁▷ to change to single target display and select 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.

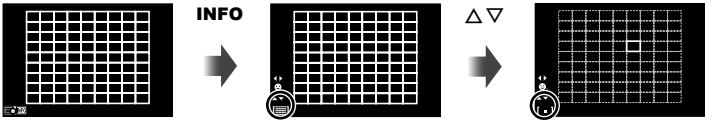
- When using a Four Thirds system lens, the camera automatically switches to single target mode.
- The size and number of the AF target changes depending on the [Digital Tele-converter], [Image Aspect], and group target settings.

Using small target and group target (Setting AF target)

You can change the target selection method and target size. You can also select Face priority AF (P. 47).

1 Press the [▪▪▪] button (◁) to display the AF target.

2 Press the **INFO** button during AF target selection and choose a selection method using △▽.

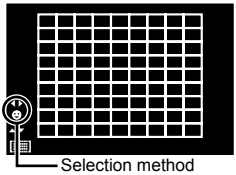


(All Targets)	The camera selects automatically from among all the AF targets.
[▪] (Single Target)	You select a single AF target.
[▪]S (Small Target)	The AF target can be reduced in size.
[⁞⁞⁞] (Group Target)	The camera automatically chooses from the targets in the selected group.

- 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.

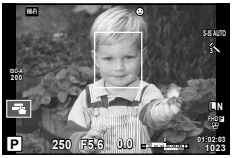


1 Press the [▪▪▪] button (◁) to display the AF target.

2 Press the **INFO** button.
- You can change the AF target selection method.

3 Use ◁▷ to select an option and press **OK**.

	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.
- If a face is detected, it will be indicated by a white border.

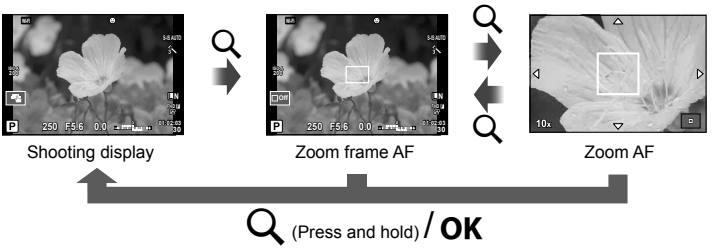
5 Press the shutter button halfway to focus.
- When the camera focuses on the face in the white border, the border will turn green.
- If the camera is able to detect the subject's eyes, it will display a green frame over the selected eye. (pupil detection AF)

6 Press the shutter button the rest of the way down to shoot.

- Face priority applies only to the first shot in each sequence taken during sequential shooting.
- Pupil detection is not available in [**C-AF**].
- Depending on the subject and the art filter setting, the camera may not be able to correctly detect the face.
- When set to [(Digital ESP metering)], metering is performed with priority given to faces.
- Face priority is also available in [MF]. Faces detected by the camera are indicated by white frames.

Zoom frame AF/zoom AF (Super Spot 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 Press and release the 🔍 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 △▽◁▷ to position the zoom frame.
- Press the **INFO** button and use △▽ to choose the zoom ratio. (×5, ×7, ×10, ×14)

2 Press and release the 🔍 button again to zoom in on the zoom frame.

- Use △▽◁▷ to position the zoom frame.
- You can change the zoom ratio by rotating the control dial (◎).

3 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.

- You can also display and move the zoom frame using touch screen operations.
- 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.
- While zoomed in, a sound is made by the IS (Image Stabilizer).

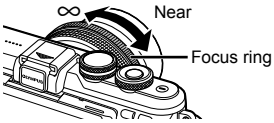
Choosing a focus mode (AF mode)

Select a focusing method (focus mode).
You can choose separate focusing methods for still photography mode and 🎥 mode.

1 Press the **OK** button to display the live control, and select the AF mode item using △▽.

2 Select an option with ◁▷ and press the **OK** button.

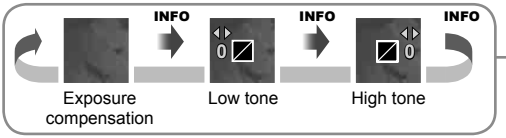
- The selected AF mode is displayed on the monitor.

S-AF (single AF)	The camera focuses once when the shutter button is pressed halfway. When the focus is locked, a beep sounds, and the AF confirmation mark and the AF target mark light up. This mode is suitable for taking pictures of still subjects or subjects with limited movement.
C-AF (continuous AF)	The camera repeats focusing while the shutter button remains pressed halfway. When the subject is in focus, the AF confirmation mark lights up on the monitor and the beep sounds when the focus is locked at the first time. Even if the subject moves or you change the composition of the picture, the camera continues trying to focus. • When using a Four Thirds system lens, this setting will change to [S-AF].
MF (manual focus)	This function allows you to manually focus on any position by operating the focus ring on the lens. 
S-AF+MF (simultaneous use of S-AF mode and MF mode)	After pressing the shutter button halfway to focus in [S-AF] mode, you can turn the focus ring to fine-adjust focus manually.
C-AF+TR (AF tracking)	Press the shutter button halfway to focus; the camera then tracks and maintains focus on the current subject while the shutter button is held in this position. • The AF target is displayed in red if the camera can no longer track the subject. Release the shutter button and then frame the subject again and press the shutter button halfway. • When using a Four Thirds system lens, this setting will change to [S-AF].

- The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast.
- When using a Four Thirds system lens, AF will not be available during movie recording.
- You cannot set the AF mode if the MF focus latch of the lens is set to MF.

Changing the brightness of highlights and shadows

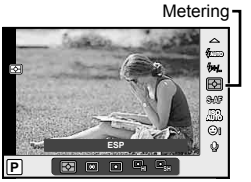
Press the ☒ button (△) and press the **INFO** button to display the Highlight & Shadow Control menu. Use ◁▷ to choose a tone level. Choose “low” to darken shadows or “high” to brighten highlights.



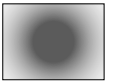
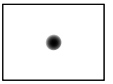
Choosing how the camera measures brightness (metering)

Choose how the camera meters subject brightness.

1 Press the **OK** button to display the live control, and select the metering item using △▽.



2 Select an option with ◁▷ 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. 
HI	**Spot metering - highlight**	Increases spot metering exposure. Ensures bright subjects appear bright.
SH	**Spot metering - shadow**	Lowers spot metering exposure. Ensures dark subjects appear dark.

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 the **OK** button to display the live control, and select the ISO sensitivity item using △▽.

ISO sensitivity

2 Select an option with ◁▷ and press the **OK** button.

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

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 the **OK** button to display the live control, and select the white balance item using △▽.

White balance

2 Select an option with ◁▷ and press the **OK** button.

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
	WB	—	For underwater photography
	WB⚡	5500K	For flash shooting
One-touch white balance (P. 53)	1/2/3/4	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 [1], [2], [3] or [4] (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 **OK**.
- 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.

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 to display the live control, and select the image stabilizer item using △▽.

Image stabilizer

2 Select an option with ◁▷ 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 (↕) camera shake.
	S-IS3	Horizontal Shake I.S.	Image stabilization applies only to horizontal (↔) 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.

- 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.

When using a lens with the image stabilization switch

Set the image stabilizer of the camera and the image stabilization switch of the lens. When you do not use the image stabilizer, set both of the functions on the camera and the lens to off.

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 ▭/⏱ button (▽) to display the sequential shooting/self timer control.

- You can also set by pressing the **OK** button to display the live control, and selecting ▭/⏱ (sequential shooting/self timer) item using △▽.
- You can also set from [▭/⏱] in 2 Shooting Menu 2.

2 Select an option with ◁▷ 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).
▭H **Sequential H**	Photographs are taken at about 7.1 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.
▭L **Sequential L**	Photographs are taken at about 3.7 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. 49) and [AEL/AFL] (P. 97).

12s	**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.
2s	**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.
C	**Custom Self-timer**	Press the **INFO** button to set [Timer], [Number of Frames], [Interval Length], and [Every Frame AF]. Select a setting using ◁▷, and adjust the setting by using the control dial ( ). If [Every Frame AF] is set to [On], each frame is automatically focused before shooting.

- To cancel the activated self-timer, press ▽.
- When you are using L, no confirmation image is displayed during shooting. The image is displayed again after shooting ends. When you are using H, 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 when using the self-timer, the photograph may be out of focus.

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].

1 Press the **OK** button to display the live control, and select the aspect ratio item using △▽.

2 Select an aspect ratio option with ◁▷ and press the **OK** button.

- 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.

Selecting image quality (still image quality mode)

You can set an image quality mode for still images. Select a quality suitable for the application (such as for processing on PC, use on website etc.).

1 Press **OK** to display the live control, and select the image quality mode item for still images using △▽.

Still image quality mode

2 Select an option with ◁▷ and press the **OK** button.

Choose from JPEG (LF, LN, MN, and SN) and RAW modes. Choose a JPEG+RAW option to record both a JPEG and a RAW image with each shot. JPEG modes combine image size (L, M, and S) and compression ratio (SF, F, N, and B).
When you want to select a combination other than LF/LN/MN/SN, change the [◀⁝- Set] (P. 93) settings in Custom Menu.

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. 84)

Selecting image quality (movie image quality mode)

Set a movie image quality mode suitable for the desired use.

1 Set the mode dial to 🎥.

2 Press the **OK** button to display the live control, and select the movie image quality mode item using △▽.

3 Select an option with ◁▷.

- To change the shooting time of clips, press the **INFO** button and change settings using the control dial (◎).

Record mode	Application	Settings you can change
FHD (Full HD Normal)*1	Switches to clips shooting (P. 39).	Shooting time
FHD F (Full HD Fine)*1	Display on TVs and other devices	–
FHD N (Full HD Normal)*1		
HD F (HD Fine)*1		
HD N (HD Normal)*1		
HD (1280×720, Motion JPEG)*2	For computer playback or editing	–
SD (640×480, Motion JPEG)*2		

*1 File format: MPEG-4 AVC/H.264. Files may be up to 4 GB in size. Individual movies may be up to 29 minutes in length.

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

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

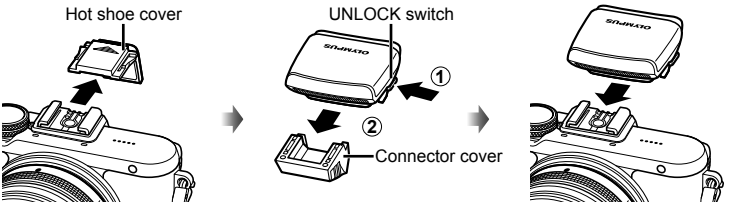
4 Press the **OK** button to save changes.

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.

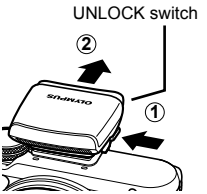
1 Remove the connector cover from the flash unit and attach the flash to the camera.

- Slide the flash unit all the way in, stopping when it contacts the back of the shoe and is securely in place.



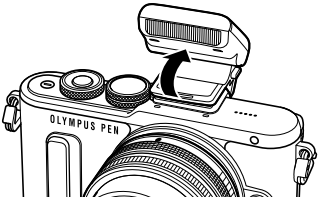
Removing the flash unit

Press the UNLOCK switch while removing the flash unit.



2 Raise the flash head.

- Lower the flash head when the flash is not in use.

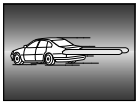


3 Press the ⚡ button (▷) to display the flash mode control.

- You can also set by pressing the **OK** button to display the live control, and selecting flash mode item using △▽.

4 Select an option with ◁▷ and press the **OK** 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. 59)

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**	**Slow synchronization (1st curtain)**	Slow shutter speeds are used to brighten dimly-lit backgrounds.
👁**SLOW**	**Slow synchronization (1st curtain)/Red-eye reduction flash**	Combines slow synchronization with red-eye reduction.
⚡**SLOW2/ 2nd Curtain**	**Slow synchronization (2nd curtain)**	The flash fires just before the shutter closes to create trails of light behind moving light sources. 
⚡**FULL**, ⚡**1/4** etc.	**Manual**	For users who prefer manual operation. If you press the **INFO** button, you can use the dial to adjust the flash level.

- 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**	Auto flash	1st curtain	Fires automatically in dark/backlit conditions	1/30 sec. – 1/250 sec.*
	👁	Auto flash (red-eye reduction)			
	⚡	Fill-in flash		Always fires	30 sec. – 1/250 sec.*
	⊛	Flash off	—	—	—
	👁 **SLOW**	Slow synchronization (red-eye reduction)	1st curtain	Fires automatically in dark/backlit conditions	60 sec. – 1/250 sec.*
	⚡**SLOW**	Slow synchronization (1st curtain)			
	⚡ **SLOW2**	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	—	—	—
	⚡ 2nd-C	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 seconds when using a separately sold external flash.

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	0.25 m
25mm f1.8	0.25m
45mm f1.8	0.5m
14 – 42mm IIR	0.55m
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 to appears overexposed, or is underexposed even though the exposure in the rest of the frame is just right.

1 Press the **OK** button to display the live control, and select the flash intensity control item using △▽.

2 Select a flash compensation value with ◁▷ and press the **OK** button.

- 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.

Processing options (picture mode)

Select a picture mode and make individual adjustments to contrast, sharpness, and other parameters (P. 75). Changes to each picture mode are stored separately.

1 Press the **OK** button to display the live control, and select the picture mode item using △▽.

Picture mode

2 Select an item using ◁▷ 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.
Monochrome	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.
Underwater	Produces colors suited to the underwater scene.
Pop Art	Choose an art filter and select the desired effect. ☞ "Types of art filters" (P. 26)
Soft Focus	
Pale&Light Color	
Light Tone	
Grainy Film	
Pin Hole	
Diorama	
Cross Process	
Gentle Sepia	
Dramatic Tone	
Key Line	
Watercolor	
Vintage	
Partial Color*	

* After choosing Partial Color using ◁▷, press the **INFO** button to display the color ring.

Movie sound options (recording sound with movies)

You can set the recording sound when shooting movies.

1 Rotate the mode dial to 🎥, press the **OK** button to display the live control, and select the movie sound item using △▽.

Movie sound

2 Switch ON/OFF using ◁▷ and press the **OK** button.

- 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 (Diorama) mode.
- When recording sound with movies is set to [OFF], is displayed.

Adding effects to a movie

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

1 Set the mode dial to 🎥, press the **OK** button to display the live control, and select the shooting mode item using △▽.

Shooting mode

2 Use ◁▷ to choose a shooting mode and press the **OK** button.

P	Optimal aperture is set automatically according to the brightness of the subject. You can adjust the exposure by using the control dial (◎). After pressing the button, you can also set it by using ◁▷.
A	Depiction of background is changed by setting the aperture. You can set the aperture by using the control dial (◎). After pressing the button, you can also set it by using △▽. After pressing the button, you can adjust the exposure by using ◁▷.
S	Shutter speed affects how the subject appears. You can set the shutter speed by using the control dial (◎). After pressing the button, you can also set it by using △▽. After pressing the button, you can adjust the exposure by using ◁▷. The shutter speed can be set to values between 1/30 s and 1/4000 s.
M	You control both aperture and shutter speed. You can set the shutter speed by using the control dial (◎). After pressing the button, you can also set it by using △▽. After pressing the button, you can set the aperture by using the control dial (◎) or ◁▷. The shutter speed can be set to values between 1/30 s and 1/4000 s. The sensitivity can only be set manually to values between ISO 200 and 3200.

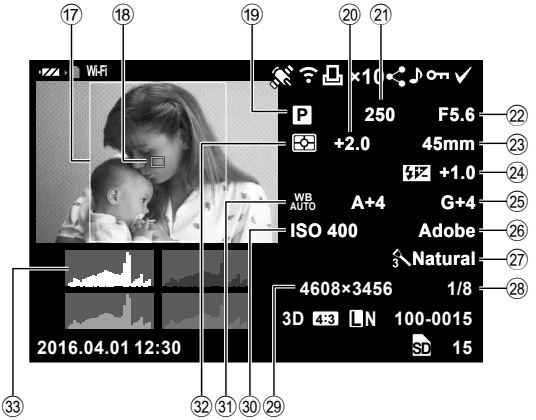
- Stabilization is not possible when the camera shake is excessive.
- When the inside of the camera becomes hot, shooting is automatically stopped to protect the camera.
- With some art filters, [C-AF] operation is limited.

Information display during playback

Playback image information

Simplified display

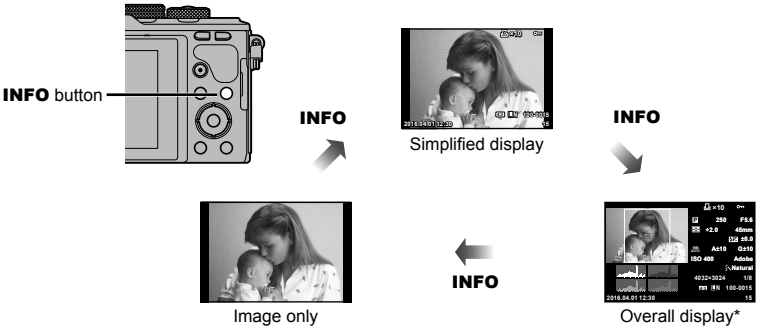
Overall display



① Battery check ..... P. 16
② Wireless LAN connection..... P. 110 – 115
③ Including GPS information ..... P. 113
④ Eye-Fi upload complete ..... P. 96
⑤ Print reservation
Number of prints ..... P. 121
⑥ Share order ..... P. 70
⑦ Sound record ..... P. 70
⑧ Protect ..... P. 69
⑨ Image selected ..... P. 70
⑩ File number ..... P. 94
⑪ Frame number
⑫ Storage device
⑬ Record mode ..... P. 76
⑭ Aspect ratio ..... P. 56
⑮ 3D image ..... P. 24
Temporarily saved image for PHOTO STORY ..... P. 29
HDR1 HDR2 HDR image ..... P. 80
⑯ Date and time ..... P. 17
⑰ Aspect border ..... P. 56
⑱ AF target ..... P. 46
⑲ Shooting mode ..... P. 20 – 37
⑳ Exposure compensation ..... P. 45
㉑ Shutter speed ..... P. 30 – 33
㉒ Aperture value ..... P. 30 – 33
㉓ Focal length
㉔ Flash compensation value ..... P. 60
㉕ White balance compensation
㉖ Color space ..... P. 93
㉗ Picture mode ..... P. 61
㉘ Compression rate ..... P. 106
㉙ Pixel count ..... P. 93
㉚ ISO sensitivity ..... P. 51
㉛ White balance ..... P. 52
㉜ Metering mode ..... P. 50
㉝ Histogram ..... P. 19

Switching the information display

You can switch the information displayed during playback by pressing the **INFO** button.

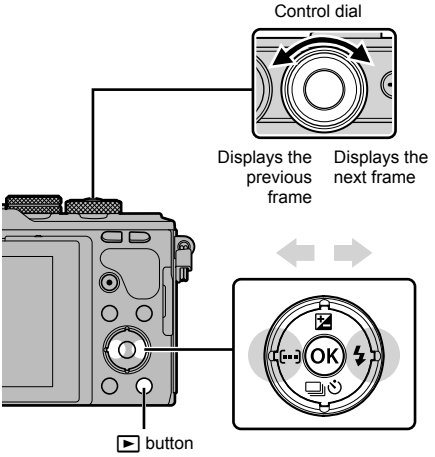


* Not displayed during movie frame playback.

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 control dial (◎) or arrow pad.
- Press the shutter button halfway to return to shooting mode.



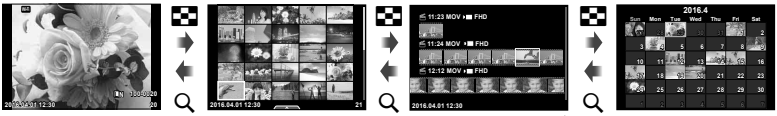
Still image

Movie

Control dial (◎)	Single-frame playback: Previous (◎)/Next (◎) Close-up playback: You can display the next frame or the previous frame during close-up playback. Index/My Clips/calendar playback: Highlight image
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/My Clips/calendar playback: Highlight image
🔍	Close-up playback
▦	Index display
INFO	View image info
☑	Select picture (P. 70)
🗑	Delete picture (P. 69)
OK	View menus (in calendar playback, press this button to exit to single-frame playback)

Index display/Calendar display

- From single-frame playback, press the ▦ button for index playback. Press the ▦ button further for My Clips playback and further still for calendar playback.
- Press the **OK** button to return to single-frame playback.



Single-frame playback | Index display | My Clips playback*1 | Calendar display

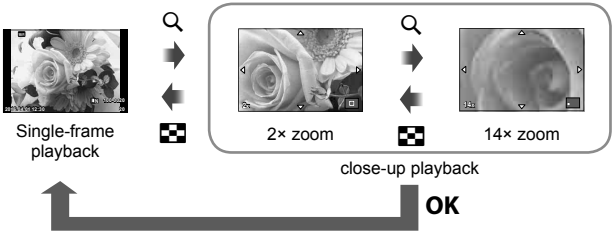
OK

*1 If one or more My Clips have been created, it will be displayed here (P. 39).

Viewing still images

Close-up playback

In single-frame playback, press the 🔍 button to zoom in. Press the ▦ button to return to single-frame playback.



Single-frame playback

close-up playback

OK

Rotate

Choose whether to rotate photographs.

1 Play the photograph back and press **OK**.

2 Select [Rotate] and press **OK**.

3 Press △ 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 [▶].

2 Adjust settings.

Start	Start the slideshow. Images are displayed in order, starting with the current picture.
BGM	Set [Happy Days] or turn BGM [Off]. Other BGM can be selected once it has been downloaded from the Olympus website. http://support.olympus-imaging.com/bgmdownload/
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 △▽ 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.

Volume

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

Watching movies

Select a movie and press the **OK** button to display the playback menu. Select [Play Movie] and press the **OK** button to begin playback. Fast-forward and rewind using ◁/▷.
Press the **OK** button again to pause playback. While playback is paused, use △ to view the first frame and ▽ to view the last frame. Use ◁▷ or the control dial (◎) to view earlier and later frames. Press the **MENU** button to end playback.

- 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

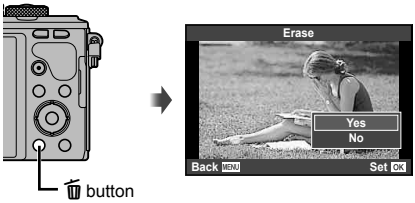
Protect images from accidental deletion. Display an image you wish to protect and press **OK** to display the playback menu. Select [O⊸] and press **OK**, and then press △ or ▽ to protect the image. Protected images are shown by a O⊸ (protect) icon. Press △ or ▽ to remove protection.
You can also protect multiple selected images.
☞ "Selecting images ([O⊸], [Erase Selected], [Share Order Selected])" (P. 70)

O⊸ (protect) icon

- 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 **OK** button.
You can erase images without the confirmation step by changing the button settings.
☞ [Quick Erase] (P. 94)



Setting a transfer order on images (Share Order)

You can select images you want to transfer to a smartphone in advance. You can also browse just the images included in the share order. When playing back images you want to transfer, press **OK** to display the playback menu. After selecting [Share Order] and pressing **OK**, press △ or ▽ to set a share order on an image and display ⟨. To cancel a share order, press △ or ▽.
You can select images you want to transfer in advance and set a share order all at once. ☞ "Selecting images ([O┬], [Erase Selected], [Share Order Selected])" (P. 70), "Transferring images to a smartphone" (P. 112)

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

Selecting images ([O┬], [Erase Selected], [Share Order Selected])

You can select multiple images for [O┬], [Erase Selected] or [Share Order Selected].
Press the ☑ button in the index display screen (P. 67) to select an image; a ✔ icon will appear on the image. Press the ☑ button again to cancel the selection.
Press **OK** to display the menu, and then select from, [O┬], [Erase Selected], or [Share Order Selected].
This function is also available in single-frame playback.

Audio recording

Add an audio recording (up to 30 sec. 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 [🎙] and press **OK**.
- To exit without adding a recording, select [No].

3 Select [🎙 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 ♪ icon.
- To delete a recording, select [Erase] in Step 3.

Adding still pictures to My Clips (Add to My Clips)

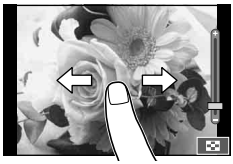
You can also select still pictures and add them to My Clips.

Display the still picture you wish to add and press **OK** to display the menu. Select [Add to My Clips] and press **OK**. Using △▽◁▷, select My Clips and the order in which you wish to add the pictures, then press **OK**.

Using the touch screen

You can use the touch panel to manipulate images.

■ Full-frame playback



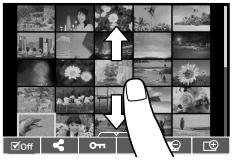
Viewing additional images

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

Playback zoom

- Lightly touch the screen to display the slider and .
- 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 and My Clips playback.

■ Index/My Clips/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.
<	Images you want to share with a smartphone can be set. ☞ “Setting a transfer order on images (Share Order)” (P. 70)
O-π	Protects an image.

- Do not touch the display with your fingernails or other sharp objects.
- Gloves and monitor covers may interfere with touch screen operation.

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.

1	Preliminary and basic shooting options
2	Advanced shooting options
▶	Playback and retouch options
⚙	Customizing camera settings (P. 88)
	Accessory port menu options for accessory port devices such as EVF and OLYMPUS PENPAL (P. 107)*
	Camera setup (e.g., date and language)

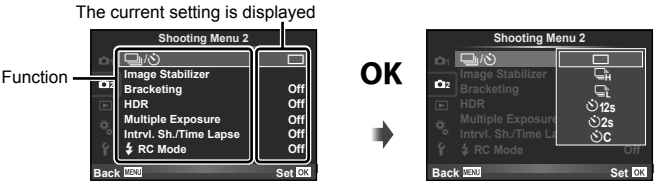
* Not displayed at default settings

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

- A guide is displayed for about 2 seconds after you select an option.
- Press the **INFO** button to view or hide guides.

2 Use △▽ to select a tab and press **OK**.

3 Select an item using △▽ and press **OK** to display options for the selected item.



4 Use △▽ to highlight an option and press **OK** to select.

- Press the **MENU** button repeatedly to exit the menu.

- For the default settings of each option, refer to “Menu directory” (P. 138).

Using Shooting Menu 1/Shooting Menu 2

Shooting Menu 1

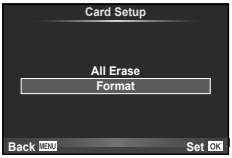
Card Setup (P. 73)
Reset/Myset (P. 74)
Picture Mode (P. 75)
(P. 76)
Image Aspect (P. 56)
Digital Tele-converter (P. 76)

Shooting Menu 2

(Sequential shooting/Self-timer) (P. 54, 77)
Image Stabilizer (P. 53)
Bracketing (P. 78)
HDR (P. 80)
Multiple Exposure (P. 81)
Intrvl. Sh./Time Lapse (P. 82)
RC Mode (P. 83)

Formatting the card (Card Setup)

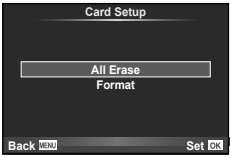
Cards must be formatted with this camera before first use or after being used with other cameras or computers.
All data stored on the card, including protected images, is erased when the card is formatted.
When formatting a used card, confirm there are no images that you still want to keep on the card. ☞ "Usable cards" (P. 124)



1. Select [Card Setup] in Shooting Menu 1.
2. Select [Format] and press **OK**.
3. Select [Yes] and press **OK**.
   - Formatting is performed.

Deleting all images (Card Setup)

All images taken are deleted. Protected images are not deleted.



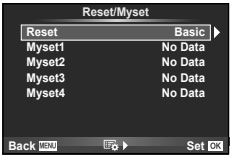
1. Select [Card Setup] in Shooting Menu 1.
2. Select [All Erase] and press **OK**.
3. Select [Yes] and press **OK**.
   - All images are deleted.

Returning to default settings (Reset)

Camera settings can be easily restored to default settings.

1 Select [Reset/Myset] in 📷 Shooting Menu 1.

2 Select [Reset] and press **OK**.
- 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 **OK**.
  ☞ "Menu directory" (P. 138)



3 Select [Yes] and press **OK**.

Registering Favorites settings (Myset)

Saving Myset

With the exception of shooting mode, current camera settings can be saved to any of four settings banks ("Myset"). 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 ▷.
- Selecting [Set] saves current settings, overwriting the settings currently in the bank.
- To cancel the registration, select [Reset].

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

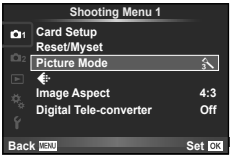
3 Select [Yes] and press **OK**.

- The shooting mode does not change when MySet is executed from a menu.
- If you assign MySet to a button, you can execute it by simply pressing the button. With this operation, the shooting mode will change to the stored mode.
- You can also assign Myset settings to the mode dial. ☞ "Mode Dial Function" (P. 89)

Processing options (Picture Mode)

You can make individual adjustments to contrast, sharpness and other parameters in [Picture Mode] (P. 61) settings. Changes to each picture mode are stored separately.

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



2 Select an option with △▽ and press **OK**.

3 Press ▷ to display settings for the selected option.

		1	2–5	M	C
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.	✔	—	—	✔
Color Filter (Monochrome)	Creates a black and white image. The filter color is brightened and the complementary color is darkened.	—	—	✔	✔
N:None	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.				

		1	2–5	M	C
Monochrome Color	Colors the black and white image.	—	—	✔	✔
N:Normal	Creates a normal black and white image.				
S:Sepia	Sepia				
B:Blue	Bluish				
P:Purple	Purplish				
G:Green	Greenish				

Tips

- You can reduce the number of picture mode options displayed in the menu.
  ☞ "Picture Mode Settings" (P. 90)
- You can also select art filter types and effects.

- 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. ☞ "Selecting image quality (still image quality mode)" (P. 56), "Selecting image quality (movie image quality mode)" (P. 57)

- You can change the JPEG image size and compression ratio combination, and [M] and [S] pixel counts. [◀⁝· Set], [Pixel Count] ☞ "Combinations of movie image sizes and compression rates" (P. 106)
- You can change the shooting time of movie clips. ☞ "Selecting image quality (movie image quality mode)" (P. 57)

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 1 Shooting Menu 1.

2 The view in the monitor will be enlarged by a factor of two.

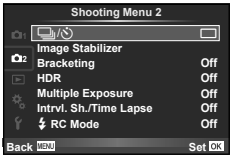
- The subject will be recorded as it appears in the monitor.

- Digital zoom is not available with multiple exposures, in ▦ mode, or when 3D, ▭, ▭, ▭, 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.

Setting the self timer (▭/⏱)

You can customize the self timer operation.

1 Select [▭/⏱] in 2 Shooting Menu 2.



2 Select [⏱C] (custom) and press ▷.

3 Use △▽ to select the item and press ▷.

- Use △▽ to select the setting and press **OK**.

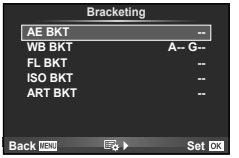
Number of Frames	Sets the number of frames to be shot.
⏱ Timer	Sets the time after the shutter button is pressed until the picture is taken.
Interval Length	Sets the shooting interval for the second and subsequent frames.
Every Frame AF	Sets whether or not to perform AF right before a picture is taken with self timer.

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 2 Shooting Menu 2 and press **OK**.

2 After selecting [On], press ▷ and select a bracket shooting type.



3 Press ▷, select settings for parameters such as the number of shots, and then press the **OK** button.

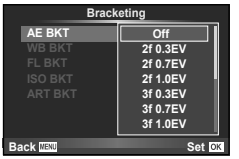
- Continue to press the **OK** button until you return to the screen in step 1.
- If you select [Off] in step 2, bracket shooting settings will be saved and you can shoot normally.
- When you select bracket shooting, BKT appears on the screen.

- Cannot be used during HDR photography.
- Cannot be used at the same time as time lapse shooting.
- You cannot shoot during bracket shooting if there is not enough space on the camera's memory card for the selected number of frames.
- You can switch the bracket shooting [On] or [Off] using the button assigned with [Button Function] (P. 98).

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 BKT 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]. ☞ "EV Step" (P. 91)



WB BKT (WB bracketing)

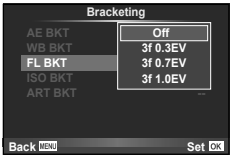
Three images with different white balances (adjusted in specified color directions) are automatically created from one shot, starting with the value currently selected for white balance. WB bracketing is available in **P**, **A**, **S** and **M** modes.

- 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.

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.

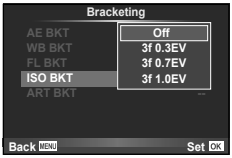
- The BKT indicator turns green during bracketing.
- The size of the bracketing increment changes with the value selected for [EV Step]. ☞ "EV Step" (P. 91)



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.

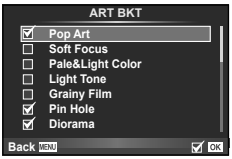
- The size of the bracketing increment does not change with the value selected for [ISO Step]. ☞ "Using the custom menus" (P. 88)
- Bracketing is performed regardless of the upper limit set with [ISO-Auto Set]. ☞ "ISO-Auto Set" (P. 92)



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.

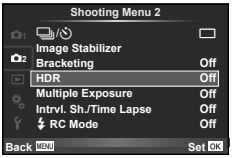
- Recording may take some time.
- ART BKT cannot be combined with WB BKT or ISO BKT.



Taking HDR (High Dynamic Range) images

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). In mode **M**, exposure can be adjusted as desired for HDR photography.

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



2 Select a type of HDR photography and press the **OK** 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. 98), you can press the button to call up the HDR shooting screen.

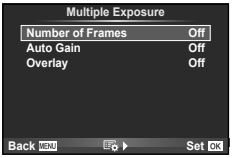
- If you shoot with a slower shutter speed, there may be more noticeable noise.
- Attach the camera to a tripod or other stabilizing item and then shoot.
- The image displayed on the monitor or in the viewfinder while shooting will differ from the HDR-processed image.
- In the case of [HDR1] and [HDR2], 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. RAW images are recorded with an exposure of –0.5 EV.
- 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 2 Shooting Menu 2.

2 Adjust settings.



Number of Frames	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

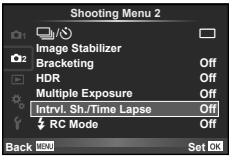
- To overlay 3 or more frames: Select RAW for [] and use the [Overlay] option to make repeated multiple exposures.
- For more information on overlaying RAW images: ☞ “Image overlay” (P. 86)

- 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 Select [Intrvl. Sh./Time Lapse] in 2 Shooting Menu 2.



2 Select [On], press ▷ and make the following settings.

Numeber of Frames	Sets the number of frames to be shot.
Start Waiting Time	Sets waiting time before starting to shot.
Interval Length	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.

3 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.

- 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. 127)

Using the playback menu

Playback Menu

(P. 68)
(P. 84)
Edit (P. 84)
Print Order (P. 121)
Reset Protect (P. 86)
Connection to Smartphone (P. 111)

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 **OK**.

2 Use △▽ to select [Sel. Image] and press **OK**.

3 Use ◁▷ to select the image to be edited and press **OK**.

- [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 **OK**.

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. After changing the settings, press ⊙ to see them reflected on the screen.
	Custom2	
	ART BKT	The image is edited using settings for the selected art filter.

JPEG Edit	Choose from the following options: [Shadow Adj]: Brightens a dark backlit subject. [Redeye Fix]: Reduces the red-eye phenomenon during flash shooting. [⊿]: Use the control dial (◎) to choose the size of the crop and △▽◁▷ to specify the crop position. [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 △▽◁▷ to specify the trimming position. [Black & White]: Creates black and white images. [Sepia]: Creates sepia-toned images. [Saturation]: Sets the color depth. Adjust the color saturation checking the picture on the screen. [⊠]: 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. [e-Portrait]: Makes skin look smooth and translucent. You may not be able to compensate depending on the image if face detection fails.

5 When the settings are complete, press **OK**.

- The settings will be applied to the image.

6 Select [Yes] and press **OK**.

- The edited image is stored in the card.

- 3D photos, movies, and temporarily saved files for PHOTO STORY 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

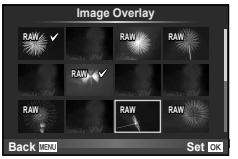
Up to 3 frames of RAW images taken with the camera can be overlaid and saved as a separate image.
The image is saved with the record mode set at the time the image is saved. (If [RAW] is selected, the copy will be saved in [LN+RAW] format.)

1 Select [Edit] in the ▶ Playback Menu and press **OK**.

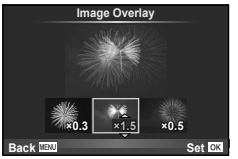
2 Use △▽ to select [Image Overlay] and press **OK**.

3 Select the number of images in the overlay and press **OK**.

4 Use △▽◁▷ 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 ◁▷ to select an image and use △▽ to adjust gain.
- Gain can be adjusted in the range 0.1–2.0. Check the results in the monitor.



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

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 30 sec. long) to the current photograph.
This is the same function as [🎙] during playback. (P. 70)

Canceling all protections

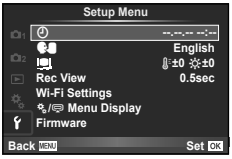
This function lets you cancel the protection of several images at one time.

1 Select [Reset Protect] in the ▶ Playback Menu.

2 Select [Yes] and press **OK**.

Using the setup menu

Use the Setup Menu to set the basic camera functions.



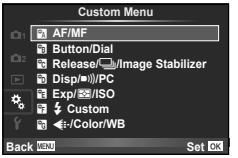
Option	Description	☞
(Date/time setting)	Set the camera clock.	17
(Changing the display language)	You can change the language used for the on-screen display and error messages from English to another language.	—
(Monitor brightness adjustment)	You can adjust the brightness and color temperature of the monitor. Color temperature adjustment will affect only the monitor display during playback. Use ◁▷ to highlight (color temperature) or (brightness) and △▽ 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.	111
/ Menu Display	Choose whether to display the custom menus or accessory port 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

- A AF/MF (P. 88)
- B Button/Dial (P. 89)
- C Release/▭/Image Stabilizer (P. 89)
- D Disp/■))/PC (P. 90)
- E Exp/±/ISO (P. 91)
- F ⚡ Custom (P. 92)
- G ◀⁝-/Color/WB (P. 93)
- H Record/Erase (P. 94)
- I Movie (P. 95)
- J 📷 Utility (P. 96)



A AF/MF

MENU ➜ ⚙ ➜ A

Option	Description	☞
AF Mode	Choose the AF mode. You can set separate focusing methods for still photography mode and 🎥 mode.	49
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 [Off], the focus position of the lens is not reset even when the power is turned off. When set to [On], the focus of power zoom lenses is also reset.	—
Bulb/Time Focusing	You can change the focus position during exposure by using manual focus (MF). When set to [Off], rotation of the focus ring is disabled.	—
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.	97
[▪▪▪] Set Home	Choose the AF target position that will be saved as the home position. HP appears in the AF target selection display while you choose a home position.	—
AF Illuminator	Select [Off] to disable the AF illuminator.	—
☺ Face Priority	You can select the face priority or eye priority AF mode.	47
AF Area Pointer	If you select [Off], the AF target frame will not be displayed during confirmation.	—

Button/Dial

MENU ➜ ⚙ ➜ B

Option	Description	☞
Button Function	Choose the function assigned to the selected button. [Fn Function], [Q Function], [◉ Function], [▷ Function], [▽ Function], [⊞ Function], [L.Fn Function]	98
Dial Function	You can change the function of the control dial (◎). **P** — ☒ / **Ps** **A** — Aperture value / ☒ **S** — Shutter speed / ☒ **M** — Shutter speed / Aperture value ▶ — [Prev/Next] / [▦ / Magnify] In **P**, **A**, **S**, and **M** modes, the roles played before and after ☒ button is pressed are reversed.	—
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	You can assign registered Myset settings to any position on the mode dial.	—

Release/▭/Image Stabilizer

MENU ➜ ⚙ ➜ C

Option	Description	☞
RIs Priority S **RIs Priority C**	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. 49) and C-AF (P. 49) modes.	—
▭ L fps **▭ H fps**	Choose the frame advance rates for [▭L] and [▭H]. Figures are the approximate maximums.	54
▭ Image Stabilization	Activates/deactivates image stabilization for continuous shooting.	—
Half Way RIs With IS	When set to [Off], the IS (Image Stabilization) function while the shutter button is pressed halfway will not be activated.	—
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. • This option has no effect on lenses that are equipped with an image stabilization switch.	—
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.

Disp/■))/PC

MENU ➜ ⚙ ➜ Disp

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.	100
Video Out	Choose the video standard ([NTSC] or [PAL]) used in your country or region.	100
Control Settings	Choose the controls displayed in each shooting mode. Press the **INFO** button to switch the screen contents.	102
/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, “My Clips”, and calendar playback.	105, 106
Displayed Grid	Select [▦], [⊞], [⊞], [⊠] or [▭] 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.	20
Live View Boost	Shoot while checking the subject even under low-light conditions. If [On] is selected, prioritize image visibility in dark conditions. This will make the response to button operations on the camera slower.	—
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.	—

Control Settings

Controls	Shooting mode			
	iAUTO	P/A/S/M	ART	SCN
Live Control (P. 44)	✓	✓	✓	✓
Live SCP (P. 103)	✓	✓	✓	✓
Live Guide (P. 22)	✓	–	–	–
Art Menu	–	–	✓	–
Scene Menu	–	–	–	✓

Disp/■))/PC

MENU ➜ ⚙ ➜ Disp

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.	48
Lock	If [On] is selected, the preview switches between lock and release every time the button registered for preview is pressed.	—
▶ Close Up Mode	[mode1]: Press 🔍 to zoom in (to a maximum of 14×) and press ▦ to zoom out. [mode2]: Press 🔍 to display the zoom frame for the specified zoom ratio. Press 🔍 again to zoom in.	—
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.	—
■)) (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.	—

Exp/⊡/ISO

MENU ➜ ⚙ ➜ Exp

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. • After shooting, processing time takes about the same amount of time as shooting time. • [Off] is selected automatically during sequential shooting. • This function may not work effectively with some shooting conditions or subjects.	33
Noise Filter	Choose the amount of noise reduction performed at high ISO sensitivities.	—
ISO	Set ISO sensitivity.	51
ISO Step	Select the increments available for choosing ISO sensitivity.	—

Exp/ /ISO

MENU ➔ ⚙ ➔

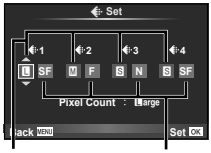
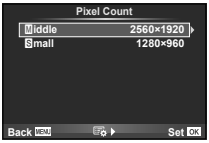
Option	Description	☞
ISO-Auto Set	Choose the upper limit and default value used for ISO sensitivity when [Auto] is selected for ISO. [High Limit]: Choose the upper limit for auto ISO sensitivity selection. [Default]: Choose the default value for auto ISO sensitivity selection.	—
ISO-Auto	Choose the shooting 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.	50
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. Choose 0 seconds when you want to reduce slight blurring due to shutter operation. It is also useful for sequential shooting (P. 54) and self timer photography (P. 54). However, sequential shooting is not available when this setting is set to 0 seconds.	—
Composite Settings	Set an exposure time to be the reference in composite photography (P. 34).	—

Custom

MENU ➔ ⚙ ➔

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], the exposure compensation value is added to the flash compensation value.	45, 60

🎨 ◀⁝-/Color/WB

Option	Description	☞
◀⁝ Set	You can select the JPEG image quality mode from combinations of three image sizes and four compression rates. **1)** Use ◁▷ to select a combination ([◀⁝-1] – [◀⁝-4]) and use △ ▽ to change. **2)** Press **OK**.  Image size Compression rate	56
Pixel Count	Choose the pixel count for [M]- and [S]-size images. **1)** Select [Middle] or [Small] and press ▷. **2)** Choose a pixel count and press **OK**.  	56
Shading Comp.	Choose [On] to correct peripheral illumination according to the type of lens. • Compensation is not available for teleconverters or extension tubes. • Noise may be visible at the edges of photographs taken at high ISO sensitivities.	—
WB	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 fine-tune each setting from White balance compensation on the LV super control panel (P. 103).	52
All WB±	[All Set]: Use the same white balance compensation in all modes except [CWB]. [All Reset]: Set white balance compensation for all modes except [CWB] to 0.	—
WB AUTO Keep Warm Color	Select [Off] to eliminate “warm” colors from pictures taken under incandescent lighting.	—
⚡+WB	Adjust white balance for use with a flash.	—
Color Space	You can select how colors are reproduced on the monitor or printer.	—

Record/Erase

MENU ➜ ⚙ ➜ 🖼

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. 69). [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. 73) is selected.	56
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. **1)** Highlight a character ① and press **OK** to add the highlighted character to the name ②. **2)** Repeat Step 1 to complete the name, then highlight [END] and press **OK**. • To delete a character, press the **INFO** button to place the cursor in the name area ②, highlight the character, and press 🗑. 	—

* 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.	37
Movie 🎤	Choose [Off] to record silent movies. This option can also be selected using the live control.	62
Recording Volume	Choose the sensitivity of the camera's internal microphone. Adjust the sensitivity using △▽ while checking the peak sound level picked up by the microphone over the previous few seconds.	—
Volume Limiter	If [On] is selected, the volume is automatically regulated when the volume picked up by the microphone is louder than normal.	—
Wind Noise Reduction	Reduce wind noise during recording.	—
Movie Effect	Choose [On] to enable movie effects in mode.	37
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. • 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. • If the record mode for the movie is Motion JPEG (HD or SD), the camera is set to mode2.	38

Utility

MENU ➜ ⚙ ➜ J

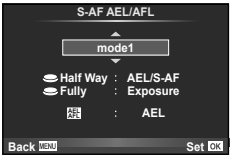
Option	Description	☞
Pixel Mapping	The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions.	133
Exposure Shift	Adjust correct exposure separately for each metering mode. • This reduces the number of exposure compensation options available in the selected direction. • The effects are not visible in the monitor. To make normal adjustments to the exposure, perform exposure compensation (P. 45).	—
Warning Level	Choose the battery level at which the warning is displayed.	16
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 with the zoom ring.	—

* 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				AEL/AFL 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. 46)
Peaking	Displays clearly defined outlines with edge enhancement. You can select the enhancement color. ☞ [Peaking Settings] (P. 91)

- [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. 98).
- When Peaking is in use, the edges of small subjects tend to be enhanced more strongly. This is no guarantee of accurate focusing.

Assigning functions to buttons (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] / [🔍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.

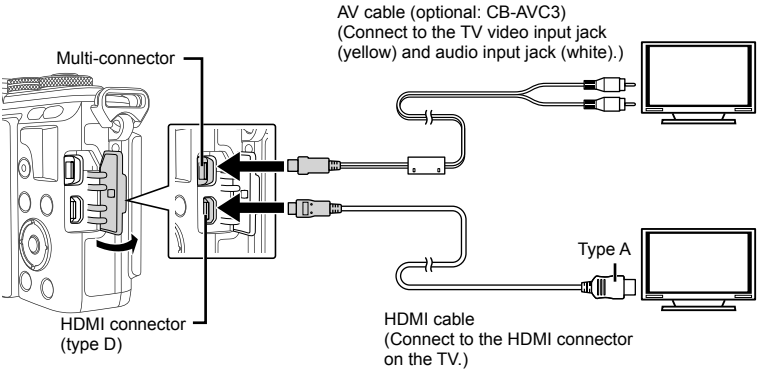
	Adjust exposure compensation.
ISO	Adjust ISO sensitivity.
WB	Adjust white balance.
AEL/AFL	AE lock or AF lock. The function changes according to the [AEL/AFL] setting. When AEL is selected, press the button once to lock the exposure and display AEL on the monitor. Press the button again to cancel the lock.
◉ REC	Press the button to record a movie.
(Preview)	Aperture is stopped down to the selected value while the button is pressed. If [On] is selected for [Lock] in Custom Menu, the aperture is held at the selected value even when releasing the button.
(One-touch white balance)	The camera measures white balance when the button is pressed (P. 53).
[▪▪▪] (AF area)	Choose the AF target.
[▪▪▪] Home	Pressing the button selects the AF target position saved with [▪▪▪ Set Home] (P. 88). Press the button again to return to previous 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. The shooting mode will change regardless of the position of the mode dial.
	Turn the monitor backlight on and off.
/ (Underwater wide/underwater macro)	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. Hold down this button and rotate the control dial to change the setting.
BKT	Turns on BKT shooting using stored settings. Hold down this button and rotate the control dial to change the setting.
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.

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. 90).



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.

- 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. 90).

- 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. 90)

- 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 (Control Settings)

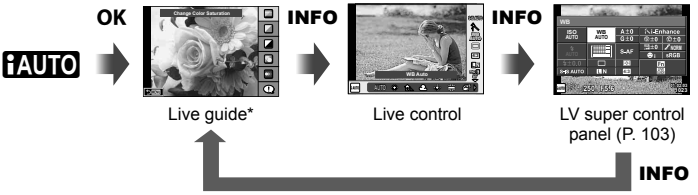
MENU ➜ ⚙ ➜ ➜ [Control Settings]

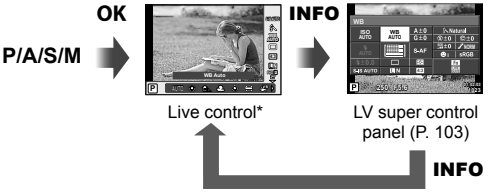
Sets whether or not to display control panels for option selection in each shooting mode.
In each shooting mode, press **OK** to insert a check in the control panel you want to display.

How to display control panels

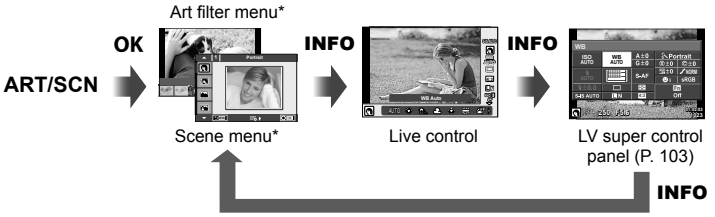
- If multiple control panels have been selected (☑) for display, press the **OK** button to display one of the control panels, and then press the **INFO** button to switch between panels.

Example: Live control and LV super control panel selected (☑)





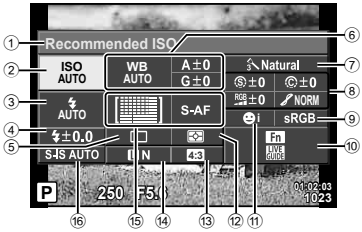
Example: Art filter menu or scene menu and live control/LV super control panel selected (☑)



* At default setting, only this control panel is set to display. The control panel display cannot be switched even when you press the **INFO** button.

LV super control panel

The LV super control panel displays the current status of the shooting settings. Touch or use the arrow pad to select options and change the settings.
LV super control panel is not displayed at default settings. To use it, select (☑) [Live SCP] in 📷Control Settings (P. 90).



Settings that can be modified using LV super control panel

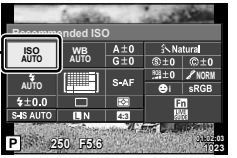
① Currently selected option
② ISO sensitivity ..... P. 51
③ Flash mode ..... P. 58
④ Flash compensation value ..... P. 60
⑤ Sequential shooting/Self-timer ..... P. 54
⑥ White balance ..... P. 52
White balance compensation
⑦ Picture mode ..... P. 61
⑧ Sharpness Ⓢ ..... P. 75
Contrast Ⓒ ..... P. 75
Saturation RGB ..... P. 75
Gradation ..... P. 75
Color Filter Ⓕ ..... P. 75
Monochrome Color Ⓣ ..... P. 76
⑨ Color space ..... P. 93
⑩ Button function assignment ..... P. 98
⑪ Face priority ..... P. 47
⑫ Metering mode ..... P. 50
⑬ Aspect ratio ..... P. 56
⑭ Record mode ..... P. 56, 57
⑮ AF mode ..... P. 49
AF target ..... P. 46
⑯ Image stabilizer ..... P. 53

- Not displayed in movie mode and PHOTO STORY mode.

1 Select [Live SCP] for each mode in Control Settings (P. 90) beforehand.

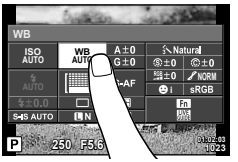
2 Press the **OK** button to display the live control and press the **INFO** button.

- The LV super control panel is displayed.
- Each time you press the **INFO** button, the controls display changes.
- If you want to use the LV super control panel as the main control screen, switch off [Live control] in Control Settings (P. 90). You can now use the **OK** button to display the LV super control panel.



3 Tap the desired item.

- The item will be highlighted.



4 Press the **OK** button, and select a settings option.

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.

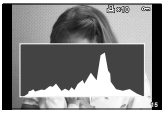
Highlight & Shadow display

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. 90)

▶ 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

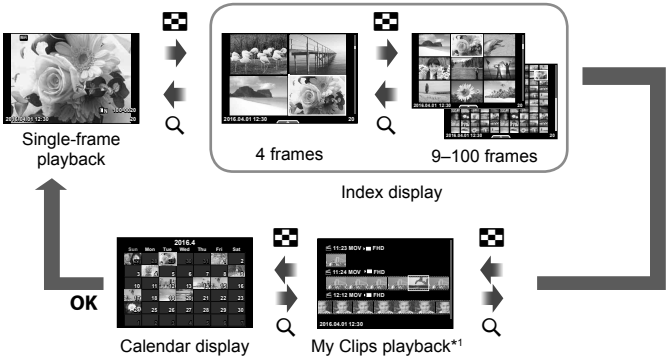
Light box display

[▶ Close Up Mode] in the custom menu must be set to [mode2] to show this display. Compare two images side-by-side. You can move the selected image on the right to the reference image on the left by pressing **OK**.

- The base image is displayed on the right. Using the control dial (⊙) or ◁▷ to select an image and pressing **OK** moves that image to the left screen. 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 **OK**.
- To zoom in, choose the image to be zoomed by using the 🔍 button, press the **INFO** button, and then use △▽ or the control dial (⊙) to change the zoom ratio.
- Use △▽◁▷ to view other areas of the picture. The image to be zoomed changes each time 🔍 is pressed.

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 pressing the button during playback.



*1 If one or more My Clips have been created, it will be displayed here (P. 39).

Shutter speeds when the flash fires automatically

MENU ➜ ⚙ ➜ F ➜ [⚡ 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			
S	The set shutter speed		No lower limit
M			

* 1/200 seconds when using a separately sold external flash.

Combinations of movie image sizes and compression rates

MENU ➜ ⚙ ➜ G ➜ [Set]

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

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

* Default

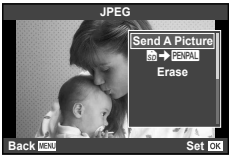
Accessory Port Menu

Using OLYMPUS PENPAL

The optional OLYMPUS PENPAL can be used to upload pictures to, and receive pictures from, Bluetooth devices or other cameras connected to an OLYMPUS PENPAL. Visit the OLYMPUS website for more information on Bluetooth devices. Display the Accessory Port Menu in advance (P. 87).

■ Sending images

Resize and upload JPEG images to another device. Before sending images, make sure that the receiving device is set to the mode for receiving data.



1 Display the picture you wish to send full frame and press **OK**.

2 Select [Send A Picture] and press **OK**.
- Select [Search] and press **OK** in the next dialog. The camera searches for and displays Bluetooth devices in range.

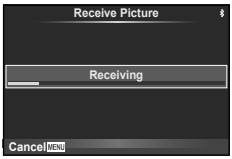
3 Select the destination and press **OK**.
- The image will be uploaded to the receiving device.
- If prompted to provide a PIN code, enter 0000 and press **OK**.

■ Receiving images/adding a host

Connect to the transmitting device and download JPEG images.

1 Select [OLYMPUS PENPAL Share] in Accessory Port Menu (P. 107).

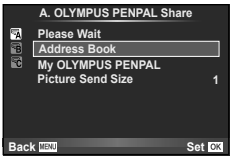
2 Select [Please Wait] and press **OK**.
- Perform operations for sending images on the sending device.
- Transmission will start and a [Receive Picture Request] dialog will be displayed.



3 Select [Accept] and press **OK**.
- The image will be downloaded to the camera.
- If prompted to provide a PIN code, enter 0000 and press **OK**.

■ Editing the address book

The OLYMPUS PENPAL can store host information. You can assign names to hosts or delete host information.



1 Select [OLYMPUS PENPAL Share] in Accessory Port Menu (P. 107).

2 Select [Address Book] and press **OK**.

3 Select [Address List] and press **OK**.

- The names of existing hosts are listed.

4 Select the host you wish to edit and press **OK**.

Deleting hosts

Select [Yes] and press **OK**.

Editing host information

Press **OK** to display host information. To change the host name, press **OK** again and edit the current name in the rename dialog.

■ Creating albums

Your favorite JPEG pictures can be resized and copied to an OLYMPUS PENPAL.

1 Display the picture you wish to copy full frame and press **OK**.

2 Select [SD → PENPAL] and press **OK**.

- To copy images from an OLYMPUS PENPAL to the memory card, select [PENPAL → SD] and press **OK**.

- The OLYMPUS PENPAL can be used only in the region in which it was purchased. Depending on the areas, the usage may infringe the wave regulations and may be subject to its penalty.

OLYMPUS PENPAL Share

MENU → → →

Option	Description	☞
Please Wait	Receive images and add hosts to the address book.	107
Address Book	[Address List]: View the hosts that have been saved to the address book. [New Pairing]: Add a host to the address book. [Search Timer]: Choose how long the camera searches for a host.	108

OLYMPUS PENPAL Share

MENU ➜ ➜ ➜

Option	Description	☞
My OLYMPUS PENPAL	Display information for your OLYMPUS PENPAL, including the name, address, and supported services. Press **OK** to edit the device name.	—
Picture Send Size	Choose the size at which images are transmitted. [Size 1: Small]: Images are sent at a size equivalent to 640 × 480. [Size 2: Large]: Images are sent at a size equivalent to 1920 × 1440. [Size 3: Medium]: Images are sent at a size equivalent to 1280 × 960.	107

OLYMPUS PENPAL Album

MENU ➜ ➜ ➜

Option	Description	☞
Copy All	All images and sound files are copied between the SD card and OLYMPUS PENPAL. Copied images are resized according to the option selected for picture copy size. Temporarily saved files for PHOTO STORY cannot be copied.	108
Reset Protect	Remove protection from all pictures in the OLYMPUS PENPAL album.	108
Album Mem. Usage	Show the number of pictures currently in the album and the number of additional pictures that can be stored at [Size 2: Medium].	108
Album Mem. Setup	[All Erase]: Delete all pictures in the album. [Format Album]: Format the album.	108
Picture Copy Size	Choose the size at which images are copied. [Size 1: Large]: Copied images are not resized. [Size 2: Medium]: Images are copied at a size equivalent to 1920 × 1440.	108

Electronic Viewfinder

MENU ➜ ➜ ➜

Option	Description	☞
EVF Adjust	Adjust the brightness and the color temperature of optional external viewfinders. The selected color temperature is also used in the monitor during playback. Use ◁▷ to select color temperature (🌡) or brightness (☼) and use △▽ to choose from values between [+7] and [–7]. 	—
EVF Auto Switch	Sets whether to automatically switch the display away from the monitor when using the VF-4 external electronic viewfinder. When set to [Off], pressing the button on the external viewfinder switches the display between the viewfinder and the monitor. When set to [On], the display automatically switches to VF-4 when you look through it. Automatic switching is disabled while the monitor is pulled out.	—

5 Connecting the camera to a smartphone

By connecting to a smartphone through this camera's wireless LAN function and using the specified app, you can enjoy even more features during and after shooting.

Things you can do with the specified app, OLYMPUS Image Share (OI.Share)

- Camera image transfer to a smartphone
  You can load images in the camera to a smartphone.
- Remote shooting from a smartphone
  You can remotely operate the camera and shoot using a smartphone.
- Beautiful image processing
  You can apply art filters and add stamps on images loaded to a smartphone.
- Addition of GPS tags to camera images
  You can add GPS tags to images simply by transferring the GPS log saved on the smartphone to the camera.

For details, visit the address below:
http://oishare.olympus-imaging.com/

- Before using the wireless LAN function, read "Using the wireless LAN function" (P. 150).
- 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.
- The wireless LAN antenna is contained in the camera grip. Keep the antenna away from metal objects whenever possible.
- 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.

Connecting to a smartphone

Connect to a smartphone. Start the OI.Share App installed on your smartphone.

1 Select [Connection to Smartphone] in the ▶ Playback Menu and press **OK**.

- You can also connect by touching Wi-Fi in the monitor.

2 Following the guide displayed on the monitor, proceed with the Wi-Fi settings.

- The SSID, password and QR code are displayed on the monitor.

3 Start OI.Share on your smartphone, and read the QR code displayed on the camera monitor.

- Connection will be performed automatically.
- When you connect to your smartphone, the time and date on the camera will be matched to the time on your smartphone.
- If you are unable to read the QR code, enter the SSID and password in the Wi-Fi settings of your smartphone to connect. For how to access the Wi-Fi settings on your smartphone, please see your smartphone operating instructions.

4 To end the connection, press **MENU** on the camera or touch [End Wi-Fi] on the monitor screen.

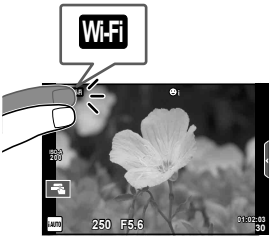
- You can also end the connection with OI.Share or by turning off your camera.
- The connection ends.

Transferring images to a smartphone

You can select images in the camera and load them to a smartphone. You can also use the camera to select images you want to share in advance. ☞ “Setting a transfer order on images (Share Order)” (P. 70)

1 Connect the camera to a smartphone (P. 110).

- You can also connect by touching Wi-Fi in the monitor.



2 Launch OI.Share and tap the Image Transfer button.

- The images in the camera are displayed in a list.

3 Select the pictures you want to transfer and tap the Save button.

- When saving is completed, you can turn off the camera from the smartphone.

Shooting remotely with a smartphone

You can shoot remotely by operating the camera with a smartphone.
This is available only in [Private].

1 Start [Connection to Smartphone] on the camera.

- You can also connect by touching Wi-Fi in the monitor.

2 Launch OI.Share and tap the Remote button.

3 Tap the shutter button to shoot.

- The image taken is saved on the memory card in the camera.

- Available shooting options are partially limited.

Adding position information to images

You can add GPS tags to images that were taken while the GPS log was saving by transferring the GPS log saved on the smartphone to the camera.
This is available only in [Private].

1 Before beginning to shoot, launch OI.Share and turn on the switch on the Add Location button to begin saving the GPS log.

- Before beginning to save the GPS log, the camera must be connected to OI.Share once to synchronize the time.
- You can use the phone or other apps while the GPS log is saving. Do not terminate OI.Share.

2 When shooting is complete, turn off the switch on the Add Location button. Saving the GPS log is complete.

3 Start [Connection to Smartphone] on the camera.

- You can also connect by touching Wi-Fi in the monitor.

4 Transfer the saved GPS log to the camera using OI.Share.

- GPS tags are added to the images in the memory card based on the transferred GPS log.
- is displayed on images to which position information has been added.

- Addition of location information can only be used with smartphones that have a GPS function.
- Position information cannot be added to movies.

Changing the connection method

There are two ways to connect to a smartphone. With [Private] the same settings are used to connect every time. With [One-Time] different settings are used each time. You may find it convenient to use [Private] when connecting to your own smartphone and [One-Time] when transferring images to a friend's smartphone etc.
The default setting is [Private].

1. Select [Wi-Fi Settings] in the 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 to one smartphone (connects automatically using the settings after the initial connection).
   - [One-Time]: Connect to multiple smartphones (connects using different connection settings each time). Only image transfer function is available. You can view only images that are set for share order using the camera.
   - [Select]: Select which method to use each time.
   - [Off]: The Wi-Fi function is turned off.

Changing the password

Change the password used for [Private].

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

Cancelling a share order

Cancel share orders that are set on images.

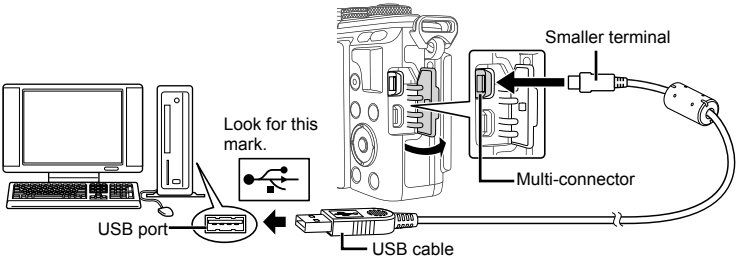
1. Select [Wi-Fi Settings] in the ᚠ Setup Menu and press **OK**.
2. Select [Reset share Order] and press ▷.
3. Select [Yes] and press **OK**.

Initializing wireless LAN settings

Initializes content of [Wi-Fi Settings].

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

Connecting the camera to a computer



- 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.
- 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. 91) in the camera custom menus.

Copying pictures to a computer

The following operating systems are compatible with the USB connection:

Windows: **Windows Vista SP2/Windows 7 SP1/Windows 8/ Windows 8.1/Windows 10**

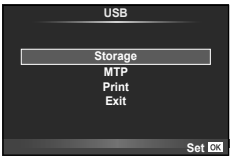
Macintosh: **Mac OS X v10.8 - v10.11**

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 △ ▽ to select [Storage]. Press **OK**.

4 The computer recognizes the camera as a new device.

- Select [MTP] in Step 3 to use Windows Photo Gallery.
- 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. 91) in the camera custom menus.

Installing the PC software

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.

- You can also download OLYMPUS Viewer 3 from “http://support.olympus-imaging.com/ov3download/”. You must enter the product’s serial number to download OLYMPUS Viewer 3.

■ Windows

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

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

- If the “Setup” dialog is not displayed, open CD-ROM (OLYMPUS Setup) in Windows Explorer and double-click “LAUNCHER.EXE”.
- If a “User Account Control” dialog is displayed, click “Yes” or “Continue”.

2 Connect the camera to your computer.

- 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.

Operating Environment

Operating System	Windows Vista SP2/Windows 7 SP1/Windows 8/Windows 8.1/ Windows 10
Processor	Core2Duo 2.13 GHz or better required
RAM	2 GB or more
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 × 768 pixels or more Minimum 65,536 colors (16,770,000 colors recommended)

- Click the “OLYMPUS Viewer 3” button and follow the on-screen instructions to install the software.
- For details on how to use the software, please see the help function in the software.
- The foregoing are the minimum system requirements. Some settings may require better specs. See the README for details.

■ Macintosh

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

- The disk contents should automatically be displayed in the Finder. If they are not, double-click the CD-ROM 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

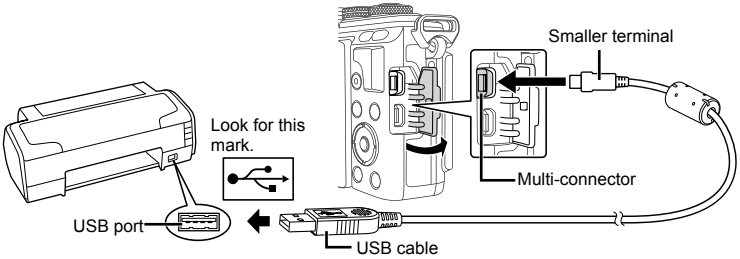
Operating System	Mac OS X v10.8–v10.11
Processor	Core2Duo 2 GHz or better required
RAM	2 GB or more
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 × 768 pixels or more Minimum 32,000 colors (16,770,000 colors recommended)

- 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.
- The foregoing are the minimum system requirements. Some settings may require better specs. See the README for details.

Direct printing (PictBridge)

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

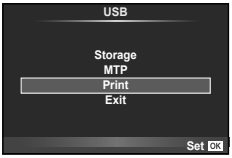
1 Connect the camera to the printer using the supplied USB cable and turn the camera on.



- 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. 91) in the camera custom menus.

2 Use △▽ 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. 120).

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

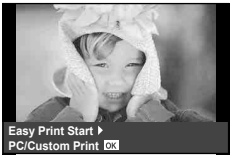
Easy printing

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

1 Use ◁▷ to display the pictures you want to print on the camera.

2 Press ▷.

- The picture selection screen appears when printing is completed. To print another picture, use ◁▷ to select the image and press **OK**.
- To exit, unplug the USB cable from the camera while the picture selection screen is displayed.



Custom printing

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

- 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. 91) in the camera custom menus.

2 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 (▲)	Applies print reservation to the currently displayed picture. If you want to apply reservation to other pictures after applying [Single Print], use ◁▷ to select them.
More (▼)	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 control dial (◎) to choose the crop size and △▽◁▷ to specify the crop position.

3 Once you have set the pictures for printing and printing data, select [Print], then press **OK**.

- To stop and cancel printing, press **OK**. To resume printing, select [Continue].

■ Cancelling printing

To cancel printing, highlight [Cancel] and press **OK**. 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

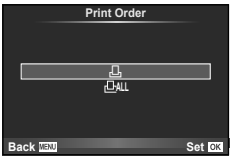
1 Press **OK** during playback and select [⎙].

2 Select [⎙] or [⎙ALL] and press **OK**.

Individual picture

Press ◁▷ to select the frame that you want to set as print reservation, then press △▽ to set the number of prints.

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



All pictures

Select [⎙ALL] and press **OK**.

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.

- When printing images, the setting cannot be changed between the images.

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

- 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. 89) 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.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions "⚠ CAUTION" (P. 149).

Using your charger abroad

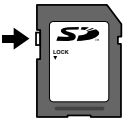
- The charger can be used in most home electrical sources within the range of 100 V to 240 V AC (50/60 Hz) around the world. However, depending on the country or area you are in, the AC wall outlet may be shaped differently and the charger may require a plug adapter to match the wall outlet. For details, 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.



- 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. 96)
- 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.
- Failure may occur during My Clips shooting. Please turn off the card function in this case.
- Setting the SD card’s write protect switch to the “LOCK” position will restrict some functions such as clips shooting and playback.

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. 17.3	428
LSF		1/2.7	JPEG	Approx. 10.8	637
LF		1/4		Approx. 7.5	917
LN		1/8		Approx. 3.5	1984
LB		1/12		Approx. 2.4	2941
MSF	3200×2400	1/2.7		Approx. 5.6	1245
MF		1/4		Approx. 3.4	2051
MN		1/8		Approx. 1.7	4068
MB		1/12		Approx. 1.2	5954
MSF	2560×1920	1/2.7		Approx. 3.2	2160
MF		1/4		Approx. 2.2	3170
MN		1/8		Approx. 1.1	6259
MB		1/12		Approx. 0.8	9041
MSF	1920×1440	1/2.7		Approx. 1.8	3814
MF		1/4		Approx. 1.2	5548
MN		1/8		Approx. 0.6	10614
MB		1/12		Approx. 0.4	15258
MSF	1600×1200	1/2.7		Approx. 1.3	5425
MF		1/4		Approx. 0.9	7875
MN		1/8		Approx. 0.5	15258
MB		1/12		Approx. 0.4	20344
SSF	1280×960	1/2.7		Approx. 0.9	8137
SF		1/4		Approx. 0.6	11625
SN		1/8		Approx. 0.3	22193
SB		1/12		Approx. 0.3	30516
SSF	1024×768	1/2.7		Approx. 0.6	12206
SF		1/4		Approx. 0.4	17438
SN		1/8		Approx. 0.3	30516
SB		1/12		Approx. 0.2	40688
SSF	640×480	1/2.7		Approx. 0.3	27125
SF		1/4		Approx. 0.2	40688
SN		1/8		Approx. 0.2	61033
SB		1/12		Approx. 0.1	81377

*Assumes a 8GB SD card.

- 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.

Interchangeable lenses

Choose a lens according to the scene and your creative intent. Use lenses designed exclusively for the Micro Four Thirds system and bearing the M.ZUIKO DIGITAL label or the symbol shown at right. With an adapter, you can also use Four Thirds System and OM System lenses.

- When you attach or remove the body cap and lens from the camera, keep the lens mount on the camera pointed downward. This helps prevent dust and other foreign matter from getting inside the camera.
- Do not remove the body cap or attach the lens in dusty places.
- Do not point the lens attached to the camera toward the sun. This may cause the camera to malfunction or even ignite due to the magnifying effect of sunlight focusing through the lens.
- Be careful not to lose the body cap and rear cap.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached.

■ Lens and camera combinations

Lens	Camera	Attachment	AF	Metering
Micro Four Thirds system lens	Micro Four Thirds system camera	Yes	Yes	Yes
Four Thirds system lens		Attachment possible with mount adapter	Yes*1	Yes
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.

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.

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).

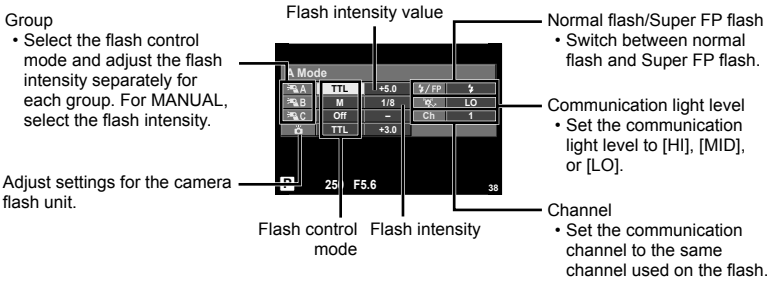
Wireless remote control flash photography

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.

1 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.

2 Select [On] for [⚡ RC Mode] in 📷2 Shooting Menu 2 (P. 73).
- The LV super control panel switches to RC mode.
- You can choose an LV 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 LV super control panel.

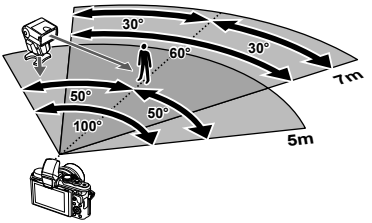


4 Attach the supplied flash unit and raise the flash head.

- 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.



- 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.

Electronic Viewfinder (VF-4)

The VF-4 electronic viewfinder switches on automatically when you look through it. While the viewfinder is on, the camera monitor display is switched off. You can select whether to automatically switch the display between the viewfinder and monitor using the menu settings. Note that menus and other settings information are still displayed on the camera monitor when the viewfinder is switched on. Refer to the documentation provided with the electronic viewfinder as well.

- Automatic switching is disabled while the monitor is pulled out.
- In the following situations, the viewfinder may not switch off automatically.
  When in sleep mode/when shooting using movie, 3D, multiple exposure, live bulb, live time etc./when the shutter button is pressed halfway
- The viewfinder may also fail to turn on automatically when viewed in certain situations, such as when wearing glasses, or under strong sunlight. Switch manually.

Principal Accessories

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. (P. 10)

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).

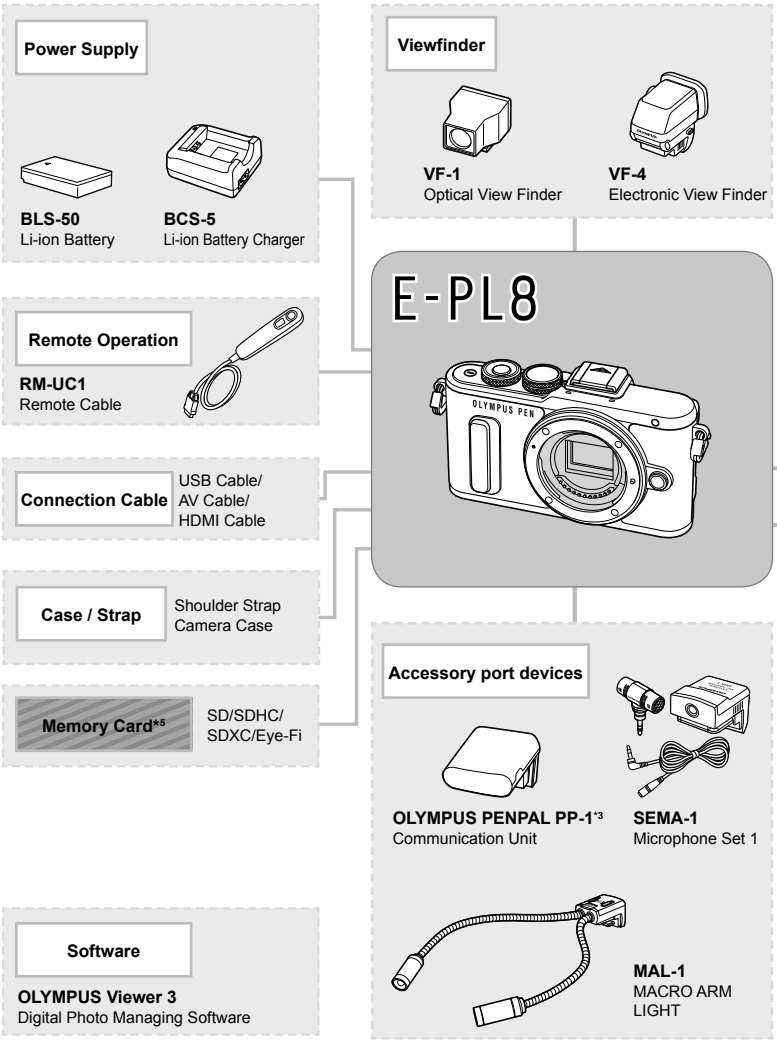
Macro arm light (MAL–1)

Use to illuminate subjects for macro photography, even at ranges at which vignetting would occur with the flash.

Microphone set (SEMA–1)

The microphone can be placed at a distance from the camera to avoid recording ambient sounds or wind noise. Third-party commercial microphones can also be used depending on your creative intent. We recommend that you use the supplied extension cord. (power supplied via ø3.5 mm stereo mini-plug)

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.
*3 The OLYMPUS PENPAL can be used only in the region in which it was purchased. Depending on the areas, the usage may infringe the wave regulations and may be subject to its penalty.

: E-PL8 compatible products

: Commercially available products

For the latest information, please visit the Olympus website.

Lens

M.ZUIKO DIGITAL ED 8mm f1.8 Fisheye PRO
M.ZUIKO DIGITAL ED 12mm f2.0
M.ZUIKO DIGITAL 17mm f1.8
M.ZUIKO DIGITAL 17mm f2.8
M.ZUIKO DIGITAL 25mm f1.8
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 7-14mm f2.8 PRO
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 f3.5-5.6 EZ
M.ZUIKO DIGITAL 14-42mm f3.5-5.6 II R
M.ZUIKO DIGITAL ED 14-150mm f4.0-5.6 II
M.ZUIKO DIGITAL ED 40-150mm f4.0-5.6 R
M.ZUIKO DIGITAL ED 40-150mm f2.8 PRO
M.ZUIKO DIGITAL ED 75-300mm f4.8-6.7 II
M.ZUIKO DIGITAL ED 300mm f4.0 IS PRO

Teleconverter MC-14*4

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

Four Thirds System Lenses

MF-2 *1
OM Adapter 2

OM System Lenses

Converter Lens*2

FCON-P01
Fisheye

WCON-P01
Wide

MCON-P01
Macro

MCON-P02
Macro

Flash

FL-14
Electronic Flash

FL-600R
Electronic Flash

FL-300R
Electronic Flash

SRF-11 Ring Flash Set

STF-22 Twin Flash Set

RF-11*2
Ring Flash

TF-22 *2
Twin Flash

FC-1 Macro Flash Controller

*4 Only available for ED 40-150mm f2.8 PRO/ED 300mm f4.0 IS PRO.
*5 Use the SD card with wireless LAN function or Eye-Fi card in compliance with the laws and regulations of the country where the camera is used.

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.

- 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. 96) tab J.

2 Press ▷, then press **OK**.

- The [Busy] bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.

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

Shooting tips and information

The camera does not turn on even when a battery is loaded

The battery is not fully charged

- Charge the battery 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. 91)
  If no operations are performed for a set time (about 5 minutes) 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.

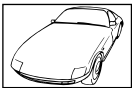
Unable to focus

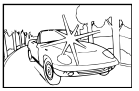
- The camera cannot focus on subjects that are too close to the camera or that are not suited to autofocus (the AF confirmation mark will blink in the monitor). Increase the distance to the subject or focus on a high contrast object at the same distance from the camera as your main subject, compose the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

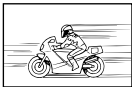

Subject with low contrast


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. 91)

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. 17)

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. 126)

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. 133)

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 [□H] 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. 124)
Card Full	• 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.	• Select [Clean Card], press **OK** and turn off the camera. Remove the card and wipe the metallic surface with a soft, dry cloth. • Select [Format] ▸ [Yes], and then press **OK** 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
℃/℉	The internal temperature of the camera has risen due to sequential shooting.	Turn off the camera and wait for the internal temperature to cool.
Internal camera temperature is too high. Please wait for cooling before camera use.		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. 15)
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.

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	☞
1	Card Setup			—				73
	Reset/Myset			—		✓		74
	Picture Mode			Natural	✓	✓	✓	61
		Still Picture		N	✓	✓	✓	56
		Movie		MOV FHD F	✓	✓	✓	57
	Image Aspect			4:3	✓	✓	✓	56
	Digital Tele-converter			Off	✓	✓	✓	76
2					✓	✓	✓	54, 77
	Image Stabilizer	Still Picture		S-I.S. Auto	✓	✓	✓	53
		Movie		Movie-I.S. On				
	Bracketing			Off	✓	✓	✓	78
		AE BKT		3f 1.0EV				
		WB BKT	A–B	—				79
			G–M					
		FL BKT		—				
		ISO BKT		—				
		ART BKT		—				
	HDR			Off	✓	✓	✓	80
	Multiple Exposure	Number of Frames		Off		✓	✓	81
		Auto Gain		Off				
		Overlay		Off				
	Intrvl. Sh./Time Lapse			Off		✓	✓	82
		Number of Frames		99				
		Start Waiting Time		00:00:01				
		Interval Length		00:00:01				
		Time Lapse Movie		Off				
	RC Mode			Off	✓	✓	✓	127

▶ Playback Menu

Tab	Function			Default	*1	*2	*3	☞
▶		Start		—				68
		BGM		Happy Days		✔	✔	
		Slide		All		✔	✔	
		Slide Interval		3sec		✔		
		Movie Interval		Short		✔		
				On		✔	✔	84
	Edit	Sel. Image	RAW Data Edit	—				84
			JPEG Edit	—				85
			🎙	—				86
		Image Overlay		—				86
	Print Order			—				121
	Reset Protect			—				86
	Connection to Smartphone			—				111

Setup Menu

Tab	Function		Default	*1	*2	*3	☞
			—				17
	*		—				87
			±0, ☼ ±0, Vivid		✔		87
	Rec View		0.5sec	✔	✔		87
	Wi-Fi Settings	Wi-Fi Connect Settings	Private		✔		114
		Private Password	—				
		Reset share Order	—				
		Reset Wi-Fi Settings	—				
	⚙/💬 Menu Display	⚙ Menu Display	On		✔		87
		💬 Menu Display	Off				
	Firmware		—				87

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

Custom Menu

Tab	Function		Default		*1	*2	*3	☞
	A AF/MF							
	AF Mode	Still Picture	S-AF		✔	✔	✔	88
		Movie	C-AF					
	Full-time AF		Off		✔	✔	✔	
	AEL/AFL		S-AF	mode1	✔	✔	✔	
			C-AF	mode2				
			MF	mode1				
	Reset Lens		On			✔	✔	
	Bulb/Time Focusing		On			✔	✔	
	Focus Ring		↻		✔	✔	✔	
	MF Assist	Magnify	Off		✔	✔		
		Peaking	Off		✔	✔		
	[•••] Set Home		⌨			✔	✔	
	AF Illuminator		On		✔	✔	✔	
	☺ Face Priority		☺		✔	✔		
	AF Area Pointer		On			✔	✔	
	B Button/Dial							
	Button Function	Fn Function	LIVE GUIDE		✔	✔		98
		Q Function	Q					
		◉ Function	◉REC					
		▷ Function	⚡					
		▽ Function	▭/⏱					
		⊞ Function	Direct Function					
		L-Fn Function	AF Stop					
	Dial Function	P	±☑		✔	✔		89
		A	FNo.					
		S	Shutter					
		M	Shutter					
		▶	Prev/Next					
	Dial Direction		Exposure	Dial1	✔	✔		
			Ps	Dial1				
	Mode Dial Function		Off			✔		
	C Release/▭/Image Stabilizer							
	RIs Priority S		Off		✔	✔	✔	89
	RIs Priority C		On		✔	✔	✔	
	▭ L fps		3.5 fps		✔	✔	✔	
	▭ H fps		8 fps		✔	✔	✔	
	▭ Image Stabilization		On			✔		
	Half Way RIs With IS		On			✔		
	Lens I.S. Priority		Off		✔	✔	✔	
	Release Lag-Time		Normal			✔		

Tab	Function		Default	*1	*2	*3	☞
⚙	Disp/■))/PC						
	HDMI	HDMI Out	1080i		✓		90
		HDMI Control	Off		✓		
	Video Out		—				
	Control Settings	iAUTO	Live Guide		✓		
		P/A/S/M	Live Control		✓		
		ART	Art Menu		✓		
		SCN	Scene Menu		✓		
	/Info Settings	▶ Info	Image Only, Overall	✓	✓	✓	
		LV-Info	Image Only, ▲, Level Gauge Display	✓	✓		
		Settings	25, Calendar display, “My Clips” playback	✓	✓		
	Displayed Grid		Off	✓	✓		
	Picture Mode Settings		All On	✓	✓		
	Histogram Settings	Highlight	255		✓		
		Shadow	0				
	Mode Guide		On		✓		
	Live View Boost		Off	✓	✓	✓	
	Frame Rate		Normal	✓	✓	✓	
	Art LV Mode		mode1		✓		
	Flicker reduction		Auto		✓		
	LV Close Up Mode		mode2		✓		91
	Lock		Off	✓	✓		
	▶Close Up Mode		mode1		✓		
	Peaking Settings		White	✓	✓		
	Backlit LCD		Hold	✓	✓	✓	
	Sleep		1min	✓	✓	✓	
	■))		On	✓	✓	✓	
	USB Mode		Auto		✓	✓	
	Exp/ /ISO						
	EV Step		1/3EV	✓	✓	✓	91
	Noise Reduct.		Auto	✓	✓	✓	
	Noise Filter		Standard	✓	✓	✓	
	ISO		Auto	✓	✓	✓	
	ISO Step		1/3EV	✓	✓	✓	
	ISO-Auto Set		High Limit: 1600 Default: 200	✓	✓	✓	92
	ISO-Auto		P/A/S	✓	✓		
	Metering			✓	✓	✓	
	AEL Metering		Auto	✓	✓	✓	
	Bulb/Time Timer		8min	✓	✓	✓	
	Bulb/Time Monitor		-7	✓	✓		
	Live Bulb		Off	✓	✓		
	Live Time		0.5 sec	✓	✓		
	Anti-Shock[♦]		Off (2 sec.)	✓	✓	✓	
	Composite Settings		1 sec	✓	✓		

Tab	Function		Default	*1	*2	*3	☞
	Custom						
	X-Sync.		1/250	✔	✔	✔	92
	Slow Limit		1/60	✔	✔	✔	
	+EV		Off	✔	✔	✔	
	/Color/WB						
	Set		1 LF, 2 LN, 3 MN, 4 SN	✔	✔	✔	93
	Pixel Count	Middle	3200×2400	✔	✔	✔	
		Small	1280×960				
	Shading Comp.		Off	✔	✔	✔	
	WB		Auto A:0, G:0	✔	✔	✔	
	All WB	All Set	—	✔	✔		
		All Reset	—		✔		
	WB AUTO Keep Warm Color		On	✔	✔	✔	
	+WB		WB AUTO	✔	✔		
	Color Space		sRGB	✔	✔	✔	
	Record/Erase						
	Quick Erase		Off	✔	✔	✔	94
	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	—				
	Movie						
	Mode		P		✔		95
	Movie		On	✔	✔	✔	
	Recording Volume		±0		✔		
	Volume Limiter		On		✔		
	Wind Noise Reduction		Off		✔		
	Movie Effect		On		✔		
	Movie+Photo Mode		mode1		✔		
	Utility						
	Pixel Mapping		—				133
	Exposure Shift		±0	✔	✔		96
	Warning Level		±0		✔		
	Level Adjust		—		✔		
	Touch Screen Settings		On		✔		
	Eye-Fi		On		✔		
	Electronic Zoom Speed	Still Picture	Normal		✔		
		Movie	Normal				

8 Information

Accessory Port Menu

Tab		Function		Default	*1	*2	*3	☞
		OLYMPUS PENPAL Share						
		Please Wait		—				107,108
		Address Book	Address List	—				108
			Search Timer	30 sec		✓		
			New Pairing	—				
		My OLYMPUS PENPAL		—				109
		Picture Send Size		Size 1: Small		✓		
		OLYMPUS PENPAL Album						
		Copy All		—				109
		Reset Protect		—				
		Album Mem. Usage		—				
		Album Mem. Setup		—				
		Picture Copy Size		Size 2: Medium		✓		
		Electronic Viewfinder						
		EVF Adjust		±0, ±0		✓		109
		EVF Auto Switch		On		✓		

Specifications

■ Camera

Product name	E-PL8
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
Total no. of pixels	Approx. 17.2 million pixels
No. of effective pixels	Approx. 16.05 million pixels
Screen size	17.3 mm (H) × 13.0 mm (V)
Aspect ratio	1.33 (4:3)
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 speed	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 –2 - 20 (Equivalent to M.ZUIKO DIGITAL 17mm f2.8, ISO100)
Shooting modes	iAUTO: iAUTO/**P**: Program AE (Program shift can be performed)/ **A**: Aperture priority AE/**S**: Shutter priority AE/**M**: Manual/ : PHOTO STORY/**ART**: Art filter/**SCN**: Scene/: Movie
ISO sensitivity	LOW, 200 - 25600 (1/3, 1 EV step)
Exposure compensation	±5 EV (1/3, 1/2, 1 EV step)
White balance	
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/ My Clips
Drive	
Drive mode	Single-frame shooting/Sequential shooting/Self-timer
Sequential shooting (When shooting with Sequential H)	7.1 fps 8.5 fps (when [Image Stabilization] is set to [Off])
Self-timer	Operation time: 12 sec./2 sec./Customized
Energy saving function	Switch to sleep mode: 1 minute, Power OFF: 5 minutes (This function can be customized.)
Flash	
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)/Accessory port	
Power supply	
Battery	Li-ion Battery ×1
Dimensions/weight	
Dimensions	117.1 mm (W) × 68.3 mm (H) × 38.4 mm (D) (4.6" × 2.7" × 1.5") (excluding protrusions)
Weight	Approx. 374 g (0.8 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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HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

■ FL-LM1 Flash

Guide number	7 (ISO100•m) (10 (ISO200•m))
Firing angle	Covers the picture angle of a 14 mm lens (equivalent to 28 mm in 35 mm format)
Dimensions	Approx. 39.2 mm (W) × 32.2 mm (H) × 43.4 mm (D) (1.5" × 1.3" × 1.7")
Weight	Approx. 25 g (0.06 lb.)

■ Lithium ion battery

Model No.	BLS-50
Product type	Rechargeable Lithium ion battery
Nominal voltage	DC 7.2 V
Nominal capacity	1210 mAh
No. of charge and discharge times	Approx. 500 times (varies with usage conditions)
Ambient temperature	0 °C - 40 °C (32 °F - 104 °F) (charging)
Dimensions	Approx. 35.5 mm (W) × 12.8 mm (H) × 55 mm (D) (1.4" × 0.5" × 2.2")
Weight	Approx. 46 g (0.1 lb.)

■ Lithium ion charger

Model No.	BCS-5
Rated input	AC 100 V - 240 V (50/60 Hz)
Rated output	DC 8.35 V, 400 mA
Charging time	Approx. 3 hours 30 minutes (room temperature)
Ambient temperature	0 °C - 40 °C (32 °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.
- Visit our website for the latest specifications.

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.
⚠	WARNING	If the product is used without observing the information given under this symbol, serious injury or death may result.
⚠	CAUTION	If the product is used without observing the information given under this symbol, injury may result.
⚠	NOTICE	If the product is used without observing the information given under this symbol, damage to the equipment may result.

WARNING!
TO AVOID THE RISK OF FIRE OR ELECTRICAL SHOCK, NEVER DISASSEMBLE, EXPOSE THIS PRODUCT TO WATER OR OPERATE IN A HIGH HUMIDITY ENVIRONMENT.

General Precautions

Read All Instructions — Before you use the product, read all operating instructions. Save all manuals and documentation for future reference.

Power Source — Connect this product only to the power source described on the product label.

Foreign Objects — To avoid personal injury, never insert a metal object into the product.

Cleaning — Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.

Heat — Never use or store this product near any heat source such as a radiator, heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.

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

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

⚠ WARNING

- **Do not use the camera near flammable or explosive gases.**
- **Do not use the flash and LED (including AF illuminator) on people (infants, small children, etc.) at close range.**
  - You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.
- **Do not look at the sun or strong lights with the camera.**
- **Keep young children, infants away from the camera.**
  - Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
    - Becoming entangled in the camera strap, causing strangulation.
    - Accidentally swallowing the battery, cards or other small parts.
    - Accidentally firing the flash into their own eyes or those of another child.

- Accidentally being injured by the moving parts of the camera.

- **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.**
- **Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.**
  - Never remove the batteries with bare hands, which may cause a fire or burn your hands.
- Never hold or operate the camera with wet hands.
  This may cause overheating, exploding, burning, electrical shocks, or malfunctions.
- **Do not leave the camera in places where it may be subject to extremely high temperatures.**
  - Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire. Do not use the charger if it is covered (such as a blanket). This could cause overheating, resulting in fire.
- **Handle the camera with care to avoid getting a low temperature burn.**
  - When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
    - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
    - In places subject to extremely cold temperatures, the temperature of the camera's body may be lower than the environmental temperature. If possible, wear gloves when handling the camera in cold temperatures.
- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
  - Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
  - In sandy or dusty environments.
  - Near flammable items or explosives.
  - In wet places, such as bathrooms or in the rain.
  - In places prone to strong vibrations.
- The camera uses a lithium ion battery specified by Olympus. Charge the battery with the specified charger. Do not use any other chargers.
- Never incinerate or heat batteries in microwaves, on hot plates, or in pressure vessels, etc.
- Never leave the camera on or near electromagnetic devices.
  This may cause overheating, burning, or exploding.
- Do not connect terminals with any metallic objects.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, keys, etc.
  The short circuit may cause overheating, exploding, or burning, which burn or damage you.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- If you cannot remove the battery from the camera, contact an authorized distributor or service center. Do not try to remove the battery by force.
  Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.
- Always store batteries out of the reach of small children and pets. If they accidentally swallow a battery, seek medical attention immediately.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use batteries with scratches or damage to the casing, and do not scratch the battery.
- Never subject batteries to strong shocks or continuous vibration by dropping or hitting. This may cause exploding, overheating, or burning.
- If a battery leaks, has unusual odor, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera, and keep away from fire immediately.

- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- The Olympus lithium ion battery is designed to be used only for the Olympus digital camera. Do not use the battery to other devices.
- **Do not allow children or animals/pets to handle or transport batteries (prevent dangerous behaviour such as licking, putting in mouth or chewing).**

Use Only Dedicated Rechargeable Battery 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.

⚠ CAUTION

- **Do not cover the flash with a hand while firing.**
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- Keep batteries dry at all times.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- This camera uses one Olympus lithium ion battery. Use the specified genuine battery. There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.

⚠ NOTICE

- **Do not use or store the camera in dusty or humid places.**
- **Use SD/SDHC/SDXC memory cards or Eye-Fi cards only. Never use other types of cards.**
  If you accidently insert another type of card into the camera, contact an authorized distributor or service center. Do not try to remove the card by force.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects and cause serious damage.
- Before transporting the camera, remove a tripod and all other non-OLYMPUS accessories.
- Never drop the camera or subject it to severe shocks or vibrations.
- When attaching the camera to or removing it from a tripod, rotate the tripod screw, not the camera.
- Do not touch electric contacts on cameras.
- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image pickup device, or may possibly cause fires.
- Do not push or pull severely on the lens.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter button to make sure that it is operating normally.
- The camera may malfunction if it is used in a location where it is subject to a magnetic/electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the camera off and on again before further operation.
- Always observe the operating environment restrictions described in the camera's manual.
- Insert the battery carefully as described in the operating instructions.
- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- Always unload the battery from the camera before storing the camera for a long period.
- When storing the battery for a long period, select a cool location for storage.
- Power consumption by the camera varies depending on which functions are used.
- During the conditions described below, power is consumed continuously and the battery becomes exhausted quickly.
  - The zoom is used repeatedly.
  - The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus.
  - A picture is displayed on the monitor for an extended period of time.
  - The camera is connected to a printer.

- Using an exhausted battery may cause the camera to turn off without displaying the battery level warning.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.

Using the wireless LAN function

- **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.

Monitor

- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a playback mode failure or damage to the monitor.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; it will be less noticeable in playback mode.
- In places subject to low temperatures, the monitor may take a long time to turn on or its color may change temporarily.
  When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. The monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The monitor of this product is manufactured with high-quality accuracy, however, there may be a stuck or dead pixel on the monitor. These pixels do not have any influence on the image to be saved. Because of the characteristics, the unevenness of the color or brightness may also be found depending on the angle, but this is due to the structure of the monitor. This is not a malfunction.

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 or of the implied warranty, so the above limitations may not apply to you.
- Olympus reserves all rights to this manual.

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.

Copyright Notice

All rights reserved. No part of these written materials or this software may be reproduced or used in any form or by any means, electronic or mechanical, including photocopying and recording or the use of any type of information storage and retrieval system, without the prior written permission of Olympus. No liability is assumed with respect to the use of the information contained in these written materials or software, or for damages resulting from the use of the information contained therein. Olympus reserves the right to alter the features and contents of this publication or software without obligation or advance notice.

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/IC 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 radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption rate (SAR).

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. IM001 has been tested and found to comply with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

For customers in North America, Central America, South America and the Caribbean

Declaration of Conformity
Model Number : IM001
Trade Name : OLYMPUS
Responsible Party : OLYMPUS 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.

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

OLYMPUS AMERICAS LIMITED WARRANTY - OLYMPUS AMERICA INC. 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 the authorized Olympus Repair Service Center designated by Olympus, 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 at Olympus's cost, provided that an 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. Repair or replacement of a Product shall not extend the warranty period provided herein, unless required by law.

Except where prohibited by law, the customer is liable and shall pay for shipment of the Products to the designated Olympus Repair 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 respective manufacturer 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.
(g) Products shipped, delivered, purchased, or sold from dealers located outside of North America, Central America, South America and the Caribbean; and/or
(h) Products that are not intended or authorized to be sold in North America, South America, Central America, or the Caribbean (ie. Gray Market Goods).

WARRANTY DISCLAIMER; LIMITATION OF DAMAGES; AFFIRMATION OF ENTIRE WARRANTY AGREEMENT; INTENDED BENEFICIALLY

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 contact the designated Olympus Consumer Support Team for your region to coordinate the submission of your Product for repair service. To contact your Olympus Consumer Support Team in your region please visit or call the following:

Canada:
www.olympuscanada.com/repair /
1-800-622-6372

United States:
www.olympusamerica.com/repair /
1-800-622-6372

Latin America:
www.olympusamericalatina.com

The customer must copy or transfer any image or other data saved on a Product to another image or data storage medium prior to sending the Product to Olympus for for repair 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.

The customer should package the Product carefully using ample padding material to prevent damage in transit. Once the Product is properly packaged, ship the package to Olympus or the Olympus Authorized Repair Service Center location as instructed by the respective Olympus Consumer Support Team.

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

1) Sales receipt showing date and place of purchase. Handwritten receipts will not be accepted;
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; and
4) Sample prints, negatives, digital prints (or files on disk) if available and related to the problem.

KEEP COPIES OF ALL DOCUMENTS. Neither Olympus nor an Olympus Authorized Repair Service Center will be responsible for documents that are lost or destroyed in transit.

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

PRIVACY

Any information provided by you to process your warranty claim shall be kept confidential and will only be used and disclosed for the purposes of processing and performing warranty repair services.

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.

Simple Declaration of Comformity

Hereby, OLYMPUS CORPORATION declares that the radio equipment type IM001 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: 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

In the unlikely event that your product proves to be defective, although it has been used properly (in accordance with the written Instruction Manual 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-europa.com, it will be repaired, or at Olympus's option replaced, free of charge. In order to enable Olympus to provide you with the requested warranty services to your full satisfaction and as fast as possible, please note the information and instructions listed below:

1. To claim under this warranty please follow the instructions on http://consumer-service.olympus-europa.com for registration and tracking (this service is not available in all countries) or take the product, the corresponding original invoice or purchase receipt and the completed Warranty Certificate to the dealer where it 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-europa.com, before the end of the applicable national warranty period.
2. Please make sure your Warranty Certificate is duly completed by Olympus or an authorized dealer or Service center. 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 your Warranty Certificate.
3. Since this Warranty Certificate will not be re-issued, keep it in a safe place.
4. Please note that Olympus will not assume any risks or bear any costs incurred in transporting the product to the dealer or Olympus authorized service station.
5. This Warranty does not cover the following and you will be required to pay a repair charge, even for defects occurring within the warranty period referred to above.
   a. Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Instruction Manual, 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, water etc. entering the inside of the product casing.
6. Olympus's sole liability under this Warranty shall be limited to repairing or replacing the product. Any liability under the Warranty 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.

For customers in Thailand

This telecommunication equipment is in compliance with NTC requirements.

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

Trademarks

- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Inc.
- 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.
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