OLYMPUS

DIGITAL CAMERA

Instruction Manual



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- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.
- The contents in this manual are based on firmware version 1.0 for this camera. If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. For the latest information, please visit the Olympus website.

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.

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

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Camera Settings

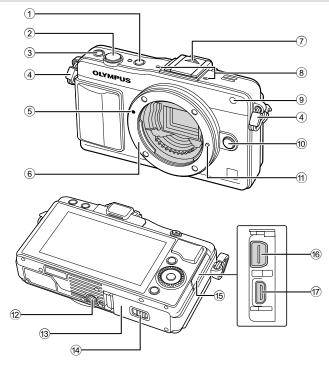
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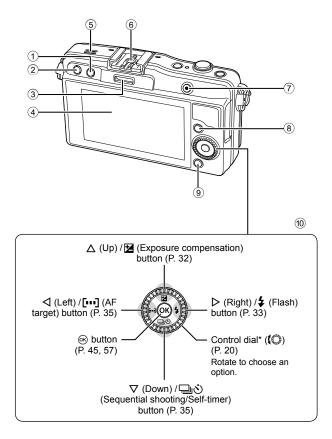
Preparing the camera and flow of operations

Names of parts



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- Shutter buttonP. 18, 23
- 3 LIVE GUIDE/Fn buttonP. 31/P. 78
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- (5) Lens attachment markP. 13
- Mount (Remove the body cap before attaching the lens.)
- Hot shoe cover
- (8) Stereo microphoneP. 56, 67
- (9) Self-timer lamp/AF illuminator
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- 10 Lens release buttonP. 13
- 1 Lens lock pin
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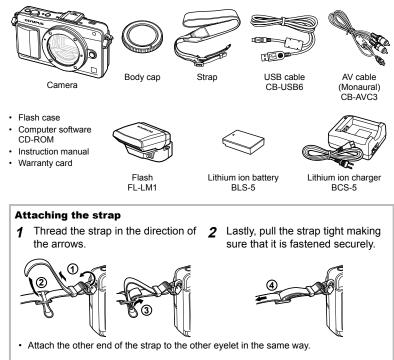
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* In this manual, the $(\bigcirc$ icon represents operations performed using the control dial.

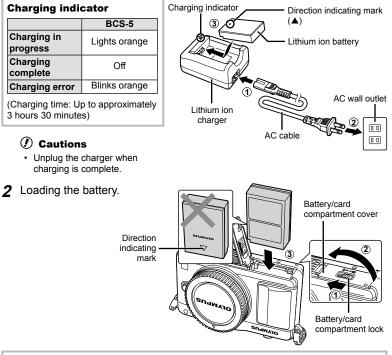
Unpack the box contents

The following items are included with the camera.

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



1 Charging 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.

⑦ Cautions

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

😢 Notes

- It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.
- Also read "Battery and charger" (P. 104).

Inserting and removing cards

- 1 Loading the card.
 - Slide the card in until it is locked into place.
 Card basics" (P. 105)

⑦ Cautions

 Turn off the camera before loading or removing the card.



2 Closing the battery/card compartment cover.

 Close the cover and slide the battery/card compartment lock in the direction shown by the arrow.



⑦ Cautions

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

Removing the card

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

⑦ Cautions

 Do not remove the battery or card while the card write indicator (P. 22) is displayed.



FlashAir and Eye-Fi Cards

Read "Card basics" (P. 105) before use.

Attaching a lens to the camera





- Rear cap
- · Align the lens attachment mark (red) on the camera with the alignment mark (red) on the lens, then insert the lens into the camera's body.
- · Rotate the lens in the direction indicated by the arrow until you hear it clicks.

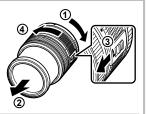
(?) Cautions

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



Using lenses with an UNLOCK switch

Retractable lenses with an UNLOCK switch cannot be used while retracted. Turn the zoom ring in the direction of arrow $(\widehat{1})$ to extend the lens $(\widehat{2})$. To store, turn the zoom ring in the direction of arrow ((4)) while sliding the UNLOCK switch ((3)).



Lens release button



Removing the lens from the camera

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

Interchangeable lenses

Read "Interchangeable lenses" (P. 106).

Attaching the flash unit

- **1** Remove the terminal 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.





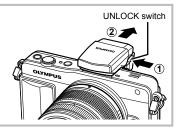


- **2** To use the flash, raise the flash head.
 - · Lower the flash head when the flash is not in use.



Removing the flash unit

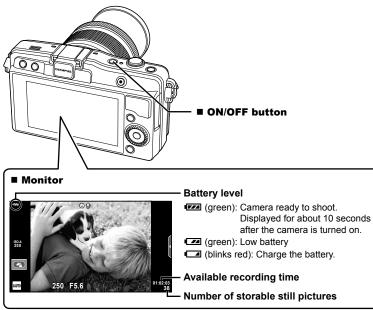
Press the UNLOCK switch while removing the flash unit.



Power on

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

- When the camera is turned on, the (blue) power lamp will light and the monitor will turn on.
- To turn off the power, 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.

Display the menus.

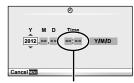
Press the **MENU** button to display the top menu.



MENU button -

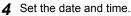
аят (1.000) SCN 29 А SETUP S M





The time is displayed using a 24-hour clock.

- 2 Select [Setup Menu].
- **3** Select [0] in the $[\mathring{1}]$ (setup) tab.
 - Use $\Delta \nabla$ to select [**f**] and press \triangleright .
 - Select [④] and press ▷.



- Use ⊲▷ to select items.
- Use △∇ to change the selected item.
- Use △∇ to select the date format.

5 Save settings and exit.

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

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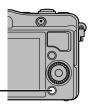
Preparing the camera and flow of operations

1

Shooting

Setting the Shooting mode

- **1** Press the **MENU** button to display the top menu.
- **2** Use $\triangleleft \triangleright$ to select a shooting mode.
 - In the P/A/S/M column, use $\Delta \nabla$ to highlight P, A, S, or M.





MENU button

- 3 Press 👀.
 - In SCN and ART modes, a menu will be displayed. Use $\Delta \nabla$ to highlight options and press to select.

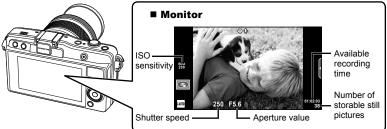
FAUTO	A full auto mode in which the camera automatically optimizes settings for the current scene. The camera does all the work, which is convenient for beginners.
Р	Aperture and shutter speed are automatically adjusted for optimal results.
Α	You control aperture. You can sharpen or soften background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

• For information on using the shooting modes, read "Using the shooting modes" (P. 24).

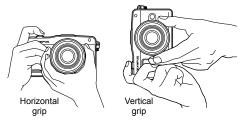
Taking photographs

First, try taking photographs in full auto mode.

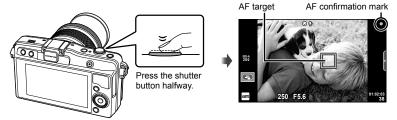
1 Select **FAUTO** as the shooting mode.



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



- 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 (\bigcirc or \bigcirc) will be displayed, and a green frame (AF target) will be displayed in the focus location.



- The ISO sensitivity, shutter speed and aperture value that have been set automatically by the camera are displayed.
- If the in-focus indicator blinks, the subject is not in focus. (P. 98)

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."



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.

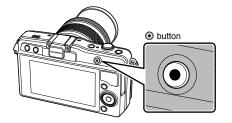
🕑 Notes

 You can also take photographs using the touch screen. I "Using the touch screen" (P. 42)

Recording movies

You can shoot movies in any shooting mode. First, try shooting in full auto mode.

- **1** Select **FAUTO** as the shooting mode.
- **2** Press the **()** button to begin recording.



3 Press the ⁽⁾ button again to end recording.



Displayed during Recording time recording

⑦ Cautions

- When using a camera with a CMOS image sensor, moving objects may appear distorted due to the rolling shutter phenomenon. This is a physical phenomenon whereby distortion occurs in the filmed image when shooting a fast-moving subject or due to camera shaking. In particular, this phenomenon becomes more noticeable when using a long focal length.
- If the camera is used for extended periods, the temperature of the image pickup device will rise and noise and colored fog may appear in images. Turn off the camera for a short time. Noise and colored fog may also appear in images recorded at high ISO sensitivity settings. If the temperature rises further, the camera will turn off automatically.

Taking photographs during movie recording

- Press the shutter button during movie recording to pause movie recording and take a
 photograph. Movie recording restarts after the photograph is taken. Press the

 button
 to end recording. Three files will be recorded to the memory card: the movie footage
 preceding the photograph, the photograph itself, and the movie footage following the
 photograph.
- Only one photograph can be taken at a time during movie recording; the self-timer and flash cannot be used.

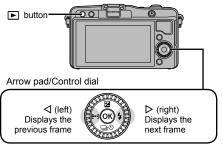
⑦ Cautions

- Image size and quality for photographs are independent of movie frame size.
- The autofocus and metering used in movie mode may differ from that used to take photographs.
- The
 button cannot be used to record movies in the following instances: shutter button pressed halfway/during bulb or time photography/sequential shooting/ Panorama/3D/multiple exposure, etc. (still photography also ends.)

Viewing photographs and movies

1 Press the 🕨 button.

- · Your most recent photograph or movie will be displayed.
- Use $\triangleleft \triangleright$ to select the desired photograph or movie.





Still image





Index display/Calendar display

- To view multiple frames, rotate the control dial counterclockwise (IO) during singleframe playback. To start calendar playback, rotate the control dial counterclockwise (IO) repeatedly.
- Press the is button to view the currently selected picture full frame.



Index display



Calendar display

Viewing still images

Close-up playback

 In single-frame playback, rotate the control dial clockwise (f^(Q)) to zoom in up to 14×; rotate the control dial counterclockwise (t^(Q)) to return to single-frame playback.



1

Watching movies

 Select a movie and press the

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

Volume

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

Selecting images

Select the image. You can also select multiple images for protection or deletion. Press the [●] button to select an image; a ✓ icon will appear on the image. Press the [●] button again to cancel the selection.

Erasing images

Display an image you want to delete and press the $\mathbf{\tilde{m}}$ button. Select [Yes] and press the $\boldsymbol{\textcircled{M}}$ button.









Basic shooting operations



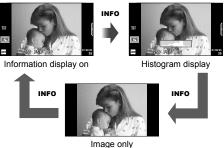
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33	Flash intensity controlP. 52			
34)	ISO sensitivityP. 55			
35	AF mode	Э	P. 54	
36	Metering	g mode	P. 53	
37)	Flash me	ode	P. 33	
38	Battery check			
		up (green) : Read		
		splayed for about		
		er the camera is t	,	
	Lit Iow	up (green) : Batte /.	ery is running	
	💶 Blir	nks (red) : Chargi	ng required	
39	Live guid	de recall	P. 31, 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.

Focus lock

If the camera is unable to focus on the subject with the desired composition, use focus lock to focus on the subject and then recompose the photograph.

- **1** Position the subject to be focused on in the center of the monitor and press the shutter button halfway.
 - Make sure that the AF confirmation mark is lighting up.
 - · Focus locks while the shutter button is pressed halfway.
- **2** Keeping the shutter button pressed halfway, recompose the photograph and then press the shutter button the rest of the way down.
 - Do not change the distance between the camera and the subject while pressing the shutter button halfway.

🖉 Tips

If the camera is unable to focus on the subject even when using focus lock, use [...] (AF target). IS "Choosing a focus target (AF target)" (P. 35)

"Point-and-shoot" photography (P program mode)

In mode P, the camera automatically adjusts shutter speed and aperture in response to subject brightness. Select P as the shooting mode.



Shooting mode

Shutter speed Aperture value

- The shutter speed and aperture selected by the camera are displayed.
- · The shutter speed and aperture displays flash if the camera is unable to achieve optimal exposure.

Warning display example (blinking)	Status	Action
	The subject is too dark.	Use the flash.
	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.
- When using a fixed [ISO] setting, change the setting. ISO] (P. 55)

Program shift (Ps)

In **P** and **ART** modes, you can press the \mathbf{M} button (Δ) and then use $\Delta \nabla$ to choose different combinations of aperture and shutter speed without altering exposure. This is known as "program shift." "s" appears next to the shooting mode during program shift. To cancel program shift, press and hold $\Delta \nabla$ until "s" is no longer displayed or turn the camera off.



Program shift

(!) Cautions

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

Choosing aperture (**A** aperture-priority mode)

In mode **A**, you choose the aperture and let the camera automatically adjust shutter speed for optimal exposure. Select **A** as the shooting mode.

- After pressing the button (△), use △ ▽ to choose the aperture.
- 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

Lower aperture value F2←F3.5←F5.6→F8.0→F16 Higher aperture value

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

Warning display example (blinking)	Status	Action
-30-75.6	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.

• When using a fixed [ISO] setting, change the setting. ISO [ISO] (P. 55)

Choosing shutter speed (S shutter-priority mode)

In mode \mathbf{S} , you choose the shutter speed and let the camera automatically adjust aperture for optimal exposure. Select \mathbf{S} as the shooting mode.

- After pressing the button (△), use △∇ to choose the 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

Slower shutter speed 2"←1"←15←60→100→400→1000 Faster shutter speed

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

Warning display example (blinking)	Status	Action
2006-)F2.8-	The subject is underexposed.	Set the shutter speed slower.
	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.
- When using a fixed [ISO] setting, change the setting. ISO [ISO] (P. 55)

Choosing aperture and shutter speed (M manual mode)

In mode \mathbf{M} , you choose both the aperture and the shutter speed. At a speed of BULB, the shutter remains open while the shutter button is pressed. Select \mathbf{M} as the shooting mode, press the \mathbf{M} button (Δ), and use $\Delta \nabla$ to adjust the shutter speed and $\triangleleft \triangleright$ to adjust the aperture value.

 Shutter speed can be set to values between 1/4000 and 60 seconds or to [BULB] or [LIVE TIME].

🕖 Cautions

- Exposure compensation is not available in \boldsymbol{M} mode.

Choosing when the exposure ends (bulb/time photography)

Use for night landscapes and fireworks. Shutter speeds of [BULB] and [LIVE TIME] are available in mode $\pmb{M}.$

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.

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. In addition, [Live BULB] can be used to display the image exposure during bulb photography. 🕼 "Using the custom menus" (P. 70)

⑦ Cautions

- ISO sensitivity can be set to a value up to ISO 1600 for live bulb and live time photography.
- To reduce camera blur during long exposures, mount the camera on a tripod and use a remote cable (P. 120).
- The following features are not available during long exposures: Sequential shooting/self-timer shooting/AE bracket shooting/image stabilizer/ flash bracketing/multiple exposure*
 An extra prime than (Cff) is calcored for [Live RULE] or [Live TIME]
 - * An option other than [Off] is selected for [Live BULB] or [Live TIME].

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. IF [Noise Reduct.] (P. 74)

Using movie mode (🎛)

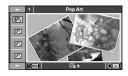
Movie mode (\mathbf{A}) can be used to film movies with special effects.

You can create movies that take advantage of the effects available in still photography mode. Use live control to select the settings. I "Adding effects to a movie [Movie Effect]" (P. 86)

You can also apply an after-image effect or other effects during movie recording. [Movie Effect] in the custom menu must be set to [On] before making these settings. [Im] Movie] (P. 77)

Using art filters

- 1 Select **ART** as the shooting mode.
 - A menu of art filters will be displayed. Select a filter using △∇.
 - Press is or press the shutter button halfway to select the highlighted item and exit the art filter menu.



- Types of art filters
 - Pop Art
 - Soft Focus
 - Pale&Light Color
 - Light Tone
 - Grainy Film
 - Pin Hole
 - Diorama

- Cross Process
- M Gentle Sepia
- M Dramatic Tone
- 🕅 Key Line
- Matercolor
- ART BKT (ART bracketing)

- 2 Shoot.
 - To choose a different setting, press is to display the art filter menu.

ART bracketing

Each time the shutter is released, the camera creates copies for all art filters. Use the $[\Box_{k}]$ option to choose filters.

Art effects

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

Modifying filters

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

Adding effects*

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

* The effects available vary with the selected filter.

🕖 Cautions

- If [RAW] is currently selected for image quality, image quality will automatically be set to [IN+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.

2

Shooting in scene mode

1 Select **SCN** as the shooting mode.

- A menu of scene menu will be displayed. Select a scene using ∆∇.
- Press is 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
- Night Scene
- ≥ Night+Portrait
- Children
- HI High Key
- Low Key
- DIS Mode
- Macro



3D 3D Photo

- 2 Shoot.
 - To choose a different setting, press 🛞 to display the scene menu.

⑦ Cautions

- 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.
- [Fisheye Effect], [Wide-Angle], and [Macro] are for use with optional converter lenses.
- Movies cannot be recorded in [e-Portrait], [Panorama], or [3D Photo] mode.
- [3D Photo] is subject to the following limitations.
 [3D Photo] can be used only with a 3D lens.

The camera monitor cannot be used to playback images in 3D. Use a device that supports 3D display.

Focus is locked. In addition, flash and self-timer also cannot be used.

Image size is fixed at 1920 × 1080.

RAW photography is not available.

Frame coverage is not 100%.

Taking panoramas

If you have installed the supplied computer software, you can use it to join pictures together to form a panorama.

1 Select **SCN** as the shooting mode.



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



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



- A panorama may include up to 10 images. A warning indicator (1) is displayed after the tenth shot.
- 6 After taking the last shot, press is to end the series.

⑦ Cautions

 During panorama shooting, the image previously taken for position alignment will not be displayed. With the frames or other markers for display in the images as a guide, set the composition such that the edges of the overlapping images overlap within the frames.

🕑 Notes

2

Using shooting options

Using live guides

The live guide function lets even users who are unfamiliar with the camera access a variety of advanced photographic techniques, and make settings intuitively while viewing the monitor.





Level bar/selection



- 1 Select FAUTO, P, A, S, M, ART or SCN as the shooting mode.
- **2** After pressing the LIVE GUIDE button to display the live guide, use the $\Delta \nabla$ buttons on the arrow pad to highlight an item and press to select.
- **3** Use $\Delta \nabla$ to choose the level.
 - If [Shooting Tips] is selected, highlight an item and press is to view a description.
 - · Press the shutter button halfway to select.
 - The effect of the selected level is visible in the display. If [Blur Background] or [Express Motions] is selected, the display will return to normal, but the selected effect will be visible in the final photograph.
- 4 Shoot.
 - Press the shutter button to shoot.
 - To clear the live guide from the display, press the **MENU** button.

⑦ Cautions

- The SCN modes [Panorama] and [3D Photo] are not available.
- If [RAW] is currently selected for image quality, image quality will automatically be set to [IN+RAW].
- · Live guide settings are not applied to the RAW copy.
- · Pictures may appear grainy at some live guide setting levels.
- · Changes to live guide setting levels may not be visible in the monitor.
- · Frame rates drop when [Blurred Motion] is selected.
- The flash cannot be used with the live guide.
- · Changes to live guide options cancel previous changes.
- Choosing live guide settings that exceed the limits of the camera exposure meters may
 result in pictures that are over or underexposed.

🖉 Tips

In modes other than (AUTO, you can use live control to make more detailed settings.
 "Using live control" (P. 45)

Controlling exposure (exposure compensation)

Press the \bowtie button (\triangle) and use $\triangleleft \triangleright$ to adjust exposure compensation. Choose positive ("+") values to make pictures brighter, negative ("-") values to make pictures darker. Exposure can be adjusted by ±3.0 EV.







Negative (-)

No compensation (0)

Positive (+)

⑦ Cautions

• Exposure compensation is not available in **FAUTO**, **M**, or **SCN** mode.

Changing the brightness of highlights and shadows

To display the tone control dialog, press the button (\bigtriangleup) and press the **INFO** button. Use $\triangleleft \triangleright$ to choose a tone level. Choose "low" to darken shadows or "high" to brighten highlights.





EN | 33

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** Attach the flash unit and raise the flash head.
 - I Hattaching the flash unit" (P. 14)



- **2** Press the 4 button (\triangleright) to display options.
- **3** Use $\triangleleft \triangleright$ to choose a flash mode and press \odot .
 - The options available and the order in which they are displayed vary depending on the shooting mode. Is "Flash modes that can be set by shooting mode" (P. 34)

AUTO	Auto flash	The flash fires automatically in low light or	
\$	Fill-in flash The flash fires regardless of the light conditions.		
٤	Flash off	The flash does not fire.	
@/ \$ @	Red-eye reduction flash	This function allows you to reduce the redeye phenomenon. In ${f S}$ and ${f M}$ 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.	
4 FULL , 4 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.	

4 Press the shutter button all the way.

⑦ Cautions

- In [①/\$ (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.
- [③/\$③(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	Super control panel	Flash mode	Flash timing	Conditions for firing the flash	Shutter speed limit
	\$ AUTO	Auto flash	1st curtain	Fires automatically in dark/backlit conditions	1/30 sec. – 1/250 sec.*
	۲	Auto flash (red-eye reduction)			
	\$	Fill-in flash		Always fires	30 sec. – 1/250 sec.*
P/A	٢	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)			
	4 SLOW2	Slow synchronization (2nd curtain)	2nd curtain		
	4	Fill-in flash	1st		60 sec. –
	\$@	Fill-in flash (red-eye reduction)	curtain	Always fires	1/250 sec.*
S/M	٢	Flash off	—		_
	 2nd-C	Fill-in flash/Slow synchronization (2nd curtain)	2nd curtain	Always fires	60 sec. – 1/250 sec.*

• \$ AUTO, (3) can be set in FAUTO mode.

* 1/200 sec. when using an separately sold external flash unit

Minimum range

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

Lens	Approximate distance at which vignetting occurs
14-42mm	1.0 m
17 mm	0.25 m
40-150mm	1.0 m
14-150 mm	Flash cannot be used
12-50mm	Flash cannot be used

 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.

Choosing a focus target (AF target)

Choose which of the 35 autofocus targets will be used for autofocus.

- **1** Press the **[•••]** button (\triangleleft) to display the AF target.
- **2** Use $\Delta \nabla \triangleleft \triangleright$ to select the single target display and position the AF target.
 - "All targets" mode is restored if you move the cursor off the screen.
 - You can choose from the following 4 target types. Press the INFO button and use $\Delta\,\nabla.$



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

Single Target (Standard size, small size)



Select the focus target manually. Set the target size to [•]s (small) to further limit the focus position.

Group Target



The camera automatically chooses from the targets in the selected group.

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 \Box \diamond button (∇) to display the direct menu.
- **2** Select an option using $\triangleleft \triangleright$ and press \circledast .

	Single-frame shooting	Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode).	
Ē	Sequential H Photographs are taken at about 8 frames per second (fps while the shutter button is pressed all the way down.		
Ē	Photographs are taken at about 3.5 frames per second (fr while the shutter button is pressed all the way down.		
ئ12s	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.	
		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.	
ŚC	Self-timer Custom	Set the number of frames to be shot. Select $\mathfrak{E},$ press the \mathbf{INFO} button, and rotate the dial.	

🕑 Notes

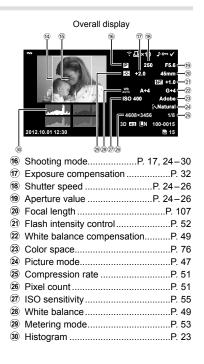
- To cancel the activated self-timer, press the $\Box \dot{\heartsuit} (\nabla)$ button.
- In [S-AF] and [MF] focus modes, focus and exposure will be fixed at the values for the first frame in each sequence.

⑦ Cautions

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

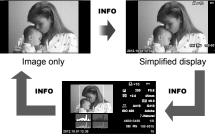
Monitor display during playback

	Simplified display						
		456					
13-							
1	Battery check	P. 15					
2	Eye-Fi upload complete	P. 78					
3	Print reservation						
_	Number of prints						
4	Sound record	P. 40					
5	Protect	P. 40					
6	Image selected	P. 21					
7	File number	P. 76					
8	Frame number						
9	Storage device	P. 105					
10	Record mode	P. 51					
1	Aspect ratioP.	50, P. 66					
12	3D image	P. 29					
13	Date and time	P. 16					
14	Aspect border	P. 50					
15	AF target	P. 35					



Switching the information display

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

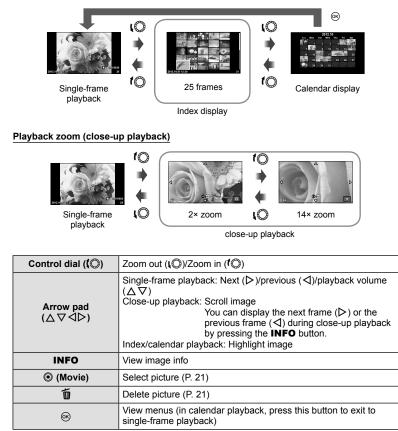


Overall display

Single-frame playback

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

Index display/calendar display



Using playback options

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



	Still image frame	Movie frame
JPEG Edit, RAW Data Edit 🕼 P. 65, 66	~	—
Image Overlay 🕼 P. 67	~	—
Movie Play	—	~
O-n (Protect)	~	~
I (Audio recording)	~	—
Rotate	~	—
(Slideshow)	~	~
Erase	~	~

Performing operations on a movie frame (Movie Play)

ØK	Pause or resume playb • You can perform the ⊲▷ or Control dial △ ▽	ack. following operations while playback is paused. Previous/Next Press and hold ⊲⊳ to continue the operation. Display the first frame. Display the last frame.	
$\triangleleft / \triangleright$	Advance or rewind a movie.		
Δ / ∇	Adjust volume.		

O Cautions

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

Protecting images

Protect images from accidental deletion. Display an image you wish to protect and press to display the playback menu. Select [On] and press , and then press Δ to protect the image. Protected images are shown by a On (protect) icon. Press $\bigtriangledown{}$ to remove protection.

You can also protect multiple selected images. I Selecting images" (P. 21)

🕐 Cautions

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

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 ⊛.
 - · Audio recording is not available with protected images.
 - · Audio recording is also available in the playback menu.
- 2 Select [♥] and press ∞.
 - To exit without adding a recording, select [No].
- 3 Select [♥ Start] and press ⊛ to begin recording.
 - To stop recording part-way through, press .
- 4 Press or to end recording.
 - Images with audio recordings are indicated by a icon.
 - To delete a recording, select [Erase] in Step 2.

Rotate

Choose whether to rotate photographs.

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

O-n (protect) icon







Slideshow

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

1 Press ⊛ during playback and select ₽.



2 Adjust settings.

Start	Start the slideshow. Images are displayed in order, starting with the current picture.
BGM Set BGM (4 types) or turn BGM [Off].	
Effect*	Choose the transition effect between frames.
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.

* Movies are not displayed when an effect other than [Fade] is selected.

3 Select [Start] and press .

- · The slideshow will start.
- Press to stop the slideshow.

Volume

Press $\Delta \nabla$ during the slideshow to adjust the overall volume of the camera speaker. Press $\Delta \triangleright$ to adjust the balance between the background music and the sound recorded with photographs or movies.

🕑 Notes

 You can change [Beat] to different BGM. Record the data downloaded from the Olympus website onto the card, select [Beat] from [BGM] in step 2, and press ▷. Visit the following website for the download.

http://support.olympus-imaging.com/bgmdownload/

Using the touch screen

You can use the touch screen during playback or when framing pictures in the monitor. You can also use the touch screen to adjust settings in the live guides and super control panel.

Live guides

The touch screen can be used with live guides. "Using live guides" (P. 31)

- **1** Touch the tab and swipe your finger to the left to display live guides.
 - Tap to select items.
- **2** Use your finger to position the sliders.
 - Tap Ook to enter the setting.
 - To cancel the live guide setting, tap () on the screen.

Shooting mode

You can focus and shoot by tapping the monitor.

Tap $\textcircled{ cond to cycle through touch screen settings. This function is not available when [Movie Effect] is [On] in <math>\textcircled{ cond to cycle conduct of the cycle c$



Touch screen operations disabled.



Tap a subject to focus and automatically release the shutter. This function is not available in ${\bf \Omega}$ mode.



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.







2 Use the slider to choose the size of the target frame, and then tap **(a)** to zoom in on the subject of the target frame.

- Use your finger to scroll the display when the picture is zoomed in.
- Tap [1x] to cancel the zoom display.

Playback mode

Use the touch screen to page through images or zoom in and out.

Full-frame playback

Viewing additional images

- Slide your finger to the left to view later frames, right to scroll view earlier frames.
- Keep your finger on the edges of the display to scroll continuously backward or forward through pictures.

Playback zoom

- Slide the bar up or down to zoom in or out.
- Use your finger to scroll the display when the picture is zoomed in.
- Tap 🕑 to display Index playback. For calendar playback, tap 🕑 until the calendar is displayed.

Index/Calendar Playback

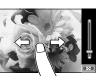
Page ahead/Page back

- Slide your finger up to view the next page, down to view the previous page.
- Use I or I to choose the number of images displayed.
- For single-frame playback, tap () until the current image is displayed full frame.

Viewing images

• Tap an image to view it full frame.









2

Adjusting Settings

You can set the shooting mode and functions.

Set the shooting mode

Select the shooting mode setting. I "Setting the Shooting mode" (P. 17)

1 Tap the shooting mode icon to display the top menu.





2 Tap the desired shooting mode.

Using the super control panel

Settings can be adjusted in the super control panel. I "Using the super control panel" (P. 83)

- **1** Display the super control panel.
 - Press or to display the cursor.

Tap the desired item.The item will be highlighted.





3 Rotate the dial to choose an option.

⑦ Cautions

2

- The situations in which touch screen operations are not available include the following. Panorama/3D/e-portrait/multiple exposure/during bulb or time photography/one-touch white balance dialog/when buttons or dials are in use
- In self-timer mode, the timer can be started by tapping the display. Tap again to stop the timer.
- · Do not touch the display with your fingernails or other sharp objects.
- Gloves or monitor covers may interfere with touch screen operation.
- You can also use the touch screen with the ART and SCN menus. Tap an icon to select it.

Using live control

The live control can be used to adjust settings in **P**, **A**, **S**, **M**, and \mathfrak{A} modes. Using live control allows you to preview the effects of different settings in the monitor.

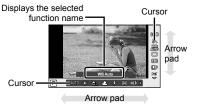


Available settings

Image stabilizer	P. 46
Picture mode	P. 47
Scene mode	P. 29
Art filter mode	P. 28
🔐 mode	P. 48
White balance	P. 49
Sequential shooting/self-timer	P. 35
Aspect ratio	P. 50

- 2 Use △▽ to select the settings, use ⊲▷ to change the selected setting, and press .
 - The selected settings take effect automatically if no operations are performed for about 8 seconds.

Record mode	P. 51
Flash mode	P. 33
Flash intensity control	P. 52
Metering mode	P. 53
AF mode	P. 54
ISO sensitivity	P. 55
Face priority	P. 55
Movie sound record	P. 56



⑦ Cautions

· Some items are not available in some shooting modes.

🖉 Tips

 For more advanced options or to customize your camera, use the menus to make settings. IS "Using the menus" (P. 57) 3

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.

1 Display the live control and select the image stabilizer item using $\Delta \nabla$.



	OFF	IS Off	Image stabilizer is off.	
	S-IS1	Auto	Image stabilizer is on.	
Still picture	S-IS2	Vertical IS	Image stabilization applies only to vertical (1) camera shake. Use when panning the camera horizontally.	
	S-IS3	Horizontal IS	Image stabilization applies only to horizontal (() camera shake. Use when panning the camera horizontally with the camera held in portrait orientation.	
	OFF	IS Off	Image stabilizer is off.	
Movie	M-IS1	Movie-I.S.	In addition to Auto image stabilization, camera shake that occurs when shooting while walking is also reduced.	
	M-IS2	Auto	Image stabilization applies to camera shake in all directions.	

2 Select an option with $\triangleleft \triangleright$ and press \bigotimes .

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 ...
- 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.

⑦ Cautions

- The image stabilizer cannot correct excessive camera shake or camera shake that occurs when the shutter speed is set to the slowest speed. In these cases, it is recommended that you use a tripod.
- · When using a tripod, set [Image Stabilizer] to [OFF].
- When using a lens with an image stabilization function switch, priority is given to the lens side setting.
- · You may notice an operating sound or vibration when the image stabilizer is activated.
- The image stabilizer will not activate at shutter speeds of over 2 seconds.

Processing options (picture mode)

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

1 Display the live control and select [Picture Mode].



A	i-Enhance	Produces more impressive-looking results suited to the scene.			
2	Vivid	Produces vivid colors.			
3	Natural	Produces natural colors.			
4	Muted	Produces flat tones.			
\$	Portrait	Produces beautiful skin tones.			
Mon	otone	Produces black and white tone.			
Custom		Select one picture mode, set the parameters, and register the setting.			
(ART)	Pop Art				
ART2	Soft Focus				
APT3	Pale&Light Color				
AR4	Light Tone				
ART5	Grainy Film				
ART 6	Pin Hole	Choose an art filter and select the desired effect.			
ART	Diorama				
APT8	Cross Process				
₽¶	Gentle Sepia				
[A ^R]₀	Dramatic Tone				
ART	Key Line	1			
APT2	Watercolor				

2 Select an option with $\Delta \nabla$ and press \otimes .

Adding effects to a movie

You can create movies that take advantage of the effects available in still photography mode. Select Θ as the shooting mode to enable the settings.

1 After selecting \mathfrak{A} mode, display the live control (P. 45) and use $\Delta \nabla$ to highlight the shooting mode.



2 Use $\triangleleft \triangleright$ to choose a mode and press \circledast .

Р	Optimal aperture is set automatically according to the brightness of the subject.
A	Depiction of background is changed by setting the aperture. Use $\Delta \nabla$ to adjust the aperture.
s	Shutter speed affects how the subject appears. Use $\Delta \nabla$ to adjust the shutter speed. Shutter speed can be set to values between 1/30s and 1/4000s.
м	You control both aperture and shutter speed. Use $\triangleleft \triangleright$ to choose the aperture, $\Delta \bigtriangledown$ to select the shutter speed from values between 1/30 s and 1/4000 s. Sensitivity can be set manually to values between ISO 200 and 3200; auto ISO sensitivity control is not available.

⑦ Cautions

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

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 Display the live control and select the white balance item using $\Delta \nabla$.



2 Select an option using $\triangleleft \triangleright$ and press \circledast .

WB mode		Color temperature	Light conditions
Auto white balance	Αυτο	_	Used for most light conditions (when there is a white portion framed on the monitor). Use this mode for general use.
	*	5300K	For shooting outdoors on a clear day, or to capture the reds in a sunset or the colors in a fireworks display
Preset	Û	7500K	For shooting outdoors in the shadows on a clear day
balance	ප	6000K	For shooting outdoors on a cloudy day
	- <u>Å-</u>	3000K	For shooting under a tungsten light
		4000K	For subjects lit by fluorescent lights
	WB‡	5500K	For flash shooting
One-touch white balance (P. 50)	ഷപ്പ/ഷം	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	vhite CWB 2000K- 14000K		After pressing the INFO button, use ⊲⊳ buttons to select a color temperature and then press ⊛.

One-touch white balance

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

- 1 Select [♣] or [♣] (one-touch white balance 1 or 2) 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.
- - 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.

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 Display the live control and select the aspect ratio item using $\Delta \nabla$.
- **2** Use $\triangleleft \triangleright$ to select an aspect ratio and press \circledast .

⑦ Cautions

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

Image quality (record mode)

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

- **1** Display the live control and use $\Delta \nabla$ to choose a record mode for photographs or movies.
- **2** Select an option using $\triangleleft \triangleright$ and press \circledast .



Record mode

Record modes (still images)

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

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

* Default

RAW image data

This format (extension ".ORF") stores unprocessed image data for later processing. RAW image data cannot be viewed using other cameras or software, and RAW images cannot be selected for printing. JPEG copies of RAW images can be created using this camera. IS "Editing still images" (P. 65)

Record modes (movies)

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

- Depending on the type of card used, recording may end before the maximum length is reached.
- *1 Individual movies can be up to 29 minutes long.
- *2 Files may be up to 2GB in size.

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** Display the live control and select the Flash intensity control item using $\Delta \nabla$.
- **2** Choose the compensation value with $\triangleleft \triangleright$ and press \bigotimes .



⑦ Cautions

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

Choosing how the camera measures brightness (metering)

Choose how the camera meters subject brightness.

- **1** Display the live control and select the metering item using $\Delta \nabla$.
- **2** Select an option with $\triangleleft \triangleright$ and press \bigotimes .



	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 [③ Face Priority]) portrait subject. This mode is recommended for general use.	
0	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.	
c	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.	
ЮНІ	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.

Choosing a focus mode (AF mode)

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

- **1** Display the live control and select the AF mode item using $\Delta \nabla$.
- **2** Select an option with $\triangleleft \triangleright$ and press \circledast .
 - · 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 and second time. Even if the subject moves or you change the composition of the picture, the camera continues trying to focus. • Four Thirds system lenses focus using [S-AF].		
MF (manual focus)	This function allows you to manually focus on any subject.		
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. Four Thirds system lenses focus using [S-AF]. 		

⑦ Cautions

The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast.

3

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** Display the live control and select the ISO sensitivity item using $\Delta \nabla$.
- **2** Select an option using $\triangleleft \triangleright$ and press \bigotimes .

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

Face priority AF/pupil detection AF

The camera detects faces and adjusts focus and digital ESP.

- **1** Display the live control and select the face priority item using $\Delta \nabla$.
- **2** Use $\triangleleft \triangleright$ to select an option and press \otimes .



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

- **3** Point the camera at your subject.
 - If a face is detected, it will be indicated by a white border.
- **4** 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)





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

⑦ Cautions

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

😢 Notes

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

Movie sound options (recording sound with movies)

- **1** Display the live control and select the Movie \oint item using $\Delta \nabla$.
- **2** Switch ON/OFF using $\triangleleft \triangleright$ and press \circledast .



🕐 Cautions

- When recording sound in a movie, the sound made by the lens and camera operating
 may be recorded. If desired, you can reduce these sounds by shooting with [AF Mode] set
 to [S-AF], or by limiting the amount of times you press the buttons.
- No sound is recorded in [ART7] (Diorama) mode.

Using the menus

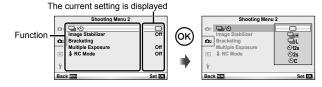
The menus contain shooting and playback options that are not displayed by the live control, and let you customize the camera settings for easier use.

P _i	Preliminary and basic shooting options
P 2	Advanced shooting options
►	Playback and retouch options
*.	Customizing camera settings (P. 70)
Ģ	Accessory port menu options for accessory port devices such as EVF and OLYMPUS PENPAL (P. 70)*
ŕ	Camera setup (e.g., date and language)

- * Not displayed at default settings.
- 1 After pressing the **MENU** button to display the top menu, select [SETUP] and press ⊛.



- **2** Use $\Delta \nabla$ to select a tab and press \odot .
- **3** Select an item using $\Delta \nabla$ and press B to display options for the selected item.



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

😢 Notes

- For the default settings of each option, refer to "Menu directory" (P. 111).
- A guide is displayed for about 2 seconds after you select an option. Press the INFO button to view or hide guides.

Shooting Menu 1/Shooting Menu 2

Shooting Menu 1 Card Setup Reset/Myset Dig Picture Mode ŝ. 4-Image Aspect Digital Tele-converter Þ 4:3 On ŕ Back Set E3 Card Setup (P. 58) 0, □」(べ) (Drive/Self-timer) (P. 61) Reset/Myset (P. 58) Image Stabilizer (P. 46) Picture Mode (P. 59) Bracketing (P. 61) **€**:• (P. 61) Multiple Exposure (P. 63) Image Aspect (P. 50) **7** RC Mode (P. 64) Digital Tele-converter (P. 64)

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. I are "Card basics" (P. 105)

- 1 Select [Card Setup] in A Shooting Menu 1.
- 2 Select [Format].



- 3 Select [Yes] and press .
 - · Formatting is performed.

Restoring default settings (Reset/Myset)

Camera settings can be easily restored to registered settings.

Using reset settings

Restore default settings.

- 1 Select [Reset/Myset] in A Shooting Menu 1.
- 2 Select [Reset] and press .
 - Highlight [Reset] and press ▷ to choose the reset type. To reset all settings except the time, date, and a few others, highlight [Full] and press .
 IS "Menu directory" (P. 111)

	Reset/Myset
Reset	Basic
Myset1	Set
Myset2	Set
Myset3	Set
Myset4	Set
Back 🗤	Eo > Set C

D,

Saving Myset

Restore preselected settings for **P**, **A**, **S**, or **M** mode. The shooting mode does not change. Up to four sets of preselected settings can be stored.

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

4 Select [Set] and press .

Settings that can be saved to Myset I "Menu directory" (P. 111)

Using Myset

Sets the camera to the settings selected for Myset.

- 1 Select [Reset/Myset] in P Shooting Menu 1.
- 3 Select [Set] and press .

Reset/Myset			
Reset	Basic		
Myset1	Set		
Myset2	Set		
Myset3	Set		
Myset4	Set		
Back 200	⊡o) Set C		

Processing options (Picture Mode)

Select an image tone and make individual adjustments to contrast, sharpness, and other parameters using the [Picture Mode] item in [Live Control]. Changes to each picture mode are stored separately.

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

	Shooting Menu 1	
D 1	Card Setup Reset/Myset	
101 2	Picture Mode	Ŕ
×	Image Aspect	4:3 On
ŕ	Digital Tele-converter	Un
Bac	k 🕬	Set C3

- **2** Select an option with $\Delta \nabla$ and press \otimes .
 - · The picture modes are the same as the [Picture Mode] item in [Live Control].
- **3** Press ▷ to display settings for the selected option.

			Â	2 -5	M	C
С	ontrast	Distinction between light and dark	~	~	~	~
S	harpness	Sharpness of the image	*	>	>	~
S	aturation	Vividness of the color	*	>	—	~
G	radation	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.				
	f fect Enhance)	Sets the extent that the effect will be applied.	~	_	_	~
	&W Filter Nonotone)	Creates a black and white image. The filter color is brightened and the complementary color is darkened.				
	N:Neutral	Creates a normal black and white image.				
	Ye:Yellow	Reproduces clearly defined white cloud with natural blue sky.				
	Or:Orange	Slightly emphasizes colors in blue skies and sunsets.		_	v	
	R:Red	Strongly emphasizes colors in blue skies and brightness of crimson foliage.				
	G:Green	Strongly emphasizes colors in red lips and green leaves.				
	ict. Tone Ionotone)	Colors the black and white image.				
	N:Neutral	Creates a normal black and white image.				
	S:Sepia	Sepia	-	-	~	~
	B:Blue	Bluish				
	P:Purple	Purplish				
	G:Green	Greenish				

Cautions

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

Image quality (◀=-)

Select an image quality. You can select a separate image quality for photographs and movies. This is the same as the [4:-] item in [Live Control].

• You can change the JPEG image size and compression ratio combination, and [I] and [I] pixel counts. [◀:• Set], [Pixel Count] II → "Using the custom menus" (P. 70)

Setting the self timer $(\Box / \dot{\heartsuit})$

You can choose a sequential shooting or self timer option. This is the same as the \Box_{3} buttons or the \Box_{3} setting of [Live Control]. Available self timer operations include the number of frames to be shot, the time after the shutter button is pressed until the picture is taken, and the shooting interval.

Select [□]/☉] at 2 Shooting Menu 2.

Shooting Menu 2	
Image Stabilizer	0#
D12 Bracketing	011
Multiple Exposure RC Mode	Off Off
Ŷ	
Back 🔤	Set CK

- 2 Select [ⓒC] (custom) and press .
- **3** Use $\Delta \nabla$ to select the item and press \triangleright .
 - Use $\Delta \nabla$ to select the setting and press \otimes .

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

Varying settings over a series of photographs (bracketing)

"Bracketing" refers to the act of varying settings automatically over a series of shots or a series of images to "bracket" the current value.

1 Select [Bracketing] in 2 Shooting Menu 2.



- **2** Choose a bracketing type.
 - BKT or HDR is displayed in the monitor.



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]. I "" "Using the custom menus" (P. 70)

WB BKT (WB bracketing)

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

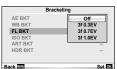
- White balance can be varied by 2, 4, or 6 steps on each of the A-B (Amber-Blue) and G-M (Green-Magenta) axes.
- The camera brackets the value currently selected for white balance compensation.
- No pictures will be taken during WB bracketing if there is not enough memory on the card for the selected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

FL BKT (FL bracketing)

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

- The **BKT** indicator turns green during bracketing.
- The size of the bracketing increment changes with the value selected for [EV Step]. Is "Using the custom menus" (P. 70)

Brac	keting
AE BKT	Off
WB BKT	2f 0.3EV
FL BKT	2f 0.7EV
ISO BKT	2f 1.0EV
ART BKT	3f 0.3EV
HDR BKT	3f 0.7EV
	3f 1.0EV





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]. IS "Using the custom menus" (P. 70)
- Bracketing is performed regardless of the upper limit set with [ISO-Auto Set]. I "Using the custom menus" (P. 70)

ART BKT (ART bracketing)

Each time the shutter is released, the camera records multiple images, each with a different art filter settiing. 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.

ack www	Set 0
Diorama	Off
Pin Hole	Off
Grainy Film	Off
Light Tone	Off
Pale&Light Color	011
Soft Focus	On

ART BKT

Off

Pop Art

HDR BKT (HDR bracketing)

The camera records multiple images, each with a different exposure suitable for HDR imaging.

- The images are recorded in sequential shooting mode. The camera continues to take the selected number of frames even if you release the shutter button.
- Focus and white balance are locked to the settings for the first frame.
- HDR bracketing cannot be combined with other bracketing.

Recording multiple exposures in a single image (multiple exposure)

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

- 1 Select [Multiple Exposure] in 💁 Shooting Menu 2.
- 2 Adjust settings.

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



• 🔁 is displayed in the monitor while multiple exposure is in effect.



- 3 Take pictures.
 - 🔁 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: I [Edit] (P. 65)

⑦ Cautions

- The camera will not go to sleep while multiple exposure is in effect.
- · Photographs taken with other cameras cannot be included in a multiple exposure.
- When [Overlay] is set to [On], the images displayed when a RAW image is selected are developed with the settings at the time of shooting.
- To set the shooting functions, cancel multiple exposure shooting first. Some functions cannot be set.
- Multiple exposure is cancelled automatically from the first picture in the following situations.

The camera is turned off/The **b** 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/You switch between the monitor and electronic viewfinder

- When a RAW image is selected using [Overlay], the JPEG image for the image recorded in JPEG+RAW 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.

Wireless remote control flash photography

The supplied flash unit and external flash units that offer a remote control mode and are designated for use with this camera can be used for wireless flash photography. Wireless remote control flash photography" (P. 109)

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 A 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.

⑦ Cautions

- Digital zoom is not available with multiple exposures or when (30), [2], [3], [3], [6], or [5] is selected in **SCN** mode.
- When a RAW image is displayed, the area visible in the monitor is indicated by a frame.



(P. 41) (P. 65) Edit (P. 65) 凸 (P. 91) Reset Protect (P. 67) Connection to Smartphone (P. 68)

Displaying images rotated (伯)

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.

- Select [Edit] in the ► Playback Menu and press .
- **2** Use $\Delta \nabla$ to select [Sel. Image] and press \otimes .
- **3** Use $\triangleleft \triangleright$ to select the image to be edited and press \circledast .
 - [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 .

	Create a JPEG	copy of a RAW image edited according to the settings.
RAW Data Edit	[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
	[Custom2]	on the monitor. You can save the settings used.

	•
	Choose from the following options: [Shadow Adj]: Brightens a dark backlit subject. [Redeye Fix]: Reduces the red-eye phenomenon during flash shooting. [μ]: Use the control dial to choose the size of the crop and $\Delta \nabla \triangleleft \triangleright$ to position the crop.
JPEG Edit	 [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 △▽ <i▷ li="" position.<="" specify="" the="" to="" trimming=""> [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. [I]: 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. </i▷>

- **5** When the settings are complete, press .
 - The settings will be applied to the image.
- 6 Select [Yes] and press .
 - The edited image is stored in the card.

⑦ Cautions

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

Image overlay

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

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

- 1 Select [Edit] in the ► Playback Menu and press .
- **2** Use $\Delta \nabla$ to select [Image Overlay] and press \otimes .
- 3 Select the number of images in the overlay and press .
- 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 2, 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 (.). A confirmation dialog will be displayed; select [Yes] and press (.).

🖉 Tips

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

Audio recording

Add an audio recording (up to 30 sec. long) to the current photograph. This is the same function as $[\cup]$ during playback. (P. 40)

Canceling all protections

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

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

Using the Smartphone connection option (Connection to Smartphone)

Use a commercially available FlashAir card to view images directly on a smartphone or PC that has Wi-Fi connectivity or to transfer images between the camera and a smartphone or PC that has Wi-Fi connectivity. FlashAir cards that have been set by another camera or device should be formatted before use. IS "Card basics" (P. 105) Software for smartphones is available. Check the Olympus website.

Making the connection settings

- 2 Select [Connection Settings] and press .
- 3 Enter the [SSID Setting] and press .
 - This becomes the FlashAir card ID name used to identify this card from the device to be connected.
- 4 Enter the password, and press .
 - This is the password used when connecting from another device. Set a password between 8 and 63 characters long.
 - The message [Initial setting completed] will be displayed and the settings are complete.

Connecting

- 2 Select the connection method and press .
 - [Private Connection]: Connect using the same preset password each time.
 - [One-Time Connection]: Connect using a password that is valid for only one connection. Set the 8-digit number and press ⊛.
- **3** Select the camera's FlashAir as the access point using the device to be connected, and establish the connection.
 - Refer to the Instruction Manual of the device for the method of connecting to the access point.
 - · When prompted to provide a password, enter the password set using the camera.
- 4 Open an internet browser on the device to be connected, and enter http:// FlashAir/ in the address bar.
 - The camera does not automatically turn off while the connection is established.

Ending the connection

Changing the settings

Select [Connection Settings] from [Connection to Smartphone], and set the [SSID Setting] and [Password Setting] items.

Setup Menu

Use the Setup Menu to set the basic camera functions.

	Setup Mer	าน
D 1	0	,,
	61	English
IČI 2		∦±0 ☆±0
	Rec View	5sec
►	%/© Menu Display	
	Firmware	
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Bac	k 7/070	Set ox

Option	Description	ß
(Date/time setting)	Set the camera clock.	
€↓ (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 riangle color display 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.	_
≉, /© 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 and accessory menus. The ♣ Custom menu is used to fine-tune camera settings. The ඏ Accessory Port menu is used to adjust settings for accessory port devices.

Before Using the Custom/Accessory Port Menus

- Press the MENU button to display the menus, and display the γ (Setup Menu) tab.
- 2 Select [♣/♥ Menu Display] and set [♣ Menu Display] or [♥ Menu Display] to [On].
 - The * (Custom Menu) or
 (Accessory Port Menu) tab will be displayed in the menu.

Custom Menu

- AF/MF (P. 71)
- Button/Dial (P. 71)
- Release/🖵 (P. 72)
- Disp/D)/PC (P. 72)
- Exp/ /ISO (P. 74)
- Custom (P. 75)
- 🔞 🐠/Color/WB (P. 75)
- Record/Erase (P. 76)
- Movie (P. 77)
- 🛍 🧴 Utility (P. 77)

Accessory Port Menu

- OLYMPUS PENPAL Share (P. 90)
- OLYMPUS PENPAL Album (P. 90)
- Electronic Viewfinder (P. 90)

Custom Menu	
D1 AF/MF	1
ing Button/Dial	
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🙀 🗊 Disp/=))/PC	
🐪 🗃 Exp/🖼/ISO	
👳 🖬 🛊 Custom	
မှ 📓 🐗 /Color/WB	
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Accessory Port Menu	
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D12 OLYMPUS PENPAL Album	
Electronic Viewfinder	
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P .	
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Back 11	Set C3

Custom Menu

🗛 AF/MF

MENU 🔿 🗞 🔿 🕅

Option	Description	ß
AF Mode	Choose the AF mode. This is the same as the live control setting. You can set separate focusing methods for still photography mode and Ω mode.	54
Full-time AF	If [On] is selected, the camera will continue to focus even when the shutter button is not pressed halfway.	
AEL/AFL	Customize AF and AE lock.	78
Reset Lens	When set to [On], this resets the focus of the lens (infinity) each time the power is turned off. The focus of power zoom lenses is also reset.	_
BULB/TIME Focusing	Normally focus locks during the exposure when manual focus (MF) is selected. Select [On] to allow focusing using the focus ring.	_
Focus Ring	You can customize how the lens adjusts to the focal point by selecting the rotational direction of the focus ring.	_
MF Assist	Select [On] to automatically magnify the image for precise focus when the focus ring is rotated in manual focus mode.	_
[···] 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 Illuminat.	Select [Off] to disable the AF illuminator.	_
Face Priority	Select the face priority AF mode. This is the same as the live control setting.	55

Button/Dial

MENU 🔿 🗞 🔿 🛅

Option	Description			ß
Button Function	Choose the function	n assigned to the selected b	utton.	
	[[FnFunction], [ⓒFunction], [▷Function], [▽Function], [@∄9Function], [[FnFunction]		78	
Dial Function	Choose the role played by the control dial.			
	P 🛃 / Ps			
	A Aperture	value / 🔀		
	S Shutter s	peed / 🔀		
	M Shutter s	peed / Aperture value		_
	▶ ■ Q / F	Prev/Next		
	In P , A , S , and M modes, the roles played before and after i button is pressed are reversed.			

Button/Dial

MENU 🔿 🗞 🔿 🛅

Option	Description	ß
Dial Direction	Choose the direction in which the dial is rotated to adjust shutter speed or aperture or to move the cursor.	—
@Lock	If [Off] is selected, exposure compensation and other settings can be adjusted by rotating the control dial without pressing the 🔀 button.	_

🐮 Release/🖵

MENU 🔿 🗞 🔿 🔯

Option	Description	R
RIs Priority S	If [On] is selected, the shutter can be released even when the camera is not in focus. This option can be set separately	
RIs Priority C	for S-AF (P. 54) and C-AF (P. 54) modes.	_
🖵 L fps	Choose the frame advance rates for $[\square_L]$ and $[\square_H]$. Figures	35
🖵 H fps	are the approximate maximums.	
및 + IS Off	If [Off] is selected, image stabilization will turn [On] during sequential shooting.	
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.	_

Disp/∋))/PC

MENU 🔿 🗞 🔿 🛅

Option	Description					RF .
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.					80
Video Out	Choose the video standard ([NTSC] or [PAL]) used in your country or region.					80
Control Settings	Choose the controls displayed in each shooting mode.					
		Shooting mode				
	Controls	P/A/ S/M	HAUTO	ART	SCN	82
	Live Control (P. 45)	On/Off	On/Off	On/Off	On/Off	
	Live SCP (P. 83)	On/Off	On/Off	On/Off	On/Off	
	Live Guide (P. 42)	-	On/Off	-	-	
	Art Menu	-	-	On/Off	-	
	Scene Menu	-	-	-	On/Off	
/Info Settings	Choose the information displayed when the INFO button is pressed. [▶] Info]: Choose the information displayed in full frame playback. [LV-Info]: Choose the information displayed when the camera is in shooting mode. [▶] Settings]: Choose the information displayed in index and calendar playback.					84

Disp/D))/PC

Option	Description					
Displayed Grid	Display a framing grid in 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.					
Mode Guide	Choose [Off] to not display help when choosing a shooting mode.	17				
Live View Boost	If [On] is selected, priority will be given to making images clearly visible; the effects exposure compensation and other settings will not be visible in the monitor.	_				
Frame Rate	Select [High] to reduce frame lag. However, the image quality may drop.	—				
Art LV Mode	[mode1]: The filter effect is always displayed. [mode2]: Filter effects are not visible in the monitor while the shutter button is pressed halfway. Choose for a smooth display.	_				
Flicker reduction	Reduce the effects of flicker under some kinds of lighting, including fluorescent lamps. When flicker is not reduced by the [Auto] setting, set to [50Hz] or [60Hz] in accordance with the commercial power frequency of the region where the camera is used.	_				
LV Close Up Mode	[mode1]: Pressing the shutter button halfway cancels zoom. [mode2]: Zoom is not cancelled when the shutter button is pressed halfway.	85				
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 🔿 🗞 🔿 🛐

Option	Description	Ŕ
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 only performed at slow shutter speeds. [On]: Noise reduction is performed with every shot. [Of]: Noise reduction off. Noise reduction requires about twice the time needed to record the image. Noise reduction turns off automatically during sequential shooting. This function may not work effectively with some shooting conditions or subjects. 	
Noise Filter	Choose the amount of noise reduction performed at high ISO sensitivities.	_
ISO	Set ISO sensitivity. This is the same as the live control setting.	55
ISO Step	Select the increments available for choosing ISO sensitivity.	
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.	53
AEL Metering	Choose the metering method used for AE lock (P. 78). [Auto]: Use the currently selected metering method.	—
BULB/TIME Timer	Choose the maximum exposure for bulb and time photography.	
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	_
Live TIME	monitor or press the shutter button halfway to refresh the display.	_
Anti-Shock [•]	Choose the delay between the shutter button being pressed and the shutter being released. This diminishes camera shake caused by vibrations. This feature is useful in situations such as microscope photography and astrophotography. It is also useful for sequential shooting (P. 35) and self timer photography (P. 35).	

🖬 🗲 Custom

MENU 🔿 🗞 🌧 🖬

Option	Description			
\$ X-Sync.	Choose the shutter speed used when the flash fires.	86		
\$ Slow Limit	Choose the slowest shutter speed available when a flash is used.	86		
52+ 1	When set to [On], it will be added to the exposure compensation value and flash intensity control will be performed.	32, 52		

🖸 🗲 /Color/WB

MENU 🔶 🗞 🄶 🐻

Option	Description	ß			
∢ ⊧- Set	You can select the JPEG image quality mode from combinations of three image sizes and four compression rates.				
	 Use ⊲▷ to select a combination ([€:-1]- [€:-4]) and use △∇ to change. Press ∞. Press ∞. 	51			
Pixel Count	Choose the pixel count for [M]- and [S]-size images.				
	 Select [Pixel Count] in the ♣, Custom Menu tab . Select [Middle] or [Small] and press ▷. Choose a pixel count and press . 	51			
	Back 202 ₽°o ► Set 203.				
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.	49			

Color/WB

Option	Description	r S
All WB1	[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.	_
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	RF .
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. [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. 58) is selected.	51
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 AdobeRGB: _mdd0000.jpg — mdd	_
Priority Set	Choose the default selection ([Yes] or [No]) for confirmation dialogs.	_
dpi Settings	Choose the print resolution.	—

Option	Description	ß
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 photographer and copyright holder in the Exif data for new photographer. [Copyright Name]: Enter the name of the photographer. [Copyright Name]: Enter the name of the copyright holder. 1) Highlight a character ① and press (()) to add the highlighted character to the name ②. 2) Repeat Step 1 to complete the name, then highlight [END] and press (()). • 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.	48		
Movie 🎐	Choose [Off] to record silent movies. This option can also be selected using the live control.	56		
Movie Effect	Choose [On] to enable movie effects in 🎛 mode.	86		
Wind Noise Reduction	Reduce wind noise during recording.	_		
Recording Volume	Adjust microphone sensitivity according to the distance to your subject.	_		

🕅 👩 Utility

MENU 🔿 🗞 🔿 🕅

Option	Description			
Pixel Mapping	The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions.	103		
Exposure Shift	 Adjust optimal 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. 32). 	_		

MENU 🔿 🗞 🔿 🛐

🗊 💼 Utility

Option	Description			
Carl Warning Level	Choose the battery level at which the I warning is displayed.	15		
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.	_		

* 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.

	S-AF	١E	L/AFL			
	mode1					
	Half Way					
	饠	;	AEL			
Back 200				Set CK		

AEL/AFL

			Shutter butt	on function	on Button function		
Mode		Half-	oress	Full press		When holding down AEL/AFL	
		Focus	Exposure	Focus	Exposure	Focus	Exposure
	mode1	S-AF	Locked	-	-	-	Locked
S-AF	mode2	S-AF	-	-	Locked	-	Locked
	mode3	-	Locked	-	-	S-AF	-
	mode1	C-AF start	Locked	Locked	-	-	Locked
C-AF	mode2	C-AF start	-	Locked	Locked	-	Locked
0-41	mode3	-	Locked	Locked	-	C-AF start	-
	mode4	-	-	Locked	Locked	C-AF start	-
	mode1	-	Locked	-	-	-	Locked
MF	mode2	-	-	-	Locked	-	Locked
	mode3	-	Locked	-	-	S-AF	-

Button Function

MENU → 🎭 → 🛐 → [Button Function]

See the table on P. 79 for the functions that can be assigned. The options available vary from button to button.

Button function items

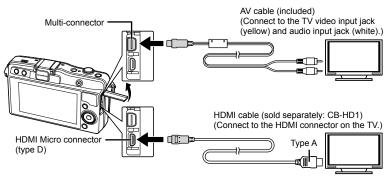
[[EnFunction] / [ⓒFunction]*1 / [▷Function]*1 / [▽Function] / [@⊕Function] ([Direct Function]*2 / [[•••]]*3) / [[EnFunction]*4

- *1 Not available in 🍄 mode.
- *2 Assign the function to each of $\Delta \nabla \triangleleft \triangleright$.
- *3 Choose the AF target.
- *4 Choose the function assigned to the button on some lenses.

Z	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 (electronic)	Aperture is stopped down to the selected value while the button is pressed.		
	The camera measures white balance when the button is pressed (P. 50).		
[•••]	Choose the AF target.		
[···] Home	Pressing the button selects the AF target position saved with [[•••] Set Home] (P. 71). The home AF target position is indicated by a IPP icon. Press the button again to return to AF target mode. If the camera is turned off when the home position is selected, the home position will be reset.		
MF	Press the button to select manual focus mode. Press the button again to restore the previously selected AF mode.		
RAW ∢ ⊧∙	Press the button to toggle between JPEG and RAW+JPEG record modes.		
Test Picture	Pictures taken while the button is pressed are displayed in the monitor but are not recorded to the memory card.		
Myset1–Myset4	The settings switch to the registered Mysets while the button is pressed.		
101	Turn the monitor backlight on and off.		
	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 this option is selected, the FL-LM1 will fire even when not raised. This enables I (Underwater) to be set in WB mode. When using an ED12-50mmEZ lens with power zoom (E-ZOOM), the lens is automatically zoomed to the WIDE end or TELE end in accordance with 💽 and 💽 switching.		
Live Guide	Press the button to display live guides.		
C (Digital Tele-converter)	Press the button to turn digital zoom on or off.		
Q (Magnify)	Zoom in on a portion of the frame when adjusting the focus. (P. 85)		
AF Stop	Stop autofocus.		
	Choose a sequential shooting or self timer option.		
\$	Choose a flash mode.		
HDR BKT	Switch to HDR bracketing with the saved settings.		
©Lock	When set to [Off], the aperture, shutter speed, exposure compensation, and other items can be set directly using the dial. Press and hold the button to set to [On].		
Off	No function is assigned to the button.		

Viewing camera images on TV

Use the AV cable provided with the camera to playback recorded images on your TV. Connect the camera to an HD TV using an HDMI cable (available from third-party suppliers) to view high-quality images on a TV screen.



- 1 Use the cable to connect the camera to the TV.
 - · Adjust settings on the TV before connecting the camera.
 - · Choose the camera video mode before connecting the camera via an AV cable.

2 Choose the TV input channel.

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

⑦ Cautions

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

1080i	Priority is given to 1080i HDMI output.
720p	Priority is given to 720p HDMI output.
480p/576p	480p/576p HDMI output. 576p is used when [PAL] is selected for [Video Out] (P. 72).

- · 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.

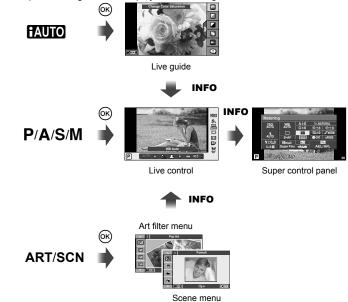
Using the TV remote control

The camera can be operated by a TV remote control when connected to a TV that supports HDMI control.

- 1 Select [HDMI] in 🌯 Custom Menu tab 🛅.
- 2 Select [HDMI Control] and choose [On].
- 3 Operate the camera by using the TV remote control.
 - · 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)

Set the option setting controls displayed in shooting mode.



The following monitor display that lists shooting status and their options is called the super control panel. Use the arrow pad or touch screen operations to make the settings.



Settings that can be modified using super control panel

- ① Currently selected option
- ISO sensitivity.....P. 55
- 3 Sequential shooting/self-timerP. 35
- ④ Flash mode.....P. 33
- 5 Flash intensity control......P. 52
- White balanceP. 49
 White balance compensation......P. 49
 Picture mode.....P. 47

- · Not displayed in movie record mode.
- **1** After displaying the super control panel, select the desired setting using $\Delta \nabla \triangleleft \triangleright$ and press \bigotimes .
 - · You can also select settings using the control dial.
- **2** Select an option using $\triangleleft \triangleright$ and press \otimes .
 - Repeat steps 1 and 2 as necessary.
 - The selected settings take effect automatically if no operations are performed for a few seconds.
- **3** Press the shutter button halfway to return to shooting mode.

1	Face priority	P.	55
12	Metering mode	P.	53
13	Aspect ratio	P.	50
14)	Record mode	P.	51
15	AF mode	P.	54
	AF target	P.	35
16	Image stabilizer	P.	46
17	Shooting mode	P.	17

B&W Filter 🕞P. 60

Picture tone (1)P. 60

Color space.....P. 76

10 Button function assignmentP. 78





Adding information displays (

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.



Display Grid ([[]])



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] 🐼 "🗊 Disp/=)]/PC" (P. 73)

Playback information displays

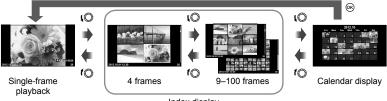
Use [Info] to add the following playback information displays. The added displays are displayed by repeatedly pressing the **INFO** button during playback. You can also choose to not show displays that appear at the default setting.





Highlight & Shadow display

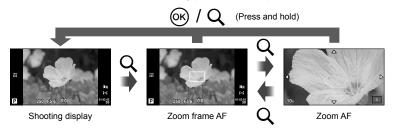
Use [Settings] to change the number of frames displayed on the monitor by index display.



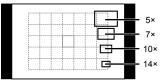
Index display

Zoom frame AF/zoom AF

You can zoom in on a portion of the frame when adjusting focus. Choosing a high zoom ratio allows you to use autofocus to focus on a smaller area than is normally covered by the AF target. You can also position the focus target more precisely. Q must be set to one of the buttons using [Button Function] (P. 78).



- 1 Press the Q button to display the zoom frame.
 - If the camera was focused using autofocus just before the button was pressed, the zoom frame will be displayed at the current focus position.
 - Use $\Delta \nabla \triangleleft \triangleright$ to position the zoom frame.
 - Press the **INFO** button and use $\Delta \nabla$ to choose the zoom ratio.



Comparison of AF and zoom frames

- 2 Press the Q button again to zoom in on the zoom frame.
 - Use $\Delta \nabla \triangleleft \triangleright$ to position the zoom frame.
 - · Rotate the control dial to choose the zoom ratio.
- **3** Press the shutter button halfway to initiate autofocus.

😢 Notes

- Autofocus is available and pictures can be taken both when the zoom frame is displayed and when the view through the lens is zoomed in. You can also perform AF operation with the view through the lens zoomed in. IS [LV Close Up Mode] (P. 73)
- · You can also display and move the zoom frame using touch screen operations.

⑦ Cautions

· Zoom is visible only in the monitor and has no effect on the resulting photographs.

Shutter speeds when the flash fires automatically [**4** X-Sync.] [**4** Slow Limit]

The relationship between the shutter speed when the flash fires and the setting values is as follows. The upper limit of synchronization timing is set by [**\$** X-Sync.], and the shutter speed locked when the flash fires (fixed timing when flash fires) is set by [**\$** Slow Limit].

Shooting mode	Flash timing	Upper limit of synchronization timing	Fixed timing when flash fires
Р	1/ (lens focal length × 2) or synchronization timing,		1/60
Α	whichever is slower	1/250*	1/00
S	The set shutter speed		
М	The set shutter speed		_

* 1/200 sec. when using an separately sold external flash unit

Adding effects to a movie [Movie Effect]

You can add effects to a movie using [Movie Effect]. Set [Movie Effect] to [On] in the menu before selecting the effects.

- **1** Select \mathfrak{A} as the shooting mode. \mathfrak{K} "Setting the Shooting mode" (P. 17)
- 2 Press the
 button to begin recording.
 - Press the
 button again to end recording.
- 3 Press the following buttons to use effects.

\bigtriangledown	Multi Echo	Apply an after-image effect. After-images will appear behind moving objects.
		An after-image will appear for a short time after you press the button. The after-image will disappear automatically after a while.
Fn	Art Fade	Film with the selected picture mode effect. The fade effect is applied to the transition between scenes.

Multi Echo

Press ∇ to apply movie effects. Press ∇ again to cancel the movie effects.

One Shot Echo

The effect is added each time \triangleright is pressed.

Art Fade

Press the **Fn** button and then rotate the control dial to select the picture mode. Press (e) or wait about 4 seconds for the effect to be applied.

Cautions

- The frame rate will drop slightly during recording.
- · The 2 effects cannot be applied simultaneously.
- Use a memory card with an SD speed class of 6 or better. Movie recording may end unexpectedly if a slower card is used.
- Taking a photograph during movie recording cancels the effect; the effect does not appear in the photograph.
- [Diorama] and Art Fade-in cannot be used simultaneously.
- · Button operation sounds may be recorded.

S Frequently-used options and customization

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.

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.

- Display the picture you wish to send full frame and 1 press (%).
- 2 Select [Send A Picture] and press @.
 - Select [Search] and press
 in the next dialog. The camera searches for and displays Bluetooth devices in range or in [Address Book].
- 3 Select the destination and press (%).
 - The image will be uploaded to the receiving device.
 - If prompted to provide a PIN code, enter 0000 and press (%).

Receiving images/adding a host

Connect to the transmitting device and download JPEG images

- Select [OLYMPUS PENPAL Share] in the 🕅 tab of 1 Accessory Port Menu (P. 90).
- 2 Select [Please Wait] and press (.
 - · 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 (...).
 - · The image will be downloaded to the camera.
 - · If prompted to provide a PIN code, enter 0000 and press (R).

es.	
Accessory Port Menu	
DI OLYMPUS PENPAL Share	
DI2 OLYMPUS PENPAL Album	
Electronic Viewfinder	
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Editing the address book

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

Real Accessory Port Menu (P. 90).

Press > and select [Address Book].

- Select [Address List] and press (.
 - · The names of existing hosts are listed.
- 3 Select the host you wish to edit and press .

Deleting hosts

Select [Yes] and press @.

Editing host information

Press in to display host information. To change the host name, press in 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 (%).
- 2 Select $[50 \rightarrow PENPAL]$ and press (∞) .
 - · To copy images from an OLYMPUS PENPAL to the memory card, select [FENPAL \rightarrow 55] and press \otimes .

(!) Cautions

· 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.

Accessory Port A	
Please Wait	
Address Book	
My OLYMPUS PENPAL	
Picture Send Size	1
Back 🖽	Set CK



1
Set C

OLYMPUS PENPAL Share

Option	Description	R\$
Please Wait	Receive images and add hosts to the address book.	88
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.	
My OLYMPUS PENPAL	Display information for your OLYMPUS PENPAL, including the name, address, and supported services. Press is to edit the device name.	89
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.	88

OLYMPUS PENPAL Album

MENU 🔶 🖙 🌩 🛐

Option	Description	ß
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.	89
Reset Protect	Remove protection from all pictures in the OLYMPUS PENPAL album.	89
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].	89
Album Mem. Setup	[All Erase]: Delete all pictures in the album. [Format Album]: Format the album.	89
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.	89

Electronic Viewfinder

MENU 🔿 코 🎝 🔂

Option	Description		R
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 $\triangleleft \triangleright$ to select color temperature ($[i]$) or brightness (\mathfrak{B}) and use $\triangle \nabla$ to choose from values between [+7] and [-7].	EVF Adjust	

4 Printing pictures

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 @ during playback and select [凸].
- 2 Select [凸] or [凸] and press 🛞.

Individual picture

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

All pictures

Select [出] and press .

3 Select the date and time format and press .

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.	



Print Order Setting

<u>р</u>

Back 🕬

4 Select [Set] and press ∞.

⑦ Cautions

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

Set 🖾

Removing all or selected pictures from the print order

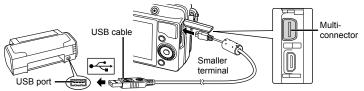
You can reset all print reservation data or just the data for selected pictures.

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

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. 73) in the camera custom menus.

2 Use $\Delta \nabla$ to select [Print].

- [One Moment] will be displayed, followed by a printmode 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. 93).

⑦ Cautions

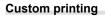
• 3D photos, RAW images, and movies cannot be printed.

USB	
Storage	
MTP	
 Print	
Exit	
	Set CK

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 .
 - To exit, unplug the USB cable from the camera while the picture selection screen is displayed.



1 Follow the operation guide to set a print option.

Selecting the print mode

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

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

Setting the print paper items

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

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



Selecting pictures you want to print

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



Print (<mark>OK</mark>)	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 $\triangleleft \triangleright$ 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.

Ц×	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.	
4	Trims the picture for printing. Use the dial to choose the crop size and $\Delta \nabla \triangleleft \triangleright$ to position the crop.	

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

Cancelling printing

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

Connecting the camera to a computer

Windows

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

Windows XP

• A "Setup" dialog will be displayed.

Windows Vista/Windows 7

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

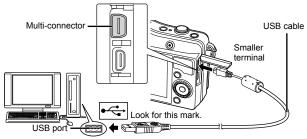
OLYMPUS	
Registration	There's you for purchasing this Clamport particles
Camera Instruction Manual	

⑦ Cautions

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

⑦ Cautions

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



⑦ Cautions

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

5

3 Register your Olympus product.

· Click the "Registration" button and follow the on-screen instructions.

4 Install OLYMPUS Viewer 2.

- · Check the system requirements before beginning installation.
- Click the "OLYMPUS Viewer 2" button and follow the on-screen instructions to install the software.

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

· See online help for information on using the software.

Macintosh

- 1 Insert the supplied CD in a CD-ROM drive.
 - The disk contents should automatically be displayed in the Finder. If they are not, double-click the CD icon on the desktop.
 - Double-click the "Setup" icon to display the "Setup" dialog.

2 Install OLYMPUS Viewer 2.

- Check the system requirements before beginning installation.
- Click the "OLYMPUS Viewer 2" button and follow the on-screen instructions to install the software.





OLYMPUS Viewer 2		
Operating System	Mac OS X v10.4.11-v10.7	
Processor	Intel Core Solo/Duo 1.5 GHz or better	
RAM	1 GB or more (2 GB or more recommended)	
Free Hard Drive Space	1 GB or more	
Monitor Settings	1024 × 768 pixels or more Minimum 32,000 colors (16,770,000 colors recommended)	

• Other languages can be selected from the language combo box. For information on using the software, see online help.

Copying pictures to a computer without OLYMPUS Viewer 2

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

Windows: Windows XP Home Edition/ Windows XP Professional/ Windows Vista/Windows 7 Macintosh: Mac OS X v.10.3 or later

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 $\Delta \nabla$ to select [Storage]. Press \otimes .



4 The computer recognizes the camera as a new device.

⑦ Cautions

- If you are using Windows Photo Gallery for Windows Vista or Windows 7, choose [MTP] in Step 3.
- Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.

Computers with a USB port added by means of an extension card, etc. Computers without a factory-installed OS Home-built computers

- Camera controls cannot be used while the camera is connected to a computer.
- If the dialog shown in Step 2 is not displayed when the camera is connected to a computer, select [Auto] for [USB Mode] (P. 73) in the camera custom menus.

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. ISE [Sleep] (P. 73)
 If no operations are performed for a set time (5 minutes) after the camera has entered sleep mode, the camera will turn off automatically.

The flash is charging

 On the monitor, the 4 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

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



Subjects at different distances

	212
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Excessively bright light in center of frame



Fast-moving subject



Subject containing no vertical lines



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].
 Image [Noise Reduct.] (P. 74)

The number of AF targets is reduced

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

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

The battery has been removed from the camera

 The date and time settings will be returned to the factory default settings if the camera is left without the battery for approximately 1 day. The settings will be cancelled more quickly if the battery was only loaded in the camera for a short time before being removed. Before taking important pictures, check that the date and time settings are correct.

Set functions are restored to their factory default settings

In modes other than P, A, S, and M, default settings are restored when another shooting mode is selected or the camera is turned off.

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. If a lens hood does not have offect, use your hand to shade the lens from the light.

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

This may be due to stuck pixel(s) on the image pickup device. Perform [Pixel Mapping]. If the problem persists, repeat pixel mapping a few times. I represent the image processing functions" (P. 103)

Functions that cannot be selected from menus

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

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

Error codes

Monitor indication	Possible cause	Corrective action
No Card	The card is not inserted, or it cannot be recognized.	Insert a card or insert a different card.
Card Error	There is a problem with the card.	Insert the card again. If the problem persists, format the card. If the card cannot be formatted, it cannot be used.
Write Protect	Writing to the card is prohibited.	The card write-protect switch is set to the "LOCK" side. Release the switch. (P. 105)
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 Setup Clean the contact are of the card win a dy clean. Clean Card Format Set C3	Card cannot be read. Card may not have been formatted.	 Select [Clean Card], press ⊗ and turn off the camera. Remove the card and wipe dry the metallic surface with a soft, dry cloth. Select [Format] ▶ [Yes], and then press
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.
Picture Error	Images cannot be transferred between devices that are currently receiving or transmitting data.	Increase the amount of memory available on the card, for example by deleting unwanted images, or choose a smaller size for the images being transmitted.

Monitor indication	Possible cause	Corrective action
₽°C/°F		Turn off the camera and wait for the internal temperature to cool.
Internal camera temperature is too high. Please wait for cooling before camera use.	The internal temperature of the camera has risen due to sequential shooting.	Wait a moment for the camera to turn off automatically. Allow the internal temperature of the camera to cool before resuming operations.
Battery Empty	The battery is drained.	Charge the battery.
No Connection	The camera is not correctly connected to a computer, printer, HDMI display, or other device.	Reconnect the camera.
No Paper	There is no paper in the printer.	Load some paper in the printer.
No lnk	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. 13)
Please check the status of a lens.	An abnormality has occurred between the camera and the lens.	Turn off the camera, check the connection with the lens, and turn the power on again.

Cleaning and storing the camera

Cleaning the camera

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

Exterior:

 Wipe gently with a soft cloth. If the camera is very dirty, soak the cloth in mild soapy water and wring well. Wipe the camera with the damp cloth and then dry it with a dry cloth. If you have used the camera at the beach, use a cloth soaked in clean water and well wrung.

Monitor:

· Wipe gently with a soft cloth.

Lens:

• Blow dust off the lens with a commercially available blower. For the lens, wipe gently with a lens cleaning paper.

Storage

- When not using the camera for a prolonged period, remove the battery and card. Store the camera in a cool, dry place that is well ventilated.
- Insert the battery periodically and test the camera's functions.
- Remove dust and other foreign matter from the body and rear caps before attaching them.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached. Be sure to replace the front and rear lens caps before putting the lens away.
- · Clean the camera after use.
- · Do not store with insect repellent.

Cleaning and checking the image pickup device

This camera incorporates a dust reduction function to keep dust from getting on the image pickup device and to remove any dust or dirt from the image pickup device surface with ultrasonic vibrations. The dust reduction function operates when the camera is turned on.

The dust reduction function operates at the same time as the pixel mapping, which checks the image pickup device and image processing circuitry. Since dust reduction is activated every time the camera's power is turned on, the camera should be held upright for the dust reduction function to be effective.

⑦ Cautions

- Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.
- Avoid storing the camera in places where chemicals are treated, in order to protect the camera from corrosion.
- · Mold may form on the lens surface if the lens is left dirty.
- Check each part of the camera before use if it has not been used for a long time. Before taking important pictures, be sure to take a test shot and check that the camera works properly.

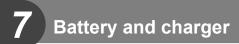
Pixel Mapping - Checking the image processing functions

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

- 1 Select [Pixel Mapping] in 🌯 Custom Menu (P. 77) tab 🛐.
- **2** Press \triangleright , then press \odot .
 - The [Busy] bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.

⑦ Cautions

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



Battery and charger

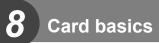
- Use the single Olympus lithium-ion battery. Use only genuine OLYMPUS rechargeable batteries.
- The camera's power consumption varies widely with usage and other conditions.
- As the following consume a lot of power even without shooting, the battery will be drained quickly.
 - Performing auto focus repeatedly by pressing the shutter button halfway in shooting mode.
 - · Displaying images on the monitor for a prolonged period.
 - · When connected to a computer 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.

⑦ Cautions

 There is a risk of explosion if the battery is replaced with the incorrect battery type. Dispose of the used battery following the instructions "Battery Handling Precautions" (P. 122).

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.

⑦ Cautions

- The data in the card will not be erased completely even after formatting the card or deleting the data. When discarding, destroy the card to prevent leakage of personal information.
- "FlashAir" SD cards have built-in wireless LAN and cannot be formatted. Use the software supplied with the FlashAir card to format the card.
- Use the FlashAir or Eye-Fi card in compliance with the laws and regulations of the country where the camera is used. Remove the FlashAir or Eye-Fi card from the camera or disable the card functions in airplanes and other locations where use is prohibited. (Using the Smartphone connection option (P. 68), Custom Menu [Eye-Fi] (P. 78))
- The FlashAir or Eye-Fi card may become hot during use.
- When using a FlashAir or Eye-Fi card, the battery may run out faster.
- · When using a FlashAir or Eye-Fi card, the camera may function more slowly.
- If you set the write protect switch of a FlashAir card to the "LOCK" side, you will not be able to use the wireless LAN function.







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.



7

🕖 Cautions

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

2

(1)

3

4

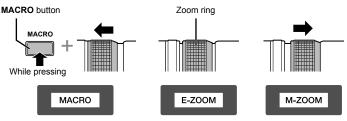
M.ZUIKO DIGITAL lens specifications

Names of parts

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

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

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



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

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

Lens and camera combinations

Lens	Camera	Attachment	AF	Metering
Micro Four Thirds system lens		Yes	Yes	Yes
Four Thirds system lens	Micro Four Thirds system camera	Attachment possible with	Yes*1	Yes
OM System lenses		mount adapter	No	Yes*2
Micro Four Thirds system lens	Four Thirds System Camera	No	No	No

*1 [C-AF] and [C-AF+TR] of [AF Mode] cannot be used.

*2 Accurate metering not possible.

Main lens specifications

Items	14-42mm f3.5-5.6 II R	ED40-150mm f4.0-5.6R	ED14-150mm f4.0-5.6	ED12-50mm f3.5-6.3EZ	
Mount	Micro Four Thirds mount				
Focal length	14-42 mm	40-150 mm	14-150 mm	12-50 mm	
Max. aperture	f/3.5-5.6	f/4.0-5.6	f/4.0-5.6	f/3.5-6.3	
Image angle	75°–29°	30.3°-8.2°	75°-8.2°	84°-24°	
Lens configuration	7 groups, 8 lenses	10 groups, 13 lenses	11 groups, 15 lenses	9 groups, 10 lenses	
Iris control	f/3.5–22	f/4.0-22	f/4.0-22	f/3.5–22	
Shooting range (Focal length)	0.25m-∞ (14-19mm) 0.3m-∞ (20-42mm)	0.9m-∞	0.5m-∞	0.35m-∞ 0.2m-0.5m (macro mode)	
Focus adjustment	AF/MF switching				
Weight (excluding hood and cap)	113g	190 g	260 g	212g	
Dimensions (Max. diameter × length)	ø56.5×50 mm	ø63.5×83 mm	ø63.5×83 mm	ø57×83 mm	
Filter mount thread diameter	37 mm	58 mm	58 mm	52 mm	

⑦ Cautions

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

Information

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		Loss-less compression	ORF	Approx. 17	41
SF		1/2.7		Approx. 11	79
O F	4608×3456	1/4		Approx. 7.5	114
I N		1/8		Approx. 3.5	248
B		1/12		Approx. 2.4	369
MSF		1/2.7		Approx. 5.6	155
MF	3200×2400	1/4		Approx. 3.4	257
MN	5200^2400	1/8		Approx. 1.7	508
MB		1/12		Approx. 1.2	753
MSF		1/2.7		Approx. 3.2	271
MIF	2560×1920	1/4		Approx. 2.2	398
MN	2560×1920	1/8		Approx. 1.1	782
MB		1/12		Approx. 0.8	1151
MSF		1/2.7	JPEG	Approx. 1.8	476
MIF	1920×1440	1/4		Approx. 1.3	701
MN		1/8		Approx. 0.7	1356
MB		1/12		Approx. 0.5	1968
MSF		1/2.7	JPEG	Approx. 1.3	678
MF	1600×1200	1/4		Approx. 0.9	984
MN	1600×1200	1/8		Approx. 0.5	1906
MB		1/12		Approx. 0.4	2653
SSF		1/2.7		Approx. 0.9	1034
SF	1280×960	1/4		Approx. 0.6	1488
SN		1/8		Approx. 0.4	2773
SB		1/12		Approx. 0.3	3813
SSF	=1024×768	1/2.7		Approx. 0.6	1564
SF		1/4		Approx. 0.4	2260
SN		1/8		Approx. 0.3	4068
SB		1/12		Approx. 0.2	5547
SSF	F 640×480	1/2.7		Approx. 0.3	3589
SF		1/4		Approx. 0.2	5085
SIN		1/8		Approx. 0.2	7627
SB		1/12		Approx. 0.1	10170

*Assumes a 1GB SD card.

(!) Cautions

- · The number of storable still pictures may change according to the subject, whether or not print reservations have been made, and other factors. In certain instances, the number of storable still pictures displayed on the monitor will not change even when you take pictures or erase stored images.
- · The actual file size varies according to the subject.
- The maximum number of storable still pictures displayed on the monitor is 9999.
- · For the available recording time for movies, see the Olympus website.

Using 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.

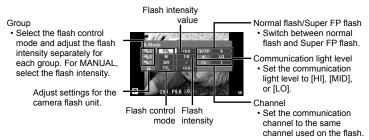
Optional flash	Flash control mode	GN (Guide number) (ISO100)	RC mode
FL-600R	TTL-AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL	GN36 (85 mm*) GN20 (24 mm*)	~
FL-300R	TTL-AUTO, MANUAL	GN20 (28 mm*)	~
FL-14	TTL-AUTO, AUTO, MANUAL	GN14 (28 mm*)	_
RF-11		GN11	-
TF-22	TTL-AUTO, MANUAL	GN22	-

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 control the supplied flash unit and remote flash units in up to three separate groups. 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. 111).
 - The super control panel switches to RC mode.
 - You can choose a super control panel display by repeatedly pressing the INFO button.
 - · Select a flash mode (note that red-eye reduction is not available in RC mode).

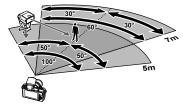
3 Adjust the settings for each group in the super control panel.



- 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.



⑦ Cautions

- · We recommend using a single group of up to three remote flash units.
- Remote flash units cannot be used for second curtain slow synchronization or anti-shock exposures longer than 4 seconds.
- If the subject is too close to the camera, the control flashes emitted by the supplied flash may affect exposure (this effect can be reduced by reducing the output of the supplied flash by, for example, using a diffuser).
- The upper limit of flash synchronization timing is 1/160 sec. when using the flash in remote control 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 camera hot shoe X-contact will damage the camera.
- Connecting flash units with signal contacts that do not conform to Olympus specifications may damage the camera.
- Use only with the camera in shooting mode **M** at shutter speeds slower than 1/160 s and at ISO settings 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.

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	Fun	ction		Default	*1	*2	*3	R ²
D i	Card Setup				·	-	-	58
1 -1	Reset/Myset			_		~		58
	Picture Mode			3 Natural	-	Ĵ	-	47
		Still Pictu	re		Ť	•	•	
	4 :	Movie		MOV FullHD2	~	~	-	51
	Image Aspect			4:3				50
	Digital Tele-converter			Off	~	~	~	64
C 2					~	~	~	35
-2		Still Pictu	ro	S-IS1	~	~		
	Image Stabilizer	hage Stabilizer Movie		M-IS2	~	~	~	46
			Off	~	~	~	62	
		AEDRI			-			02
		WB BKT	G-M	Off				62
	D I I'		G-10	0"	-			
	Bracketing	FL BKT		Off	~	~	· ·	62
		ISO BKT		Off				63
		ART BKT		Off				63
		HDR BKT	-	Off				63
		Frame		Off				
	Multiple Exposure	Auto Gair	1	Off		-	-	63
		Overlay		Off				
	RC Mode			Off	~	~	>	109

Playback Menu

Tab	-	Function		Default	*1	*2	*3	R3
►		Start		_				
		BGM		Melancholy	1	~	~	
		Effect		Fade	1	~	٢	41
	Ŀ	Slide		All]	~	٢	41
		Slide Interval		3 sec]	~		
		Movie Interval		Short		~		
	fi -			On		~	>	65
			RAW Data Edit	—				65
	Edit	Sel. Image	JPEG Edit	—				66
			Ŷ	—				67
		Image Overlay		—				67
	凸			_				91
	Reset Pro	tect	ct					67
	Connectio	n to Smartphone	9	_				68

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Y Setup Menu

Tab	Funct	Function			*2	*3	R ³
ŕ	0	0					16
	€ ∠≡ *	₽.≡*					69
					~	٢	69
	Rec View		0.5 sec	>	>	٢	69
	♣,/॑, Menu Display	🍇 Menu Display	Off				69
		Menu Display	Off	`			09
	Firmware		—				69

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

🎭 Custom Menu

Та	b	F	unction	Det	fault	*1	*2	*3	ß
*.	₽Å	AF/MF		1					
		AF Mode	Still Picture	S-AF					
		AF MODE	Movie	C–AF		~	~	~	
		Full-time A	F	Off		>	>	>	
				S-AF	mode1				
		AEL/AFL		C-AF	mode2	~	~	~	
				MF	mode1				
		Reset Lens	3	On			~	~	71
		BULB/TIM	E Focusing	On			~	>	
		Focus Ring]	С С		~	~	~	
		MF Assist		Off		>	>		
		[•••] Set Ho		[~	~	
		AF Illumina		On		~	~	~	
			ace Priority		~	~			
	₽B	Button/Dial				-		-	
			[Fn]Function	LIVE GUIDE					
			Function	REC					
		Button	⊳Function	4] *	ľ	•	
		Function		11/10					
			u∰ Function	Direct Functio	n	~	~	~	
			L-Fn Function	AF Stop		~	~	~	71
			Р						
		Dial	A	FNo.					
		Function	S	Shutter		·	~		
			М	Shutter		4			
			Þ	B Q					
		Dial	Exposure	Dial1					
		Direction	Menu	Dial1		Ľ	Ľ		72
		Cock		On		•	~		

Tab	F	unction	Default	*1	*2	*3	ß
*, 🛾	Release/	<u></u>					
	RIs Priority	S	Off	~	~	~	
	RIs Priority	С	On	~	~	~	
	L fps		3 fps	~	~	~	
	H fps		8 fps	~	~	~	72
		ff	On		~		
	Lens I.S. P		Off	~	~	~	
0	Disp/∍))/P		-			<u> </u>	
		HDMI Out	1080i		~		
	HDMI	HDMI Control	Off		~		
	Video Out		_				
		IAUTO	Live Guide		~		
	Control	P/A/S/M	Live Control		~		
	Settings	ART	Art Menu		~		72
		SCN	Scene Menu		~		
		► Info	Image Only, Overall	~	~	~	
	/Info	LV-Info	Image Only,	~	~		
	Settings	Settings	25 , Calendar	~	~		
	Displayed (Off	~	~		
	Picture Mo		On	~	~		
	Histogram	Highlight	255				
	Settings	Shadow	0		~		
	Mode Guide C		On		~		
	Live View E	Boost	Off	~	~	~	
	Frame Rate	e	Normal	~	~	~	70
	Art LV Mod	е	mode1		~		73
	Flicker redu	uction	Auto		~		
	LV Close U	p Mode	mode1		~		
	Backlit LCE)	Hold	~	~	~	
	Sleep		1 min	~	~	~	
	■)))		On	~	~	~	
	USB Mode		Auto		~	~	
P	Exp/ NIS	C					
	EV Step		1/3EV	~	~	~	
	Noise Redu	uct.	Auto	~	~	~	
	Noise Filter		Standard		~	-	
	ISO		Auto		~	-	
	ISO Step		1/3EV		~	~	
			High Limit: 1600		Ť		
	ISO-Auto S	et	Default: 200	~	~	~	74
	ISO-Auto		P/A/S	~	~		14
	Metering			-	~	~	
	AEL Meteri	ng	Auto	~	~	~	
	BULB/TIME		8 min	~	~	~	
	Live BULB		Off	~	~		
	Live TIME		1 sec	-	~		
	Anti-Shock	[+]	Off		~	~	

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Ta	b	F	unction	D	efault	*1	*2	*3	R ^a
≉₀	¢ _F	& Custom							
		X-Sync.		1/250		~	~	~	
		5 Slow Limit		1/60	1/60		~	~	75
		572+22		Off		-	~	~	
	₽G	€-/Color/V	VB	1					
		∢ - Set			_	~	~	~	
		Pixel	Middle	2560×1920					
		Count	Small	1280×960		~ ~	~	`	75
		Shading Co	omp.	Off		~	~	~	
		WB		Auto	A:0, G:0	~	~	~	
			All Set		<u> </u>	~	~		
		All WB1/2	All Reset		_		~		
		AUTO Keep V	Varm Color	On		~	~	~	76
		\$ +WB		WB Auto		~	~	1	
		Color Spac	e	sRGB		~	~	~	
	۴H	Record/Era	ise						
		Quick Eras	e	Off		~	~	~	
		RAW+JPE	G Erase	RAW+JPEG	EG		~	<	
		File Name		Reset		~			76
		Edit Filena		Off			~		70
		Priority Set		No			~	>	
		dpi Settings		350dpi			~		
		Copyright	Copyright Info.	Off			~		
		Settings	Artist Name		_				77
		, united and a second s	Copyright Name		—				
	۹	Movie							
		₽ Mode		Р			~	~	
		Movie 🍨		On		~	~	~	
		Movie Effe		Off			~		77
			Reduction	Off			~		
		Recording	Volume	Standard			~		
	۴J	D Utility							
		Pixel Mapping							
		Exposure		-					77
		Shift		±0		ľ	1		
		💶 Warni	ng Level	±0			~		
			en Settings	On		~	~		78
		Eye-Fi		On			>		

10 Information

Accessory Port Menu

Та	b	F	unction	Default	*1	*2	*3	ß
Ģ	7 A	OLYMPUS	PENPAL Share	•				
		Please Wa	it	_				88, 90
		Addamaa	Address List	—				
		Address Book	Search Timer	30 sec		~		1
		DOOK	New Pairing	—				90
		My OLYMP	PUS PENPAL	—				
		Picture Ser	nd Size	Size 1: Small		~		
	FB	OLYMPUS	PENPAL Album	•				
		Copy All		—				
		Reset Prote	ect	_]
		Album Men	n. Usage	_				90
		Album Men	n. Setup	—				
		Picture Cop	by Size	Size 2: Medium		~		
	™ C	Electronic \	Viewfinder					
		EVF Adjust		l ±0, ☆ ±0		~	-	90

Specifications

■ Camera

Product type	
Product type	Digital camera with interchangeable Micro Four Thirds Standard lens
	system
Lens	M.Zuiko Digital, Micro Four Thirds System Lens
Lens mount	Micro Four Thirds mount
Equivalent focal length on	Approx. twice the focal length of the lens
a 35 mm film camera	
Image pickup device	
Product type	4/3" Live MOS sensor
No. of total pixels	Approx. 17,200,000 pixels
No. of effective pixels	Approx. 16,050,000 pixels
Screen size	17.3 mm(H) × 13.0 mm(V)
Aspect ratio	1.33 (4:3)
Live view	
Sensor	Uses Live MOS sensor
Field of view	100%
Monitor	
Product type	3.0" TFT color LCD, touch screen
Total no. of pixels	Approx. 460,000 dots (aspect ratio 16:9)
Shutter	
Product type	Computerized focal-plane shutter
Shutter	1/4000–60 sec., bulb photography, time photography
Auto focus	in tood too beed, build priotography, and priotography
Product type	Imager contrast detection system
Focusing points	35 points
Selection of focusing points	Auto, Optional
Exposure control	
Metering system	TTL metering system (imager metering)
Wetering system	Digital ESP metering/Center weighted averaging metering/Spot metering
Metered range	EV 0 - 20 (Digital ESP metering/Center weighted averaging metering/
-	Spot metering)
Shooting modes	fAUTO: iAUTO/P: Program AE (Program shift can be performed)/
-	A: Aperture priority AE/S: Shutter priority AE/M: Manual/ART: Art filter/
	SCN: Scene/@: Movie
ISO sensitivity	200 - 25600 (1/3, 1 EV step)
Exposure compensation	±3EV (1/3, 1/2, 1 EV step)
White balance	There are the transmission of the transmission
Product type	Image pickup device
Mode setting	Auto/Preset WB (7 settings)/Customized WB/One-touch WB
Recording	PD/PDUC/PDVC/Eve Ei eerd (europerte UUIC I)
Memory	SD/SDHC/SDXC/Eye-Fi card (supports UHS-I)
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,
P	PictBridge
Sound with still pictures	Wave format
Movie	MPEG-4 AVC/H.264 / Motion JPEG
Audio	Stereo, PCM 48kHz
Playback	
Display format	Single-frame playback/Close-up playback/Index display/Calendar display
Drive	
Drive mode	Single-frame shooting/Sequential shooting/Self-timer
Sequential shooting	
Self-timer	Operation time: 12 sec./2 sec./Customized

Flash				
Flash control mode	TTL-AUTO (TTL pre-flash mode)/MANUAL			
Sync speed	1/250 s or slower			
External connector				
Multi-connector (USB connector	ector, AV connector)/HDMI micro connector (type D)/Accessory port			
Power supply				
Battery	Li-ion Battery ×1			
Dimensions/weight				
Dimensions	109.8 mm (W) × 64.2 mm (H) × 33.8 mm (D) (4.3" × 2.5" × 1.3")			
	(excluding protrusions)			
Weight	Approx. 269 g (0.6 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)			

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



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-5
Product type	Rechargeable Lithium ion battery
Nominal voltage	DC 7.2 V
Nominal capacity	1150 mAh
No. of charge and discharge times	Approx. 500 times (varies with usage conditions)
Ambient temperature	0 °C - 40 °C (32 °F - 104 °F) (charging)
Dimensions	Approx. 35.5 mm (W) × 12.8 mm (H) × 55 mm (D) (1.4" × 0.5" × 2.2")
Weight	Approx. 44 g (0.1 lb.)

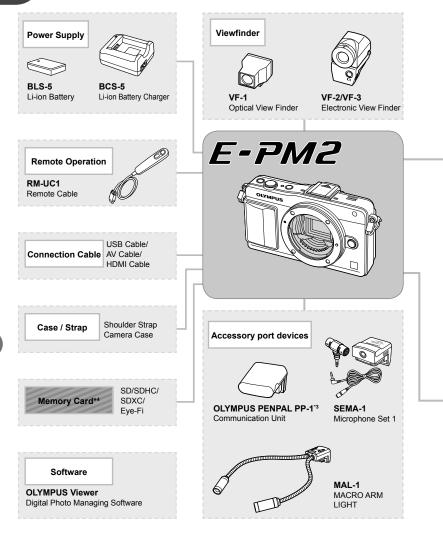
Lithium ion charger

MODEL NO.	BCS-5
Rated input	AC 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 (0.2 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.

11 System chart



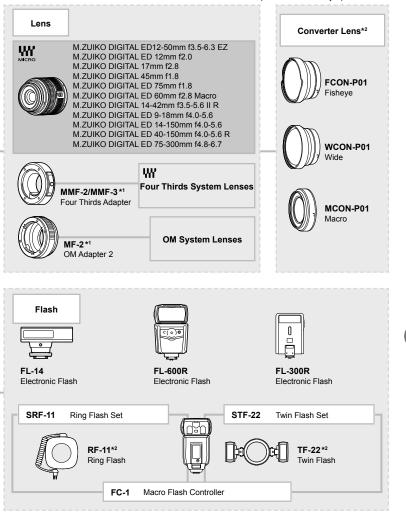
- *1 Not all lenses can be used with adapter. For details, refer to the Olympus Official Web Site. Also, please note that manufacture of OM System Lenses has been discontinued.
- *2 For compatible lens, refer to the Olympus Official Web Site.

System chart

: E-PM2 compatible products

: Commercially available products

For the latest information, please visit the Olympus website.



- *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.
- *4 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.

System chart

Principal Accessories

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

The camera requires MMF-2 Four Thirds lens adapter to attach Four Thirds lenses. Some features, such as autofocus, may not be available.

Remote cable (RM–UC1)

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

Converter lenses

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

Use the appropriate lens attachment for SCN mode (Di, Di, or Di).

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)

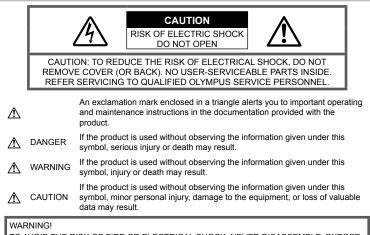
The microphone can be placed at a distance from the camera to avoid recording ambient sounds or wind noise. Third-party commercial microphones can also be used depending on your creative intent. We recommend that you use the supplied extension cord. (power supplied via ø3.5 mm stereo mini-plug)

Electronic viewfinder (VF-2/VF-3)

Electronic viewfinder can be used to view the shooting display. This is convenient when you are in a very bright location, such as under direct sunlight, where it is difficult to view the monitor, or are using the camera at a low angle.

12 SAFETY PRECAUTIONS

SAFETY PRECAUTIONS



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

General Precautions

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

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

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

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

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

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

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

Heat — Never use or store this product near any heat source such as a radiator, heat register,

stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.

Product Handling Precautions

A WARNING

- Do not use the camera near flammable or explosive gases.
- Do not use the flash and LED on people (infants, small children, etc.) at close range.

You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.

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

 Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.

Never remove the batteries with bare hands, which may cause a fire or burn your hands.

- Never hold or operate the camera with wet hands.
- Do not leave the camera in places where it may be subject to extremely high temperatures.

Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire.

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.

Be careful with the strap.

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

Battery Handling Precautions

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

\land DANGER

 The camera uses a lithium ion battery specified by Olympus. Charge the battery with the specified charger. Do not use any other chargers.

- Never heat or incinerate batteries.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, etc.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, by soldering, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- Always store batteries out of the reach of small children. If a child accidentally swallows a battery, seek medical attention immediately.
- Should you notice that the charger is emitting smoke, heat, or an unusual noise or smell, immediately cease use and unplug the charger from the power outlet, and then contact an authorized distributor or service center.

🗥 WARNING

· Keep batteries dry at all times.

- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Insert the battery carefully as described in the operating instructions.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use a battery if it is cracked or broken.
- If a battery leaks, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Never subject batteries to strong shocks or continuous vibration.

- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.

- Always unload the battery from the camera before storing the camera for a long period.
- This camera uses a lithium ion battery specified by Olympus. Do not use any other type of battery. For safe and proper use, read the battery's instruction manual carefully before using it.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- The number of pictures you can take may vary depending on the shooting conditions or battery.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.
- When the camera will not be used for an extended period, store it in a cool place.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.

Caution for Usage Environment

- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
 - Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
 - · In sandy or dusty environments.
 - Near flammable items or explosives.
 - In wet places, such as bathrooms or in the rain. When using products with weatherproof designs, read their manuals as well.
 - · In places prone to strong vibrations.
- Never drop the camera or subject it to severe shocks or vibrations.
- When mounted on a tripod, adjust the position of the camera with the tripod head. Do not twist the camera.

- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image pickup device, or may possibly cause fires.
- Do not touch electric contacts on cameras and interchangeable lenses. Remember to attach the body cap when removing the lens.
- Before storing the camera for a long period, remove the battery. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter release button to make sure that it is operating normally.
- The camera may malfunction if it is used in a location where it is subject to a magnetic/ electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the camera off and on again before further operation.
- Always observe the operating environment restrictions described in the camera's manual.
- Do not directly touch or wipe the image pickup device of the camera.

Monitor

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

- In the unlikely event that the monitor breaks, do not put the liquid crystal in your mouth. Any of the material adhering to your hands, feet, or clothing should be rinsed off immediately.
- A strip of light may appear on the top/bottom of the monitor, but this is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear zigzagged on the monitor. This is not a malfunction; it will be less noticeable in playback mode.
- In places subject to low temperatures, the monitor may take a long time to turn on or its color may change temporarily.
 When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. An monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The monitor is made with high-precision technology. However, black spots or bright spots of light may appear constantly on the monitor.

Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.

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

Legal and Other Notices

- Olympus makes no representations or warranties regarding any damages, or benefit expected by using this unit lawfully, or any request from a third person, which are caused by the inappropriate use of this product.
- Olympus makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.

Disclaimer of Warranty

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

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

Radio and Television Interference Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment. 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:

- · Adjust or relocate the receiving antenna.
- Increase the distance between the camera and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult your 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 (PC).

Any unauthorized changes or modifications to this equipment would void the user's authority to operate it.

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

For customers in North and South America

For customers in USA

Declaration of Conformity Model Number : E-PM2 Trade Name : OLYMPUS Responsible Party : **ODYMPUS IMAGING AMERICA INC.** Address : 3500 Corporate Parkway, P. O. Box 610, Center Valley, PA 18034-0610, USA Telephone Number : 484-896-5000 Tested To Comply With FCC Standards FOR HOME OR OFFICE USE This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

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

For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

OLYMPUS WORLDWIDE LIMITED WARRANTY - IMAGING PRODUCTS

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

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

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

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

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

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

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

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY

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

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

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

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

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

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

Representations and warranties made by any person, including but not limited to dealers, representatives, salespersons, or agents of Olympus, which are inconsistent or in conflict with or in addition to the terms of this limited warranty, shall not be binding upon Olympus unless reduced to writing and approved by an expressly authorized officer of Olympus. This limited warranty is the complete and exclusive statement of warranty which Olympus agrees to provide with respect to the Products and it shall supersede all prior and contemporaneous oral or written agreements, understandings, proposals, and communications pertaining to the subject matter hereof. This limited warranty is exclusively for the benefit of the original customer and cannot be transferred or assigned.

WHAT TO DO WHEN SERVICE IS NEEDED

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

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

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

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

- Sales receipt showing date and place of purchase.
- 2 Copy of this limited warranty bearing the Product serial number corresponding to the serial number on the Product (unless it is a model on which Olympus does not place and record serial numbers).
- 3 A detailed description of the problem.
- 4 Sample prints, negatives, digital prints (or files on disk) if available and related to the problem.

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

WHERE TO SEND PRODUCT FOR SERVICE

See "WORLDWIDE WARRANTY" for the nearest service center.

INTERNATIONAL WARRANTY SERVICE

International warranty service is available under this warranty.

For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe. 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

 If this product proves to be defective, although it has been used properly (in accordance with the written Handling Care and Operating instructions supplied with it), during the applicable national warranty period and has been purchased from an authorized Olympus distributor within the business area of Olympus Europa Holding GmbH as stipulated on the website: http://www.olympus.com this product will be repaired, or at Olympus's option replaced, free of charge. To claim under this warranty the customer must take the product before the end of the applicable national warranty period to the dealer where the product was purchased or any other Olympus service station within the business area of Olympus Europa Holding GmbH as stipulated on the website: http://www.olympus. com. During the one year period of the World

Wide Guarantee the customer may turn the product in at any Olympus service station. Please notice that not in all countries such Olympus service station exists.

2 The customer shall transport the product to the dealer or Olympus authorized service station at his own risk and shall be responsible for any costs incurred in transporting the product.

Provisions of Guarantee

- 1 "OLYMPUS IMAGING CORP., Shinjuku Monolith, 2-3-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0914, Japan grants a one year World Wide Guarantee. This worldwide Guarantee must be presented at an Olympus authorized repair service station before any repair can be made under conditions of this Guarantee. This Guarantee is valid only if the Guarantee Certificate and proof of purchase are presented at the Olympus repair service station. Please note that this Guarantee is in addition to and does not affect the customer's legal warranty rights under the applicable national legislation governing the sale of consumer goods mentioned above.
- 2 This Guarantee does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the Guarantee period referred to above.
 - (a) Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Handling Care or other sections of the instructions, etc.)
 - (b) Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.
 - (c) Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
 - (d) Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.
 - (e) Any defect that occurs due to careless or improper storage (such as keeping the product under conditions of high temperature and humidity, near insect repellents such as naphthalene or harmful drugs, etc.), improper maintenance, etc.
 - (f) Any defect that occurs due to exhausted batteries, etc.
 - (g) Any defect that occurs due to sand, mud, etc. entering the inside of the product casing.
 - (h) When the Guarantee Certificate is not returned with the product.

- (i) When any alterations whatsoever are made to the Guarantee Certificate regarding the year, month and date of purchase, the customer's name, the dealer's name, and the serial number.
- (j) When proof of purchase is not presented with this Guarantee Certificate.
- 3 This Guarantee applies to the product only; the Guarantee does not apply to any other accessory equipment, such as the case, strap, lens cap and batteries.
- 4 Olympus's sole liability under this Guarantee shall be limited to repairing or replacing the product. Any liability under the Guarantee for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect of the product, and in particular any loss or damage caused to any lenses, films, other equipment or accessories used with the product or for any loss resulting from a delay in repair or loss of data, is excluded. Compelling regulations by law remain unaffected by this.

Notes regarding Guarantee maintenance

- This Guarantee will only be valid if the Guarantee Certificate is duly completed by Olympus or an authorized dealer or other documents contain sufficient proof. Therefore, please make sure that your name, the name of the dealer, the serial number and the year, month and date of purchase are all completed or the original invoice or the sales receipt (indicating the dealer's name, the date of purchase and product type) is attached to this Guarantee Certificate. Olympus reserves the right to refuse free-of-charge service if neither Guarantee Certificate is completed nor the above document is attached or if the information contained in it is incomplete or illegible.
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