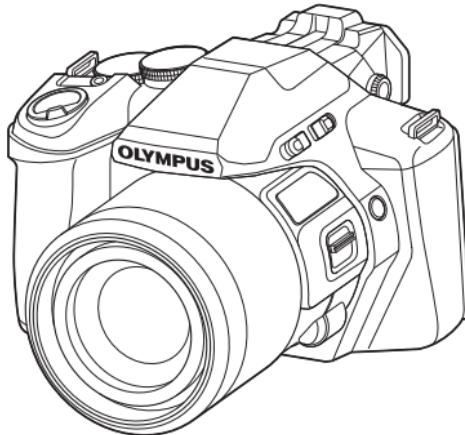


OLYMPUS®

DIGITAL CAMERA

SP-100EE

Instruction Manual



- 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.

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.



Digital camera



Strap



Lithium Ion Battery
(LI-92B)



OLYMPUS Setup
CD-ROM



Lens cap and
lens cap strap



or



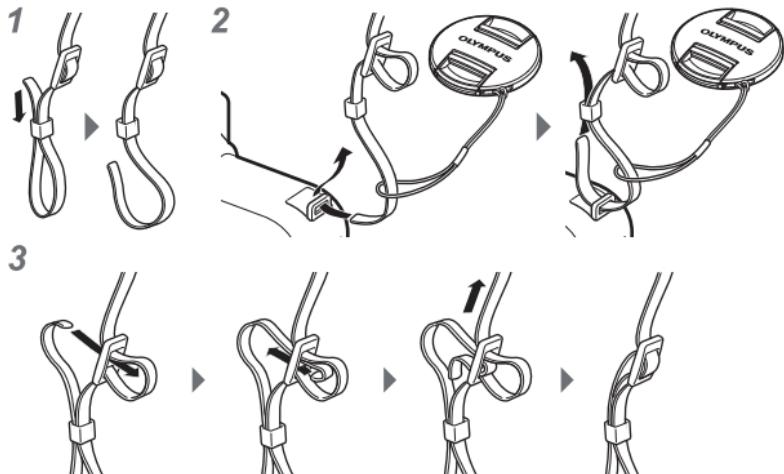
USB-AC adapter (F-2AC)



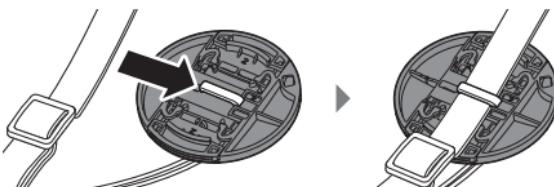
USB cable (CB-USB8)

Other accessories not shown: Warranty card
Contents may vary depending on purchase location.

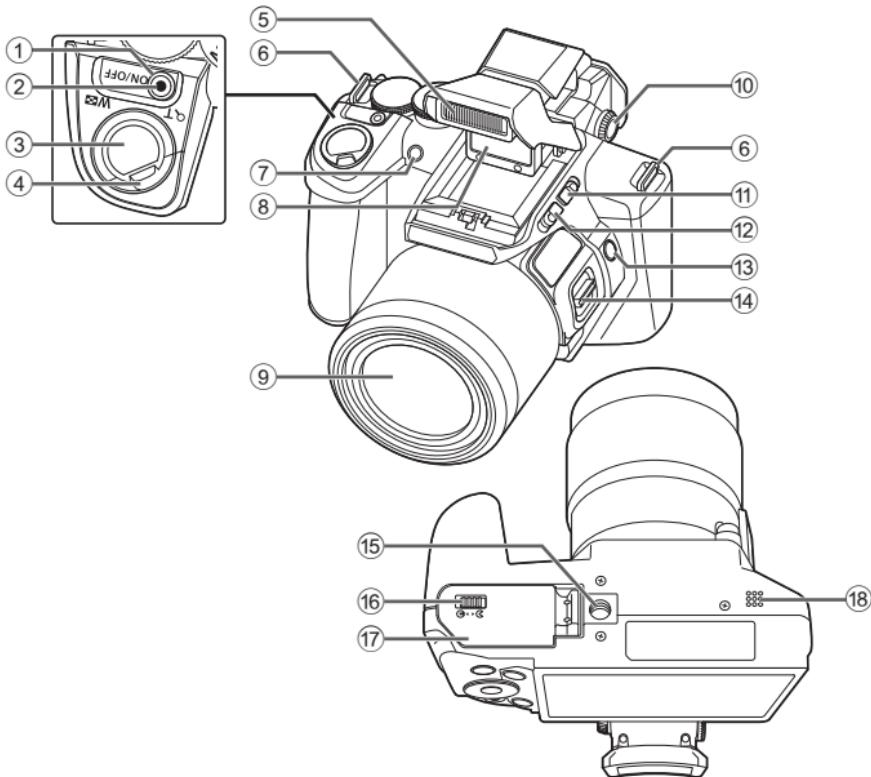
Attaching the camera strap



- Attach the strap to the other eyelet in the same manner.
- Pull the strap tight so that it does not come loose.
- You can attach the lens cap to the strap.

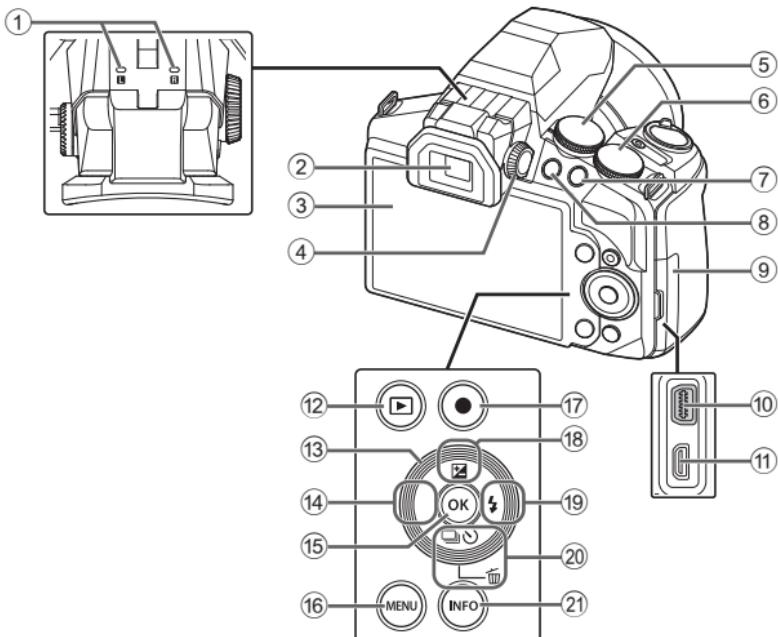


Names of parts



- ① ON/OFF button
- ② Indicator lamp
- ③ Shutter button
- ④ Zoom lever
- ⑤ Built-in flash
- ⑥ Strap eyelet
- ⑦ Self-timer lamp/AF illuminator
- ⑧ Dot sight
- ⑨ Lens
- ⑩ Diopter adjustment dial

- ⑪ Dot sight switch
- ⑫ Flash switch
- ⑬ AFL/FOCUS LIMIT button
- ⑭ Side zoom lever
- ⑮ Tripod socket
- ⑯ Battery/card compartment lock
- ⑰ Battery/card compartment cover
- ⑱ Speaker



- ① Stereo microphone
- ② Viewfinder (EVF)
- ③ Monitor
- ④ Dot sight adjustment dial
- ⑤ Mode dial
- ⑥ Control dial
- ⑦ Fn button
- ⑧ (EVF) button
- ⑨ Connector cover
- ⑩ Multi-connector
- ⑪ HDMI micro connector
- ⑫ (Playback) button

- ⑬ Arrow pad
- ⑭ (Left) button
- ⑮ button
- ⑯ **MENU** button
- ⑰ (Movie) button
- ⑱ (Up) / (Exposure compensation) button
- ⑲ (Right) / (Flash) button
- ⑳ (Down) / (Sequential shooting/Self-timer) / (Erase) button
- ㉑ **INFO** (Information display) button

Preparations for shooting

Inserting and removing the battery and card

1 Follow Steps ① and ② to open the battery/card compartment cover.

- Turn off the camera before opening the battery/card compartment cover.

Battery/card compartment lock

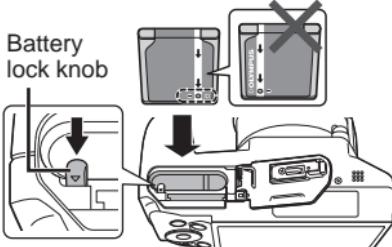


Battery/card compartment cover

2 Insert the battery while sliding the battery lock knob in the direction of the arrow.

- Insert the battery as illustrated with the  mark toward the battery lock knob.
- Slide the battery lock knob in the direction of the arrow to unlock, and then remove the battery.

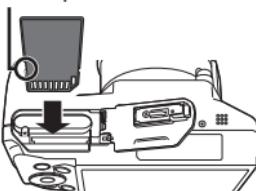
Battery lock knob



3 Insert the card straight until it clicks into place.

- Always use the specified cards with this camera. Do not insert other types of memory cards.  "Using the card" (P. 89)
- Do not touch the metallic parts of the card directly.

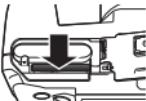
Write-protect switch



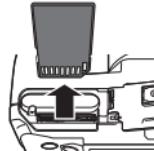
To remove the card

Press the card in until it clicks and comes out slightly, then remove the card.

1



2



4 Follow Steps ① and ② to close battery/card compartment cover.

- When using the camera, be sure to close the battery/card compartment cover.

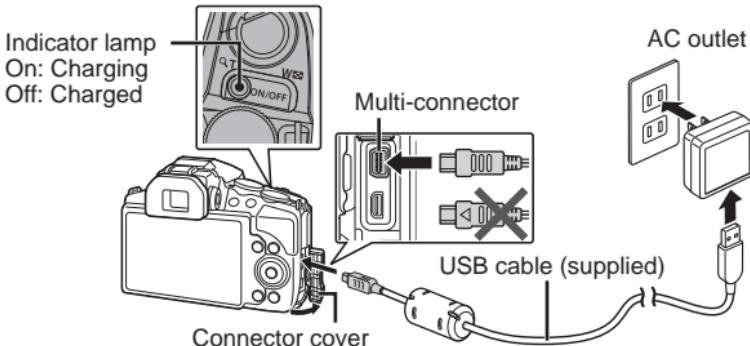


Charging the battery

1 Connect the USB cable and USB-AC adapter to the camera and charge the battery.

- The battery is not fully charged at shipment. Before use, be sure to charge the battery until the indicator lamp turns off (up to 5 hours).

Connecting the camera



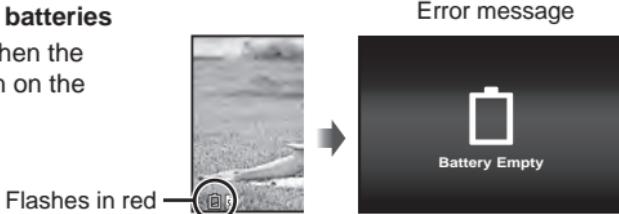
For charging the battery abroad, see "Using your charger and USB-AC adapter abroad" (P. 88).

- Never use any cable other than supplied or Olympus-designated USB cable. This may cause smoking or burning.
- The included F-2AC USB-AC adapter (hereafter referred to as USB-AC adapter) differs depending on the region where you purchased the camera. If you received a plug-in type USB-AC adapter, plug it directly into AC outlet.
- Be sure to unplug the power plug of the USB-AC adapter from the wall outlet when the charging is complete or the playback ends.
- For details on the battery, see "Battery Handling Precautions" (P. 98). For details on the USB-AC adapter, see "USB-AC adapter" (P. 99).

- If the indicator lamp does not light, check the USB cable and USB-AC adapter connections.
- If “No Connection” is displayed on the back monitor, disconnect the USB cable and set [Storage] in [USB Connection] (P. 61) before connecting the cable again.

When to charge the batteries

Charge the battery when the error message shown on the right appears.



Turning on the camera and making the initial settings

When you turn on the camera for the first time, a screen appears enabling to set the language for the menus and messages displayed in the monitor, and the date and time.

To change the selected date and time, see "Setting the date and time  []" (P. 63).

- 1 Press the **ON/OFF** button to turn on the camera, press $\triangle \nabla \triangle \nabla$ of the arrow pad to select your language and press the  button.

- 2 Press $\triangle \nabla$ of the arrow pad to select the year for [Y].



- 3 Press \triangleright of the arrow pad to save the setting for [Y].



- 4 As in Steps 2 and 3, press $\triangle \nabla \triangle \nabla$ of the arrow pad to set [M] (month), [D] (day), [Time] (hours and minutes), and [Y/M/D] (date order), and then press the  button.

- For precise time setting, press the  button as the time signal strikes 00 seconds.

- 5 Use $\triangle \nabla$ to select the time zone and then press the  button.

- Use $\triangle \nabla$ to turn daylight saving time ([Summer]) on or off.



Using basic functions

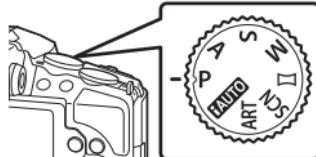
Taking photographs

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

When the camera is turned on, the monitor will turn on.

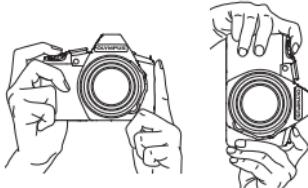
2 Set the mode dial to **P**.

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



3 Frame the shot.

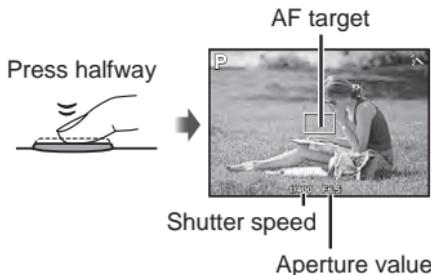
- When holding the camera, take care not to cover the flash, microphone or other important parts with your fingers, etc.
- To shoot using the viewfinder (EVF), press the **EVF** button. Every time you press the **EVF** button, the viewfinder (EVF) and the back monitor are switched alternately.
- If the display in the viewfinder (EVF) looks blurry, look through the viewfinder (EVF) and rotate the diopter adjustment dial (P. 4) until the display is in sharp focus.



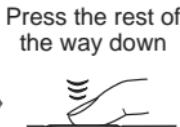
4 Press the shutter button halfway down to focus.

The camera was unable to focus if the AF target mark flashes red. Try focusing again.

- The shutter speed and aperture value are displayed in red if the camera is unable to achieve optimal exposure.



5 To take the picture, gently press the shutter button all the way down while being careful not to shake the camera.

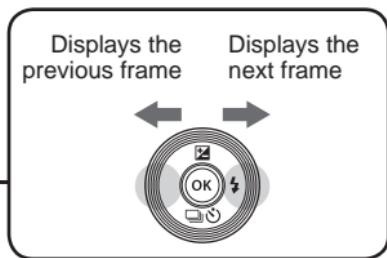
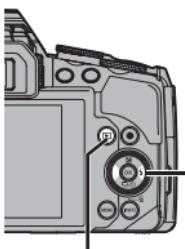


Viewing photographs (Playing back images)

Turn on the camera.

Press the **▶** button.

- Your most recent photograph is displayed.
- Press **◀▶** to select an image.



▶ button

Arrow pad



Still image

Index display

- In single-frame playback, turn the zoom lever to W for Index playback.
- Use **△▽◀▶** to move the cursor.
- Turn the zoom lever to T for single-frame playback.



Close-up playback

- In single-frame playback, turn the zoom lever to T to zoom in up to 10x; turn to W to zoom out. Press the **OK** button to return to single-frame playback.
- Press **△▽◀▶** to scroll an image to the direction of the button you pressed.



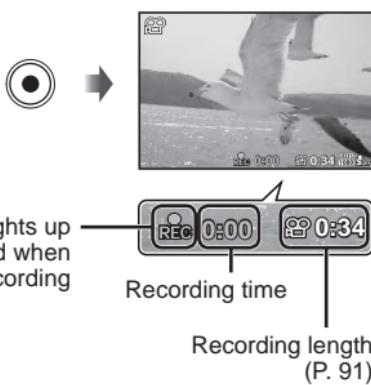
Recording movies

1 Press the  (movie) button to start recording.

- The movie is shot in the set shooting mode. Note that the shooting mode effects may not be obtained for some shooting modes.
- Sound is also recorded.
- 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.

2 Press the  (movie) button again to stop recording.



Movie playback

Select a movie, and press the  button.



Movie



During playback

Pausing and restarting playback	Press the  button to pause playback. During pause, fast forward or reverse, press the  button to restart playback.
Fast forward	Press  to fast forward. Press  again to increase the fast forward speed.
Rewind	Press  to rewind. Press  again to increase the rewind speed.
Adjusting the volume	Use   to adjust the volume.

Operations while playback is paused

Elapsed time/Total shooting time



During pause

Cueing	Use  to display the first frame and press  to display the last frame.
Advancing and rewinding one frame at a time	Press  or  to advance or rewind one frame at a time. Hold  or  pressed for continuous advance or rewind.
Resuming playback	Press the  button to resume playback.

To stop movie playback

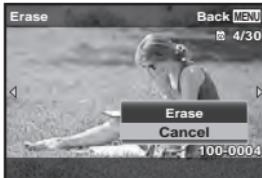
Press the **MENU** button.

- To play back movies on the computer, the supplied PC software is recommended. For the first use of the PC software, connect the camera to the computer, then launch the software.

Erasing images during playback

1 Display the image you want to erase and press ∇ (trash).

- To erase a movie, select the movie to erase and press ∇ (trash).



2 Press Δ ∇ to select [Erase], and press the OK button.

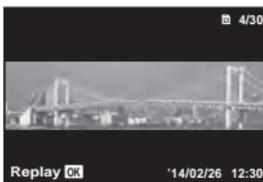
- Grouped images are erased as a group (P. 17).
- Multiple images or all images can be erased at a time (P. 58).

Playing back panorama and grouped images

Playing back panorama images

Panorama images that were combined together using [Auto] or [Manual] can be scrolled for viewing.

- 1 Select a panorama image during playback.
- 2 Press the  button.



To control panorama image playback

Stop playback: Press the **MENU** button.

Pause: Press the  button.

Control while paused

Press $\Delta \nabla \blacktriangleleft \blacktriangleright$ to scroll the image in the direction of the pressed button.

Turn the zoom lever to enlarge/shrink the image.

Press the  button to restart scrolling.

Playing back grouped images

With sequential shooting and interval shooting, the taken images are displayed as a group during playback.

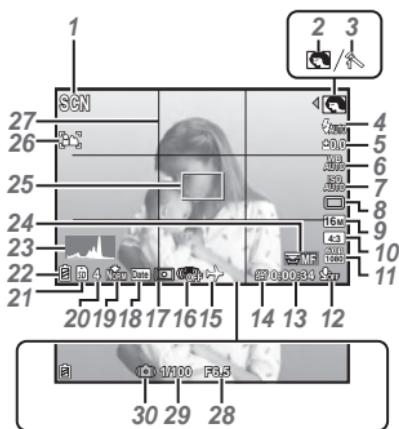
 	<p>Expands.</p> <ul style="list-style-type: none">Expand to view the frames of a group in index view.If you want to delete images from the grouped images, you can expand the group and delete the images individually.Select the image and press the  button to display the images respectively.Use $\blacktriangleleft \blacktriangleright$ to view the previous/next frame.
	Plays back the grouped images in sequence automatically or pauses playback.



Sequential images frame

Monitor display

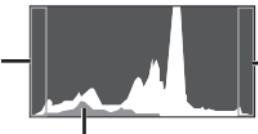
Shooting screen displays



When the shutter button is pressed halfway down

Reading a histogram

If the peak fills too much of the frame, the image will appear mostly black.



If the peak fills too much of the frame, the image will appear mostly white.

The green section shows luminance distribution within the screen's center.

Switching the displays

The displays change in the order of Normal → Detailed → No info. each time the **INFO** button is pressed.

No.	Name	Normal	Detailed	No info.
1	Shooting mode	✓	✓	–
2	Sub mode	✓	✓	–
3	Picture Mode	✓	✓	–
4	Flash	✓	✓	–
5	Exposure compensation	✓	✓	–
6	White balance	✓	✓	–
7	ISO sensitivity	✓	✓	–
8	□/⌚	✓	✓	✓
9	Image size (still images)	✓	✓	–
10	Aspect	✓	✓	–
11	Image size (movies)	✓	✓	–
12	Recording with sound/ wind noise reduction	✓	✓	–
13	Movie recording length	✓	✓	–
14	Movie recording icon	✓	✓	–
15	World time	–	✓	–
16	Image stabilization	–	✓	–
17	Metering	–	✓	–
18	Date stamp	✓	✓	–
19	Compression	✓	✓	–
20	Number of storable still pictures	✓	✓	–
21	Current memory	✓	✓	–
22	Battery check	✓	✓	–
23	Histogram	–	✓	–
24	MF	✓	✓	–
25	AF target mark	✓	✓	✓
26	Focus limit	✓	✓	–
27	Grid Guide	–	✓	–
28	Aperture value	✓	✓	✓
29	Shutter speed	✓	✓	✓
30	Camera shake warning	✓	✓	✓

Playback mode display

- Normal

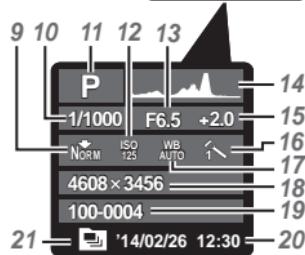


Still image

- Detailed



- No information



Switching the displays

The displays change in the order of Normal → Detailed → No info. each time the **INFO** button is pressed.

No.	Name	Normal	Detailed	No info.
1	Battery check	–	✓	–
2	Eye-Fi transfer data	✓	✓	–
3	Protect	✓	✓	–
4	Adding sound	✓	✓	–
5	Upload order	✓	✓	–
6	Print reservation/number of prints	✓	✓	–
7	Current memory	✓	✓	–
8	Frame number/ total number of images	✓	✓	–
9	Compression/Image size (movies)	–	✓	–
10	Shutter speed	–	✓	–
11	Shooting mode	–	✓	–
12	ISO sensitivity	–	✓	–
13	Aperture value	–	✓	–
14	Histogram	–	✓	–
15	Exposure compensation	–	✓	–
16	Picture mode/sub mode	–	✓	–
17	White balance	–	✓	–
18	Image size (still images)	–	✓	–
19	File name	–	✓	–
20	Recording date and time	✓	✓	–
21	Grouped images	✓	✓	✓

Shooting using basic functions

Using the shooting modes

Selecting shooting mode

Turn the mode dial to set the shooting mode to the indicator.

- After selecting **ART**, **SCN**, or **W**, select the sub mode.



List of shooting mode

- The default settings of the function are highlighted in .

Shooting mode	Sub mode	
P (Program mode)	–	P. 12
iAUTO (iAUTO mode)	–	P. 23
ART (Art Filter)	Pop Art/Soft Focus/Pale&Light Color/ Grainy Film/Pin Hole/Diorama/Dramatic Tone	P. 23
SCN (Scene Mode)	Portrait/e-Portrait/Landscape/ Interval Shooting/Hand-Held Starlight/ Night Scene/Night+Portrait/ Sport/Indoor/Self Portrait/ Sunset/Fireworks/Cuisine/ Documents/Beach & Snow/ Super Macro/Backlight HDR	P. 24
W (Panorama)	Auto STD/Auto FULL/Manual	P. 26
M (Manual mode)	–	P. 28
S (Shutter-priority mode)	–	P. 28
A (Aperture-priority mode)	–	P. 29

- “List of settings available in each shooting mode” (P. 92), “List of **SCN** settings” (P. 93), “List of **ART** settings” (P. 94)
- In certain shooting modes, the camera may take a few moments for image processing after taking a picture.

iAUTO (iAUTO mode)

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.

- 1 Rotate the mode dial to **iAUTO**.
- 2 Press the shutter button halfway down to focus.
The camera was unable to focus if the AF target mark flashes red. Try focusing again.
- 3 To take the picture, gently press the shutter button all the way down while being careful not to shake the camera.

ART (art filters)

You can shoot with color and effect like posters and paintings.

Sub mode	Application
Pop Art	Enhances the color and atmosphere of an image more brightly and vividly.
Soft Focus	Expresses an ethereal atmosphere with a soft tone and makes an image dreamy.
Pale&Light Color	Expresses a comfortable floating feeling by making an image more pale and light.
Grainy Film	Expresses the strength and roughness of black and white.
Pin Hole	Expresses the tunnel effect like that obtained from an old fashioned camera or a toy camera by reducing the peripheral brightness.
Diorama	Expresses an image shooting a surreal miniature world with enhancing the saturation and contrast and blurring an out-of-focus area of an image.
Dramatic Tone	Enhances the local contrast of an image and provide an image that a difference of brightness and darkness is emphasized.

- 1 Rotate the mode dial to **ART**.
- 2 Use **◀▶** to select a sub mode and press the **OK** button at the end.
 - Press the **OK** button once again to display the sub mode selection screen.



SCN (scene mode)

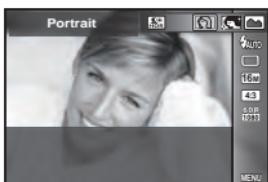
Only by selecting a sub mode according to the subject or the scene, you can shoot with an proper setting.

Sub mode	Application
Portrait	Suitable for portrait shooting.
e-Portrait	Smoothes out skin tones and texture. This mode is suitable when viewing images on a high-definition TV.
Landscape	Suitable for landscape shooting.
Interval Shooting	Automatically shoot successive images according to set [Start Waiting Time], [Frame], and [Interval Time].
Hand-Held Starlight	Reduces blur when shooting low light/ illuminated scenes. The flash can be used.
Night Scene	Suitable for tripod shooting of night scenes.
Night+Portrait	Suitable for portrait shooting against a background of night view.
Sport	Suitable for fast action shooting.
Indoor	Suitable for shooting portraits indoors like party scene.
Self Portrait	Suitable for shooting yourself with holding the camera.
Sunset	Suitable for shooting the sunset.
Fireworks	Suitable for shooting fireworks at night.
Cuisine	Suitable for shooting cuisine.
Documents	Suitable for shooting paper documents or time tables.
Beach & Snow	Suitable for shooting at snow-capped mountains, seascapes in the sun, and other whitish scenes.
Super Macro	Suitable for shooting extremely close-up images.
Backlight HDR	Suitable for contrasting scenes. This mode captures multiple images and merges them into one, properly exposed image.

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

2 Use **◀▶** to select a sub mode and press the **OK** button at the end.

- Press the **OK** button once again to display the sub mode selection screen.
- In [e-Portrait] mode, two images are recorded: an unmodified image and a second image to which [e-Portrait] effects have been applied.



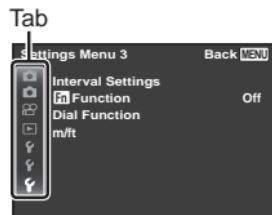
Interval Shooting

Adjusts interval settings in the setting menu before selecting Interval Shooting in **SCN** (Scene Mode) to shoot.

Customizing the setting

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

2 Use $\triangle \nabla$ to move to the page tab, and use $\Delta \nabla$ to select Setting menu 3 and then press **OK**.



3 Use $\Delta \nabla$ to select [Interval Settings] and press **OK**. Then use $\Delta \nabla$ to select an item and press **OK**.



4 Use $\Delta \nabla$ to highlight an option and press **OK** to select.

Frame	Sets the number of frames to be shot between 1 and 99 frames.
Start Waiting Time	Sets the time from pressing the shutter button until the picture is taken between 0 and 60 minutes.
Interval Time	Sets the shooting interval for the second and subsequent frames per 10 seconds or between 1 and 60 minutes.

- Press the **MENU** button repeatedly to exit the menu.
- The interval may be longer than the set interval such as when the camera takes a few moments for image processing.
- Taken pictures are displayed as a group.
- For the free space on a card, you cannot shoot the set number of frames.
- The camera may go into sleep mode during interval shooting, but the shooting is performed according to the setting.

To cancel the interval shooting

Press the **MENU** button.

〔Panorama mode〕

You can shoot and combine multiple images to create an image with a wide angle of view (panoramic image).

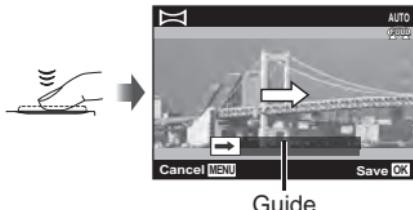
- 1 Rotate the mode dial to 〔Panorama mode〕.
- 2 Press the **OK** button to go to the function menu. Use **◀▶** to select a sub mode and press the **OK** button at the end.

Submenu	Application
Auto STD : 180°	Panorama images are automatically combined just by swinging the camera in the shooting direction.
Auto FULL : 360°	Three frames are taken and combined by the camera. The user composes the shots using the guide frame and manually releases the shutter.

- Move the camera as if rotating it around a vertical axis through the center of the lens to take better panorama images.

Taking pictures with [Auto]

- ① Press the shutter button to begin shooting.
- ② Start panning. When the arrow reaches the end of the guide, recording ends automatically.
 - The camera automatically processes the images and the combined panorama image is displayed.
 - To stop shooting in the middle, press the shutter button or **OK** button. If the camera pauses for a while, shooting automatically finishes.
 - If the message [Image was not created.] is displayed, shoot again.
 - To cancel the panorama function, press the **MENU** button.



Taking pictures with [Manual]

- ① Use $\Delta \nabla \triangleleft \triangleright$ to specify at which edge the next picture is to be connected, and then press the \textcircled{OK} button.
- ② Press the shutter button to take the first frame.

Direction for combining frames

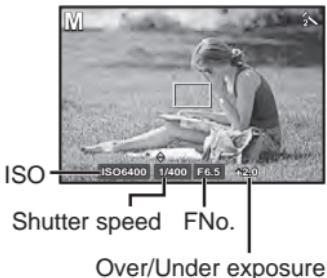


- ③ Compose the next shot so that the edge of the first frame displayed faintly on the screen overlaps the subject of the second frame, and press the shutter button.
 - To combine only two frames, press the \textcircled{OK} button.
- ④ Repeat step ③ to take a third frame. The camera automatically combines the frames into a single panorama image.

M (manual mode)

In mode **M**, you can set the aperture value, shutter speed, and ISO manually.

- The exposure difference from suitable exposure is displayed.



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

2 Press Δ , and use $\triangleleft\triangleright$ to select aperture value (F-numbers), shutter speed, and ISO and use $\Delta\triangledown$ to select each value.

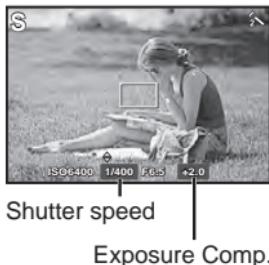
3 Press the \textcircled{OK} button to set.

S (shutter-priority mode)

In mode **S**, you choose the shutter speed and let the camera automatically adjust the optimal exposure to shoot.

You can shoot a fast action scene without any blur, and shoot with impression of dynamic motion.

- The shutter speed and aperture value are displayed in red if the camera is unable to achieve optimal exposure.



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

2 Press Δ and use $\Delta\triangledown$ to select shutter speed. Press \triangleright and use $\Delta\triangledown$ to select exposure compensation value.

3 Press the \textcircled{OK} button to set.

A (aperture-priority mode)

In mode **A**, you choose the aperture value and let the camera automatically adjust the optimal exposure to shoot.

You can express the depth of field, and blur the background intentionally.

- The shutter speed and aperture value are displayed in red if the camera is unable to achieve optimal exposure.



- 1 Rotate the mode dial to **A**.
- 2 Press Δ and use $\Delta \nabla$ to select aperture value (F-numbers).
Press \triangleright and use $\Delta \nabla$ to select exposure compensation value.
- 3 Press the OK button to set.

Using the zoom

Turning the zoom lever adjusts the shooting range.

Turn the zoom lever as far as it will go to speed up the zoom operation, and turn it partway for a slow zoom operation.

- You can also use the side zoom lever for adjustment.

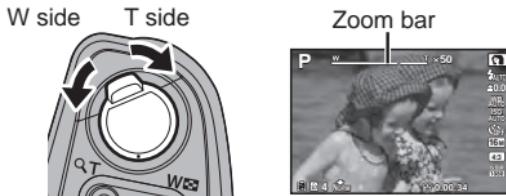


Image size	Zoom bar
16M	 W Optical zoom T Super-resolution zoom*1
Other	 W T *2

*1 For the super resolution zoom and the details, refer to (P. 51).

*2 Due to increased processing of the pixel counts, the image quality will not degrade. The magnification ratio changes depending on the image size setting.

Using shooting options (Set by direct button)

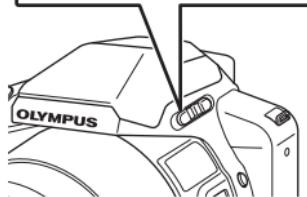
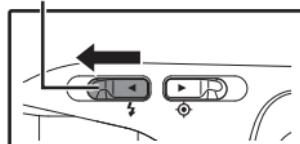
Some items are not available in some shooting modes.  "List of settings available in each shooting mode" (P. 92)

Flash

You can use a flash when shooting.

- 1 Slide the flash switch to raise the flash.
- 2 Press the  button (▷) to display options.
- 3 Use  to choose a flash mode and press .

Flash switch



 AUTO Auto flash	The flash fires automatically in low light or backlight conditions.
 Red-eye reduction flash	This function allows you to reduce the red-eye phenomenon.
 Fill-in flash	The flash fires regardless of the light conditions.
 Flash off	The flash does not fire.

- In [- [-  **AUTO**,  can be set in **F****AUTO** mode.

To turn off the flash

Press the flash down back into the camera.

Exposure compensation (P/ART/[]/[])

Compensates the brightness (appropriate exposure) adjusted by the camera.

1 Press the +/- button (Δ), and then press $\triangleleft\triangleright$ for the exposure compensation.

- Choose positive ("+" values to make pictures brighter, negative ("−") values to make pictures darker.



- You can also perform exposure compensation in mode **S** and **A**. For the operation method, refer to (P. 28).

Single/Sequential

- 1 Press the  button (▽) to display the direct menu.
- 2 Select an option using  and press .

 Single-frame shooting	Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode).
 Sequential 1 ^{*1}	The images are taken sequentially for 200 frames at up to about 2.5 frames per second (fps) while pressing down the shutter button all the way down.
 Sequential 2 ^{*1}	The images are taken sequentially for up to 6 frames at about 7 frames per second (fps) while pressing down the shutter button all the way down.
 High-Speed1 ^{*1, 2}	The images are taken sequentially for up to 60 frames at about 20 frames per second (fps) while pressing down the shutter button all the way down.
 High-Speed2 ^{*1, 2}	The images are taken sequentially for up to 60 frames at up to 60 frames per second (fps) while pressing down the shutter button all the way down.

^{*1} Taken pictures are displayed as a group.

^{*2} The number of recording pixels are limited.

- During sequential shooting, focus, exposure, and white balance are locked at the first frame.
- 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.

Self timer

Sets the time after the shutter button is pressed until the picture is taken.

- 1 Press the  button (▽) to display the direct menu.
- 2 Select [12], [2] or [C] using  and  button.

 12	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.
 2	Self-timer 2 SEC	Press the shutter button halfway to focus, the rest of the way down to start the timer. The self-timer lamp blinks for approximately 2 seconds, and then the picture is taken.
 C	Custom Self-timer	After selecting this mode, press the MENU button to set “the number of frames, the time from pressing the shutter button until the picture is taken, and the interval time”. Pictures are taken by these setting.

- To cancel the activated self-timer, press the **MENU** button.
- Self timer is not canceled automatically after shooting.

AFL (Focus lock)

You can lock the focus position.

- 1 Press the AFL/FOCUS LIMIT button.
 - The camera focuses and locks the position.
 - You can also lock the position when pressing the AFL/FOCUS LIMIT button after pressing the shutter button halfway to focus.
 - After shooting, the focus lock is released.
 - While locking the focus position, turn the control dial to switch to MF (manual focus).
 - Press the AFL/FOCUS LIMIT button again to cancel.

MF

You can focus manually on any subject.

Before using this function, set [MF] in [Fn function] (P. 60) of Settings Menu 3.

1 Press the Fn button.

2 Use the control dial to focus.

- While adjusting focus, the image is magnified. Press Δ ∇ \blacktriangleleft \blacktriangleright in this state to move around the magnified area.
- Press the **INFO** button to focus adjustment using Δ ∇ .
- Press the Fn button again to switch to AF mode.

Focus Limit

You can limit the focus range so as to focus the object easier.

1 Press and hold the AFL/FOCUS LIMIT button to display the direct menu.

2 Use \blacktriangleleft \blacktriangleright to select setting and press the OK button.

- You can set using the control dial.

 Focus Limit Off	Focuses to all range.
 Distant Area AF	Focuses to far view side.
 Close Area AF	Focuses to close-up view side.

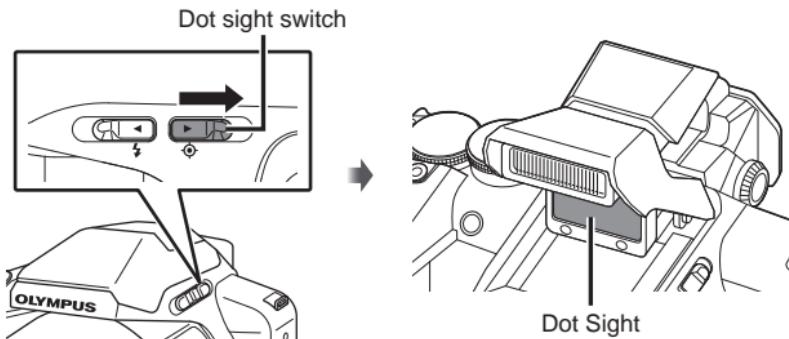
- When you change the shooting mode, or turn off or reset the camera, the focus limit is automatically canceled.

Dot Sight

You can use this unit when shooting objects at telephoto side to assist framing.

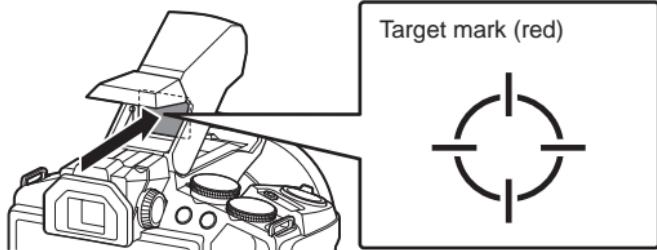
When shooting with high magnification, you can easily find and set the object in the frame.

1 Slide the dot sight switch to raise the dot sight.



2 Looking through the dot sight from the back, align the target mark with the object.

- If looking through at an angle, the target mark may be difficult to see.



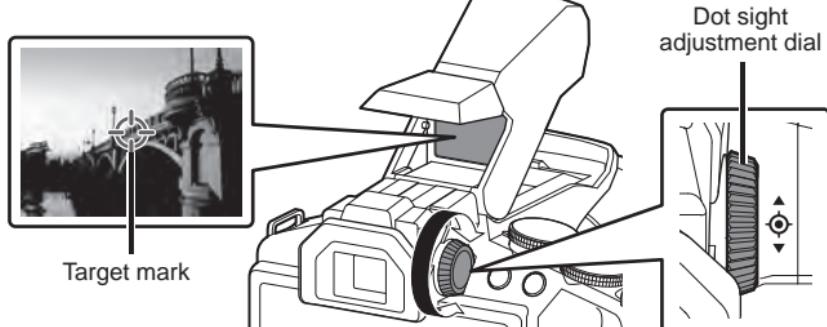
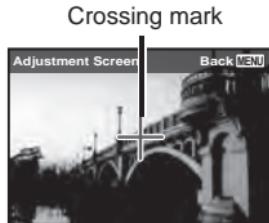
3 Confirm composition through the back monitor or viewfinder (EVF) and shoot.

- Use the dot unit as a guide for framing.
- The dot sight does not light up when shooting is not available (e.g. when playing back images).
- The camera was unable to focus if the target mark blinks.

Adjusting the target

The default setting of the dot sight is based on infinity. You can adjust the dot sight depending on the situation and your taste.

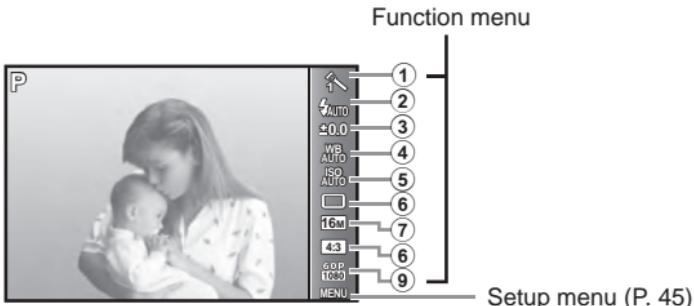
- 1 Press the **MENU** button to display the setup menu.
- 2 Select [Dot Sight Setting] in Settings Menu 2 and press the **OK** button.
- 3 Select [Adjustment Screen] and press the **OK** button.
- 4 Align the crossing mark around the center of the back monitor with the object, and fix the position of the camera.
- 5 Turn the dot sight adjustment dial to align the target mark with the object.



- Press the **OK** button to lock the focus position.

Using shooting options (Set by function menu)

Some items are not available in some shooting modes.  "List of settings available in each shooting mode" (P. 92)



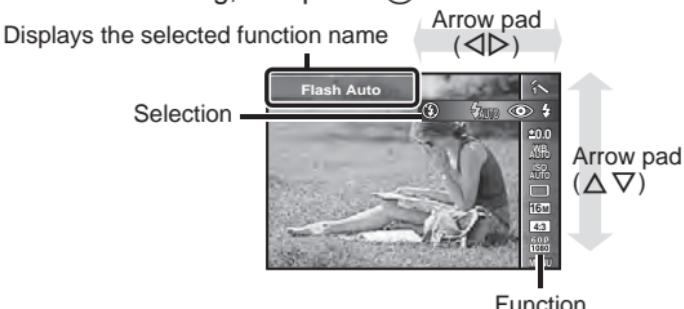
Function menu

① Picture Mode.....	P. 39	⑥ 	P. 41
② Flash.....	P. 39	⑦ Image Size (still images).....	P. 41
③ Exposure compensation	P. 40	⑧ Aspect.....	P. 41
④ White balance	P. 40	⑨ Image size (movies).....	P. 42
⑤ ISO sensitivity	P. 40		

1 Press  to display the function menu.

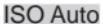
- To hide the function menu, press  again.

2 Use  on the arrow pad to select settings, use  to change the selected setting, and press .



- The default settings of the function are highlighted in .

Picture Mode		Sets the processing options.
	Vivid	Produces vivid colors.
	Natural	Produces natural colors.
	Muted	Produces flat tones.
	Fish Eye	Produces distortion with the effect of shooting with a fisheye lens.
	Sparkle	Produces twinkling lights with the effect of shooting with a cross filter.
	Reflection	Makes an image with the effect of reflecting in a mirror.
	Fragmented	Makes an image into a collage of tiles. This mode produces the effect of mosaic art.
	Pop Art	Enhances the color and atmosphere of an image more brightly and vividly.
	Soft Focus	Expresses an ethereal atmosphere with a soft tone and makes an image dreamy.
	Pale&Light Color	Expresses a comfortable floating feeling by making an image more pale and light.
	Grainy Film	Expresses the strength and roughness of black and white.
	Pin Hole	Expresses the tunnel effect like that obtained from an old fashioned camera or a toy camera by reducing the peripheral brightness.
	Diorama	Expresses an image shooting a surreal miniature world with enhancing the saturation and contrast and blurring an out-of-focus area of an image.
	Dramatic Tone	Enhances the local contrast of an image and provide an image that a difference of brightness and darkness is emphasized.
Flash		Sets the flash firing method.
	Flash Auto	The flash fires automatically in low-light or backlight conditions.
	Redeye	Pre-flashes are emitted to reduce the occurrence of red eye in your photos.
	Fill In	The flash fires regardless of the available light.
	Flash Off	The flash does not fire.

Exposure compensation		Compensates the brightness (appropriate exposure) adjusted by the camera.
-2.0 to +2.0 Value		Set a larger negative (–) value to adjust darker, or a larger positive (+) value to adjust brighter.
White balance		Sets an appropriate color scheme for the light of the shooting scene.
 WB AUTO	 WB Auto	The camera automatically adjusts the white balance.
 Sunny		Suitable for shooting outdoors under a clear sky.
 Cloudy		Suitable for shooting outdoors under a cloudy sky.
 Incandescent		Suitable for shooting under tungsten lighting.
 Fluorescent		Suitable for shooting under white fluorescent lighting.
 One Touch 1		For manually adjusting the white balance according to the light when shooting. Set a piece of white paper or other white object so that it fills the entire screen, and press the MENU button to set the white balance. For how to register one touch white balance, see "Registering one touch white balance" (P. 42).
ISO sensitivity		Sets the ISO sensitivity.
 ISO AUTO	 ISO Auto	The camera automatically sets the sensitivity with priority on image quality.
 ISO HIGH	High ISO Auto	The camera automatically sets the sensitivity with priority on minimizing blur caused by a moving subject or by camera shake.
ISO 125 to ISO 6400	Value	Set a smaller value to reduce noise in the picture, or a larger value to reduce blur.

 / 		Sets the sequential shooting function and the time from pressing the shutter button until the picture is taken.
	Single	One frame is shot each time the shutter button is pressed.
	Sequential 1	The images are taken sequentially for 200 frames at up to about 2.5 frames per second (fps) while pressing down the shutter button all the way down.
	Sequential 2	The images are taken sequentially for up to 6 frames at about 7 frames per second (fps) while pressing down the shutter button all the way down.
	High-Speed1	The images are taken sequentially for up to 60 frames at about 20 frames per second (fps) while pressing down the shutter button all the way down.
	High-Speed2	The images are taken sequentially for up to 60 frames at up to 60 frames per second (fps) while pressing down the shutter button all the way down.
	 12 sec	The self-timer lamp turns on for approx. 10 seconds, then blinks for approx. 2 seconds, and then the picture is taken.
	 2 sec	The self-timer lamp blinks for approx. 2 seconds, then the picture is taken.
	Custom Self-timer	Photographs are taken at "the number of frames, the time from pressing the shutter button until the picture is taken, and the interval time" which you set.
Image size (still images)		Sets the number of recording pixels.
	4608x3456	Suitable for printing pictures over A3 (11x17 in.).
	3200x2400	Suitable for printing pictures up to A3 (11x17 in.).
	1920x1440	Suitable for printing pictures up to A4 size (8.5x11 in.).
	640x480	Suitable for using pictures on emails.
Aspect		Sets the horizontal-to-vertical ratio of images.
	4:3	Change the horizontal-to-vertical ratio when taking pictures.
	16:9	
	3:2	
	1:1	

Image size (movies)		Sets the number of recording pixels.
 1080	60p ¹	Shoots smooth full HD movies at 60 frames per second (fps).
 1080p		Shoots full HD movies.
 720p		Shoots HD movies.
 VGA		Shoots 640x480 movies.
 HS 120fps	120 ^{1, 2}	Shoots 640x480 HS movies.
 HS 240 ^{1, 2}		Shoots 432x324 HS movies.

¹ You can set only when [Vivid], [Natural], and [Muted] is set on the picture mode in **P**, **A**, **S**, and **M** mode and [ Super Macro].

² HS movie: Film quickly moving subjects for slow-motion playback.

- In certain shooting modes, some functions cannot be set.  "List of settings available in each shooting mode" (P. 92).
- Examples of image size when the aspect ratio is 4:3.

Registering one touch white balance

Select [ One Touch 1] or [ One Touch 2], face the camera toward a piece of white paper or other white object, and press the **MENU** button.

- The camera releases the shutter and the white balance is registered. When the white balance was previously registered, the registered data is updated.
- The registered white balance data will not be cleared by turning off the power.
- Perform this procedure under the light where the pictures will be actually taken.
- When the camera settings are changed, the white balance must be registered again.
- When the white balance cannot be registered, check that the white paper fills the screen, and then perform the procedure again.

Using the setup menu functions

Setup menu

Camera Menu 1		Back MENU
1		Reset
2		Compression
3		Shadow Adjust
4		AF Mode
5		ESP/ <input checked="" type="checkbox"/>
6		Digital Zoom
7		Image Stabilizer
		Normal
		Auto
		Face/iESP
		ESP
		Off
		On

① Camera Menu 1 P. 46



- Reset
- Compression
- Shadow Adjust
- AF Mode
- ESP/
- Digital Zoom
- Image Stabilizer (Still images)

② Camera Menu 2 P. 49



- AF Illuminat.
- Rec View
- Pic Orientation
- Date Stamp
- Super-Res Zoom

③ Movie Menu P. 52



- IS Movie Mode
- (Movie sound recording)
- Wind Noise Setting

④ Playback Menu P. 53



- Slideshow
- Edit
- Erase
- Print Order (P. 74)
- (Protect)
- Upload Order
- FlashAir (P. 67)

⑤ Settings Menu 1 P. 60



- Memory Format/Format
- Backup
- Eye-Fi
- USB Connection
- Power On
- Sound Settings
- Pixel Mapping

⑥ Settings Menu 2 P. 62



- (Monitor)
- EVF Adjust
- TV Out
- (Language)
- (Date/time)
- World Time
- Dot Sight Setting

⑦ Settings Menu 3 P. 65



- Interval Settings
- Fn Function
- Dial Function
- m/ft

Using the setup menu

Press the **MENU** button during shooting or playback to display the setup menu.

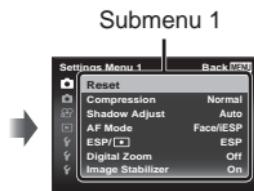
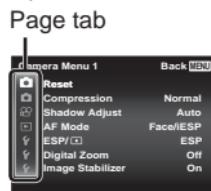
The setup menu provides access to a variety of camera settings, such as shooting and playback functions, time and date settings, and display options.

1 Press the **MENU** button.

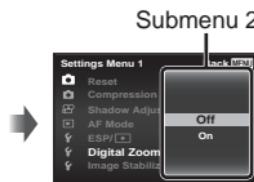
- The setup menu is displayed.



2 Press \triangle ∇ to select the page tabs. Use \triangle ∇ to select the desired page tab and press \triangleright .



3 Use \triangle ∇ to select the desired submenu 1 and then press the **OK** button.



4 Use \triangle ∇ to select the desired submenu 2 and then press the **OK** button.

- Once a setting is selected, the display returns to the Submenu 1.
- There may be additional operations.

5 Press the **MENU** button to complete the setting.



For the operation method, refer to (P. 45).

- The default settings of the function are highlighted in .

Camera Menu 1

Restoring the shooting functions to the default settings

[Reset]

Submenu 2	Application
Yes	<p>Restores the following menu functions to the default settings.</p> <ul style="list-style-type: none">• Sub mode of ART, SCN, and • Set value of M, S, and A mode• Focus Limit• Picture Mode• Flash• Exposure compensation• White balance• ISO sensitivity• • Image Size (still images)• Aspect• Image Size (movies)• Camera Menu 1, Camera Menu 2 and Movie Menu Functions
No	The settings will not be changed.

Selecting the image quality for still images **[Compression]**

Submenu 2	Application
Fine	Shooting at high quality.
Normal	Shooting at normal quality.

- “Number of storable pictures (still images)/Recording length (movies) in the internal memory and cards” (P. 91)

For the operation method, refer to (P. 45).

Brightening the subject against backlight [Shadow Adjust]

Submenu 2	Application
Auto	Automatically On when a compatible shooting mode is selected.
Off	The effect is not applied.
On	Shoot with automatic adjustment to brighten an area that has become darker.

- When [ESP/] is set to [], [Shadow Adjust] is automatically fixed to [Off].

Selecting the focusing area [AF Mode]

Submenu 2	Application
Face/iESP	The camera focuses automatically. (If a face is detected, it is shown by a white frame ¹ ; when the shutter button is pressed halfway and the camera focuses, the frame turns to green ² . If no face is detected, the camera chooses a subject in the frame and focuses automatically.)
Spot	The camera focuses on the subject located within the AF target mark.
AF Tracking	The camera tracks the subject movement automatically to focus on it continuously.

¹ For some subjects, the frame may not appear or may take some time to appear.

² If the frame blinks in red, the camera cannot focus. Try refocusing on the subject.

To focus on a moving subject continuously (AF Tracking)

- ① Hold the camera to align the AF target mark on the subject and press the  button.
- ② When the camera recognizes the subject, the AF target mark automatically tracks the subject movement to focus on it continuously.
- ③ To cancel the tracking, press the  button.

- Depending on the subjects or the shooting conditions, the camera may be unable to lock the focus or fail to track the subject movement.
- When the camera fails to track the subject movement, the AF target mark changes to red.

For the operation method, refer to (P. 45).

Selecting the method for measuring the brightness

[ESP/[•]]

Submenu 2	Application
ESP	Shoots to obtain a balanced brightness over the entire screen (Meters the brightness at the center and surrounding areas of the screen separately).
[•] (spot)	Shoots the subject at the center during backlighting (Meters the brightness at the center of the screen).

- When set to [ESP], the center may appear dark when shooting against strong backlighting.

Shooting at higher magnifications than optical zoom

[Digital Zoom]

Submenu 2	Application
Off	Disable digital zoom.
On	Enable digital zoom.

- The option selected for [Digital Zoom] affects the appearance of the zoom bar (P. 51).

Reducing the blur caused by the camera shake when shooting

[Image Stabilizer]

Submenu 2	Application
Off	The image stabilizer is deactivated. This is recommended for shooting when the camera is fixed in place on a tripod or other stable surface.
On	The image stabilizer is activated.
While Exposing	Image stabilization is activated when the shutter button is pressed all the way down.

- There may be a noise coming from inside the camera when reducing camera shake.
- Images may not be stabilized if camera shake is too severe.
- When the shutter speed is extremely slow, such as when taking pictures at night, [Image Stabilizer] may not be as effective.

For the operation method, refer to (P. 45).

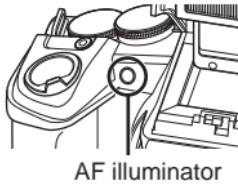
■ Camera Menu 2

Using the assist lamp for shooting a dark subject

■ [AF Illuminat.]

Submenu 2	Application
Off	The AF illuminator is not used.
On	When the shutter button is pressed halfway down, the AF illuminator turns on to aid focusing.

- When using the dot sight, AF illuminator is fixed to [Off].



AF illuminator

Viewing the image immediately after shooting ■ [Rec View]

Submenu 2	Application
Off	The image being recorded is not displayed. This allows the user to prepare for the next shot while following the subject in the monitor after shooting.
1/2/3 (sec)	The image being recorded is displayed for selected second(s). This allows the user to make a brief check of the image that was just taken.

For the operation method, refer to (P. 45).

Automatically rotating images shot with the camera in a vertical position during playback **[Pic Orientation]**

- During shooting, the  (P. 56) setting on the playback menu is set automatically.
- This function may not work properly if the camera is facing up or down during shooting.

Submenu 2	Application
Off	Information about the vertical/horizontal orientation of the camera during shooting is not recorded with images. Images shot with the camera in a vertical position are not rotated during playback.
On	Information about the vertical/horizontal orientation of the camera during shooting is recorded with images. Images are automatically rotated during playback.

Imprinting the date of recording **[Date Stamp]**

Submenu 2	Application
Off	Do not imprint the date.
On	Stamp new photographs with the date of recording.

- When the date and time are not set, [Date Stamp] cannot be set.
  (P. 63)
- The date stamp can not be deleted.
- You cannot set [Date Stamp] when drive settings are , , , and , and the picture mode is except [Vivid], [Natural], and [Muted].

For the operation method, refer to (P. 45).

Shooting larger pictures than when using optical zoom with low degrading of image quality [Super-Res Zoom]

Submenu 2	Application
Off	Disable super-resolution zoom.
On	Enable super-resolution zoom.

- [Super-Res Zoom] is available only when [Image Size] is set to [**16M**].

Super-resolution zoom	Digital zoom	Image size	Zoom bar
On	Off	16M	 Super-resolution zoom
Off	On	16M	 Digital zoom
		Other	 *1 Super-resolution zoom
On	On	16M	 Digital zoom

*1 Due to increased processing of the pixel counts, the image quality will not degrade. The magnification ratio changes depending on the image size setting.

- Photographs taken with the zoom bar displayed in red may appear “grainy”.

For the operation method, refer to (P. 45).

Movie Menu

Reducing the blur caused by the camera shake when shooting

[IS Movie Mode]

Submenu 2	Application
Off	The image stabilizer is deactivated. This is recommended for shooting when the camera is fixed in place on a tripod or other stable surface.
On	The image stabilizer is activated.
On Hybrid	The image stabilizer is activated. This function compensates for large-amplitude shake, such as the slow kind which occurs if you shoot while walking.

- Images may not be stabilized if camera shake is too severe.
- In HS movie mode, [On Hybrid] cannot be used.

Recording sound when shooting movies 

Submenu 2	Application
Off	No sound is recorded.
On	Sound is recorded.

- Sound is not recorded when an HS movie mode is selected.

Reduce wind noise in the recorded sound when recording movie 

[Wind Noise Setting]

Submenu 2	Application
Off	Disable Wind Noise Reduction.
On	Uses Wind Noise Reduction.

For the operation method, refer to (P. 45).

▶ Playback Menu

Playing back pictures automatically ▶ [Slideshow]

Submenu 2	Submenu 3	Application
BGM	Off/ Cosmic/ Breeze/ Mellow/ Dreamy/ Urban	Selects the background music options.
Start	—	Starts the slideshow.

- During a slideshow, press ▶ to advance one frame, ◀ to go back one frame.
- Press the **MENU** button or the  button to stop the slideshow.

Editing still images ▶ [Edit]

Submenu 1	Submenu 2	
Edit (still images)		P. 54
		P. 54
		P. 55
	Shadow Adj	P. 55
	Redeye Fix	P. 55
		P. 56
	e-Portrait	P. 56
Edit (movies)	In-Movie Image Capture	P. 56
	Movie Trimming	P. 57

For the operation method, refer to (P. 45).

Changing the image size

This saves a high-resolution image as a separate image with a smaller size for use in e-mail attachments and other applications.

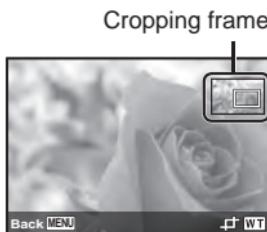
Submenu 1	Submenu 2	Submenu 3
Edit		3M VGA

- ① Use  to select an image.
- ② Use  to select an image size and press the  button.
 - The resized image is saved as a separate image.

Cropping image

Submenu 1	Submenu 2
Edit	

- ① Use  to select an image, and press the  button.
- ② Use the zoom lever to select the size of the cropping frame, and use   to move the frame.
- ③ Press the  button after you have selected the area to trim.
 - The edited image is saved as a separate image.

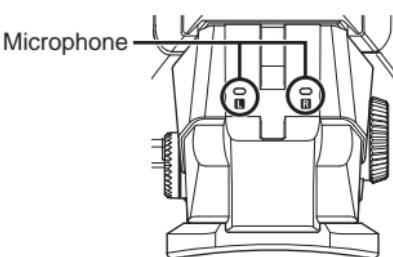


For the operation method, refer to (P. 45).

Adding sound to still images ▶ [🔊]

Submenu 1	Submenu 2
Edit	Microphone

- ① Use **◀▶** to select an image.
- ② Aim the microphone toward the sound source.
- ③ Press the **OK** button.
 - Recording starts.
 - The camera adds (records) sound for approx. 4 seconds while playing back the image.



To play sound recordings

To play sound recorded with an image, select the image and press the **OK** button.

- Press **△▽** to adjust volume.

Brightening areas that are dark due to backlight or other reasons ▶ [Shadow Adj]

Submenu 1	Submenu 2
Edit	Shadow Adj

- ① Use **◀▶** to select an image, and press the **OK** button.
 - The edited image is saved as a separate image.
 - Depending on the picture, the editing may not be effective.
 - The retouching process may lower the image resolution.

Retouching red eyes in flash shooting ▶ [Redeye Fix]

Submenu 1	Submenu 2
Edit	Redeye Fix

- ① Use **◀▶** to select an image, and press the **OK** button.
 - The edited image is saved as a separate image.
 - Depending on the picture, the editing may not be effective.
 - The retouching process may lower the image resolution.

For the operation method, refer to (P. 45).

Rotating images []

Submenu 1	Submenu 2
Edit	

- ① Use  to select an image.
- ② Press the  button to rotate the image.
- ③ If necessary, repeat Steps ① and ② to make settings for other images, and press the **MENU** button.
 - The new picture orientations will be saved even after the power is turned off.

Smoothing skin tone [*e-Portrait*]

Submenu 1	Submenu 2
Edit	e-Portrait

- ① Use  to select an image, and press the  button.
 - Some images cannot be adjusted such as when faces are undetectable.
 - The edited image is saved as a separate image.

Capturing still images from movies

[*In-Movie Image Capture*]

Submenu 1	Submenu 2
Edit	In-Movie Image Capture

- ① Use  to select the movie and press the  button.
- ② Use  to display the frame to be captured and press the  button.
 - The selected frame is recorded as a still image.
 - Some frames cannot be captured.



Frame position

For the operation method, refer to (P. 45).

Trimming long movies [Movie Trimming]

Submenu 1	Submenu 2
Edit	Movie Trimming

- ① Use $\triangle\triangleright$ to select the movie and press the  button.
- ② Use $\Delta\triangledown$ to select saving method and press the  button.

Submenu 3	Application
New File	Records the trimmed movie as new movie file.
Overwrite	Overwrites the original movie with the trimmed movie.

- ③ Use $\Delta\triangledown\triangle\triangleright$ to display the frame to start erasing, and then press the  button.
- ④ Use $\Delta\triangledown\triangle\triangleright$ to display the frame to end erasing, and then press the  button.
- ⑤ Use $\Delta\triangledown$ to select [Erase] and press the  button.
 - To cancel trimming, select [Cancel].

- Movie trimming is processed by seconds. The movie length is automatically adjusted so that the selected start and end frames are included.

For the operation method, refer to (P. 45).

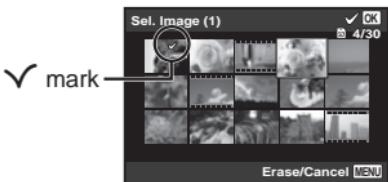
Erasing images [] [Erase]

Submenu 2	Application
All Erase	All images in the internal memory or card will be erased.
Sel. Image	Images are individually selected and erased.
Erase	Deletes the image displayed.
Erase Group	All images in the group are erased. To erase each image in the group, refer to "Playing back panorama and grouped images" (P. 17).

- When erasing pictures in the internal memory, do not insert the card into the camera.
- Protected images cannot be erased.

To individually select and erase images [] [Sel. Image]

- ① Use $\Delta \nabla$ to select [Sel. Image], and press the OK button.
- ② Use $\Delta \nabla \triangleleft \triangleright$ to select the image to be erased, and press the OK button to add a \checkmark mark to the image.
 - Turn the zoom lever to the T end to return to the single frame display.
- ③ Repeat Step ② to select the images to be erased, and then press the **MENU** button to erase the selected images.
- ④ Use $\Delta \nabla$ to select [Yes], and press the OK button.
 - The images with a \checkmark mark are erased.



To erase all images [All Erase]

- ① Use $\Delta \nabla$ to select [All Erase], and press the OK button.
- ② Use $\Delta \nabla$ to select [Yes], and press the OK button.

For the operation method, refer to (P. 45).

Protecting images [5]

- Protected images cannot be erased by [Erase] (P. 16, 58), [Sel. Image], [Erase Group], or [All Erase] (P. 58), but all images are erased by [Memory Format]/[Format] (P. 60).

① Use   to select an image.

② Press the  button.

- Press the  button again to cancel the settings.

③ If necessary, repeat Steps ① and ② to protect other images, and press the **MENU** button.

- If you protect the grouped images, all images in the group will be protected at once. To protect each image in the group, expand images.
 "Playing back panorama and grouped images" (P. 17)

Setting images to upload to Internet using OLYMPUS Viewer 3

[Upload Order]

① Use   to select an image.

② Press the  button.

- Press the  button again to cancel the settings.

③ If necessary, repeat Steps ① and ② to make settings for other images, and press the **MENU** button.

- Only JPEG files can be ordered.
- For details on OLYMPUS Viewer 3, refer to "Installing Software" (P. 78).
- For details on uploading images, refer to OLYMPUS Viewer 3 "Help".

For the operation method, refer to (P. 45).

¶ Settings Menu 1

Erasing data completely ¶ [Memory Format]/ ¶ [Format]

- Before formatting, check that no important data is left in the internal memory or card.
- Cards must be formatted with this camera before first use or after being used with other cameras or computers.
- Be sure to remove the card before formatting the internal memory.

Submenu 2	Application
Yes	Completely erases the image data in the internal memory or card (including protected images).
No	Cancels formatting.

Copying images in the internal memory to the card ¶ [Backup]

Submenu 2	Application
Yes	Backs up image data in the internal memory to the card.
No	Cancels the backup.

Using an Eye-Fi card ¶ [Eye-Fi]

Submenu 2	Application
All	Transfers all images.
Sel. Image	Transfers only selected image.
Off	Disable Eye-Fi communication.

- When using an Eye-Fi card, read the Eye-Fi card instruction manual carefully, and comply with the instructions.
- This camera does not support the Eye-Fi card's Endless mode.
- Before use, refer to "FlashAir/Eye-Fi card" (P. 89).

For the operation method, refer to (P. 45).

Selecting a method for connecting the camera to other devices **[USB Connection]**

Submenu 2	Application
Auto	Set to select the connection method each time the camera is connected to another device.
Storage	Connect camera as a card reader.
MTP	For Windows Vista/Windows 7/Windows 8/Windows 8.1, connect camera as a portable device.
Print	Select when connecting to a PictBridge-compatible printer.

- When using the supplied software, select [Storage].
- Refer to "Connecting the camera to a computer" (P. 76) for the connection method with a computer.

Turning on the camera with the button **[Power On]**

Submenu 2	Application
No	The camera is not turned on. To turn on the camera, press the ON/OFF button.
Yes	Press and hold the  button to turn the camera on in the playback mode.

Selecting the camera sound and its volume **[Sound Settings]**

Submenu 2	Submenu 3	Application
Sound Type	1/2/3	Selects the camera sounds (operation sounds, shutter sound, and warning sound).
Volume	0/1/2/3/4/5	Selects the operation volume of camera buttons.
 Volume	0/1/2/3/4/5	Selects the image playback volume.

For the operation method, refer to (P. 45).

Adjusting the image processing function [Pixel Mapping]

- This function has already been adjusted at factory shipping, and no adjustment is needed right after purchase. Approximately once a year is recommended.
- For best results, wait at least one minute after taking or viewing pictures before performing pixel mapping. If the camera is turned off during pixel mapping, be sure to perform it again.

To adjust the image processing function

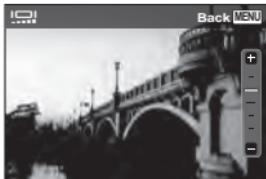
Press the  button when [Start] (Submenu 2) is displayed.

- The check and adjustment of the image processing function starts.

Settings Menu 2

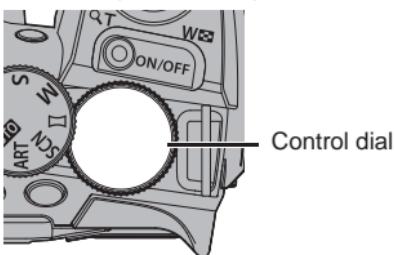
Adjusting the brightness of the monitor [...]

- ① Use the control dial to adjust the brightness while viewing the back monitor, and then press the  button.
- You can adjust the brightness using $\Delta \nabla$.



Adjusting the brightness of the viewfinder (EVF) [EVF Adjust]

- ① Use the control dial to adjust the brightness while looking through the viewfinder (EVF), and then press the  button.
- You can adjust the brightness using $\Delta \nabla$.



For the operation method, refer to (P. 45).

Playing back images on a TV ƒ [TV Out]

! The TV video signal system varies depending on the countries and regions. Before viewing camera images on your TV, select the video output according to your TV's video signal type.

Submenu 2	Submenu 3	Application
NTSC/PAL	NTSC	Connecting the camera to a TV in North America, Taiwan, Korea, Japan, and so on.
	PAL	Connecting the camera to a TV in European countries, China, and so on.
HDMI Out	480p/576p 720p 1080i 1080p	Set the signal format to be given priority. If the TV setting does not match, it is changed automatically.
HDMI Control	Off	Operate with the camera.
	On	Operate with the TV remote control.

- For the connection method, refer to "Viewing camera images on TV" (P. 68).

Changing the display language ƒ [ ]

Submenu 2	Application
Languages	The language for the menus and error messages displayed on the monitor is selected.

Setting the date and time ƒ [ ]

- Press Δ ∇ of the arrow pad to select the year for [Y].
- Press \triangleright of the arrow pad to save the setting for [Y].
- As in Steps ① and ②, press Δ ∇ \triangleleft \triangleright of the arrow pad to set [M] (month), [D] (day), [Time] (hours and minutes), and [Y/M/D] (date order), and then press the OK button.

- For precise time setting, press the OK button as the time signal strikes 00 seconds.

To check the date and time

Press and hold the **INFO** button while the camera is turned off. The current time is displayed for approx. 3 seconds.

For the operation method, refer to (P. 45).

Choosing home and alternate time zones ƒ [World Time]

- You will not be able to select a time zone using [World Time] if the camera clock has not first been set using [⌚].

Submenu 2	Submenu 3	Application
Home/ Alternate	⬆	The time in the home time zone (the time zone selected for ⬆ in submenu 2).
	✈	The time in the travel destination time zone (the time zone selected for ✈ in submenu 2).
⬆ ^{*1}	—	Select the home time zone (⬆).
✈ ^{*1, 2}	—	Select the travel destination time zone (✈).

- ^{*1} In areas where daylight saving time is in effect, use Δ ∇ to turn daylight saving time ([Summer]) on.
- ^{*2} When you select a time zone, the camera automatically calculates the time difference between the selected zone and the home time zone (⬆) to display the time in the travel destination time zone (✈).

Adjusting dot sight ƒ [Dot Sight Setting]

Submenu 2	Submenu 3	Application
Brightness	Auto	Adjusts brightness of the target mark automatically in response to object brightness.
	1/2/3/4/5	Adjusts brightness of the target mark manually.
Dot Sight + 	Yes	Turns the flash to [Off] automatically when raising the dot sight.
	No	Flash operates as set on the flash mode even when raising the dot sight.
Adjustment Screen	—	Adjusts the target.  "Adjusting the target" (P. 37)

For the operation method, refer to (P. 45).

¶ Settings Menu 3

Adjusting interval settings ¶ [Interval Settings]

Submenu 2	Submenu 3
Frame	1 to 99 (frames)
Start Waiting Time	00 to 60 (minutes)
Interval Time	10/20/30/40/50 (sec.)/01 to 60 (minutes)

Choosing the function assigned to the Fn button

¶ [Fn Function]

Picture Mode	
WB	
ISO	
Image Stabilizer (Still images)	
Aspect	Assigns the functions listed on the left to the Fn button.
AF Mode	Press the Fn button to set.
ESP/ <input checked="" type="checkbox"/>	
IS Mode	
Image Stabilizer (Movies)	
Focus Limit	
one touch WB	
MF	Press the Fn button to switch between MF and AF mode.
Zoom	Zooms in the center of an image while the Fn button is pressed. Release the button to zoom out the image.
Off	No function is assigned to the button.

For the operation method, refer to (P. 45).

Choosing the function assigned to the dial ƒ [Dial Function]

You can assign the functions in the list below to use with the control dial. The following functions are available.

	P	A	S	M
Picture Mode	✓	✓	✓	✓
Exposure Comp.	✓	✓	✓	—
WB	✓	✓	✓	✓
ISO	✓	—	—	✓
Aperture value	—	✓	—	✓
Shutter speed	—	—	✓	✓

Setting the unit for MF (manual focus) ƒ [m/ft]

Submenu 2	Application
m	Displays in meter.
ft	Displays in feet.

Using FlashAir

Things you can do with FlashAir

Using the FlashAir (with Wireless LAN function) card (commercially available), you can connect the camera to a Wi-Fi enabled smartphone or PC and view or import images from the FlashAir card.

- When using a FlashAir card, read the FlashAir card instruction manual carefully, and comply with the instructions.

Setting the camera

- Insert a FlashAir card into the camera, and turns on the power.
- Select [FlashAir] in the playback menu and press the  button.
- Select setting and press the  button.

Submenu 2	Application
Start/Stop	Connect to or disconnect from Wi-Fi.
Starting option	[Manual Start] or [Auto Start] can be selected.

- The camera will not go into sleep mode while connected to Wi-Fi.
- Smartphone application is available.
<http://oishare.olympus-imaging.com/>
- Before use, refer to "FlashAir/Eye-Fi card" (P. 89).

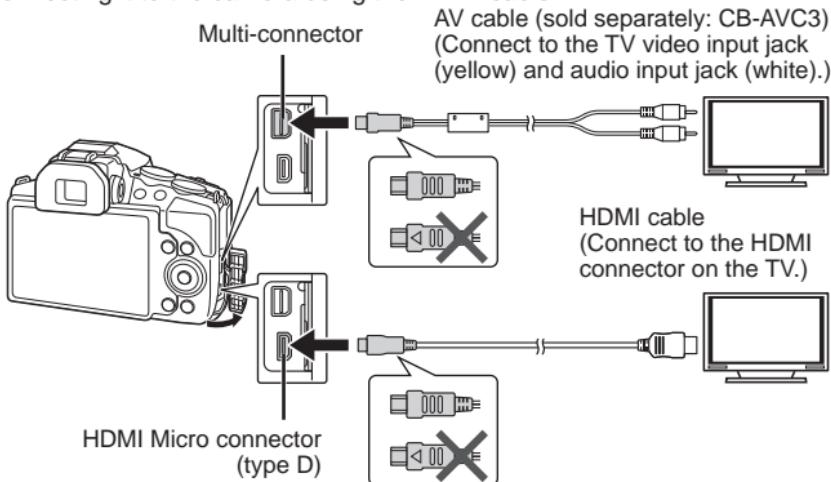
Connecting manually

- Select [Manual Start] in [Starting option] and press .
- Select [Start] and press .
- Select the camera's FlashAir as the access point using the device to be connected.
 - 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 in the card.
- 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.
- Select [Stop] and press the  button to end the connection.
 - Turning off the power also ends the connection.

Connecting the camera to another device

Viewing camera images on TV

Use the AV cable (sold separately) to playback recorded images on your TV. You can play back high-definition images on a high-definition TV by connecting it to the camera using the HDMI cable.



- 1 Use the cable to connect the camera to the TV.
 - Choose the camera video mode before connecting the camera via an AV cable.  [TV Out] (P. 63)
- 2 Choose the TV input channel.
 - The camera monitor turns off when the cable is connected.
 - Press the  button when connecting via an AV cable.
 - For details on changing the input source of the TV, refer to the TV's instruction manual.
 - Depending on the TV's settings, the displayed images and information may become cropped.

- If the camera is connected using both an A/V and HDMI cable, it will assign priority to HDMI.
- Do not connect the USB cable and HDMI cable at the same time.
- 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.

1080p	Priority is given to 1080p HDMI output.
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 [TV Out] (P. 63).

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 [TV Out] in Settings Menu 2.
- 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.
 - Some televisions may not support all features.

- 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.

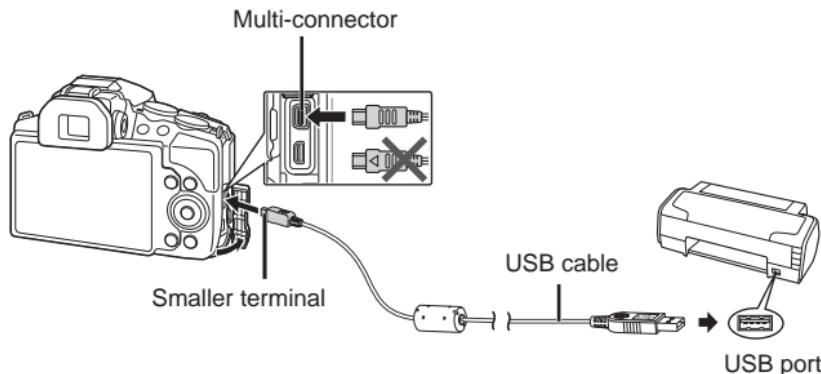
Printing Pictures

Direct printing (PictBridge)

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

Before connecting, select [Print] for [USB Connection] (P. 61) in the setting menu.

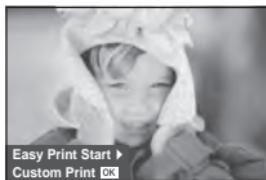
Connecting the camera



- Use a fully charged battery for printing.
- Movies cannot be printed.

■ Easy printing

- 1 Use $\triangleleft\triangleright$ to display the pictures you want to print on the camera.
- 2 Connect the camera to the printer using the supplied USB cable.
 - If the easy print start screen is not displayed, select [Print] for [USB Connection] (P. 61) in the setting menu before connecting the printer again.



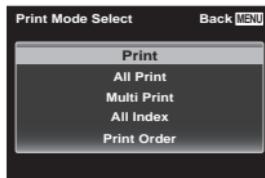
3 Press ▶.

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

■ Custom printing

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

- When the camera is turned on, a dialog should be displayed in the monitor prompting you to choose a host. If it is not, select [Print] for [USB Connection] (P. 61) in the setting menu.



2 Follow the operation guide to set a print option.

Selecting the print mode

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

Print	Prints selected pictures.
All Print	Prints all the pictures stored in the card and makes one print for each picture.
Multi Print	Prints multiple copies of one image in separate frames on a single sheet.
All Index	Prints an index of all the pictures stored in the card.
Print Order	Prints according to the print reservation you made (P. 74). If there is no picture with print reservation, this is not available.

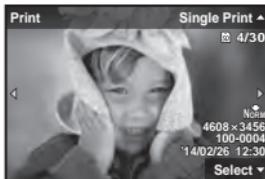
Setting the print paper items

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

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

Selecting pictures you want to print

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



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

Setting printing data

Select whether to print printing data such as the date and time or file name on the picture when printing.

	Sets the number of prints.
Date	Prints the date and time recorded on the picture.
File Name	Prints the file name recorded on the picture.
	Trims the picture for printing. Set the trimming size with the zoom lever (T/W), and set the trimming position with Δ ∇ \blacktriangleleft \blacktriangleright .

3 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**.

Print reservation (DPOF)

In print reservations, the number of prints and date imprint option are saved in the image on the card. This enables easy printing at a printer or print shop supporting DPOF by using only the print reservations on the card without a computer or a camera.

- Print reservations can be set only for the images stored on the card.
- DPOF reservations set by another DPOF device cannot be changed by this camera. Make changes using the original device. Making new DPOF reservations with this camera will erase the reservations made by the other device.
- DPOF print reservations can be made for up to 999 images per card.

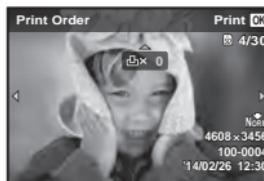
■ Single-frame print reservations []

1 Display the setup menu.

- “Using the setup menu” (P. 45)

2 From the playback menu , select [Print Order] and then press the button.

3 Use $\Delta \nabla$ to select [], and press the button.



4 Use $\triangle \nabla$ to select the image for print reservation. Use $\Delta \nabla$ to select the quantity. Press the button.

5 Use $\Delta \nabla$ to select the [] (date print) screen option, and press the button.

Submenu 2	Application
No	This prints the image only.
Date	This prints the image with the shooting date.
Time	This prints the image with the shooting time.

6 Use $\Delta \nabla$ to select [Set], and press the button.

■ Reserving one print each of all images on the card []

1 Follow Steps 1 and 2 in [] (P. 74).

2 Use $\Delta \nabla$ to select [], and press the  button.

3 Follow Steps 5 and 6 in [].

■ Resetting all print reservation data

1 Follow Steps 1 and 2 in [] (P. 74).

2 Select either [] or [], and press the  button.

3 Use $\Delta \nabla$ to select [Reset], and press the  button.

■ Resetting the print reservation data for selected images

1 Follow Steps 1 and 2 in [] (P. 74).

2 Use $\Delta \nabla$ to select [], and press the  button.

3 Use $\Delta \nabla$ to select [Keep] and press the  button.

4 Use $\blacktriangleleft \triangleright$ to select the image with the print reservation you want to cancel. Use $\Delta \nabla$ to set the print quantity to "0".

5 If necessary, repeat Step 4, and then press the  button when finished.

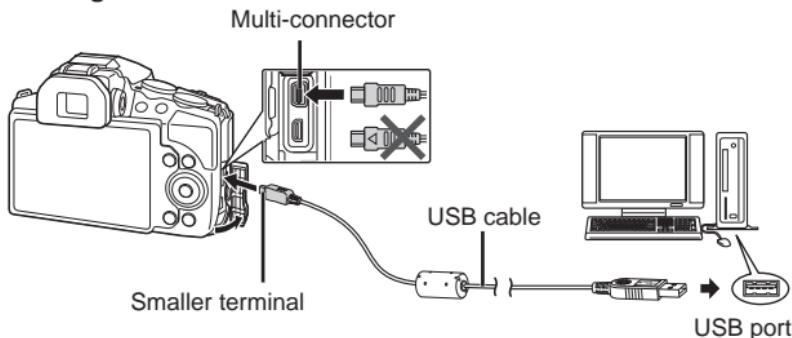
6 Use $\Delta \nabla$ to select the [] (date print) screen option, and press the  button.

- The settings are applied to the remaining images with the print reservation data.

7 Use $\Delta \nabla$ to select [Set], and press the  button.

Connecting the camera to a computer

Connecting the camera



- ! 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.
- ! If the camera cannot connect to PC, disconnect the USB cable and check the setting of [USB Connection] (P. 61) before connecting to PC again.
- The battery can be charged while the camera is connected to the computer via USB. The charging time varies depending on the performance of the computer. (There may be cases in which it takes approx. 10 hours.)

Copying pictures to a computer

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

Windows	Windows XP SP3 /Windows Vista SP2 / Windows 7 SP1 / Windows 8 / Windows 8.1
Macintosh	Mac OS X v10.5-v10.9

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 The computer recognizes the camera as a new device.

- ! If your computer is running Windows Vista / Windows 7 / Windows 8 / Windows 8.1, select [MTP] in [USB Connection] of the setting menu to use Windows Photo Gallery.
- ! Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
 - Computers with a USB port added by means of an extension card, etc.
 - Computers without a factory-installed OS and home-built computers
- ! Camera controls can not be used while the camera is connected to a computer.
- ! If the dialog is not displayed when the camera is connected, set [USB Connection] (P. 61) of the setting menu before connecting to PC again.

Installing Software

■ Windows

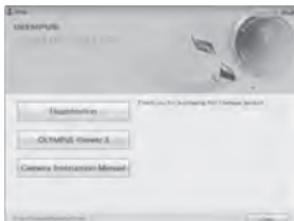
1 Insert the supplied CD in a CD-ROM drive.

Windows XP

- A "Setup" dialog will be displayed.

Windows Vista / Windows 7 / Windows 8 / Windows 8.1

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



! 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.

3 Register your Olympus product.

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

4 Install OLYMPUS Viewer 3.

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

Operating System	Windows XP SP3/Windows Vista SP2/ Windows 7 SP1/Windows 8 / Windows 8.1
Processor	Pentium 4 1.3 GHz or better (Core 2 Duo 2.13 GHz or better required for movies)
RAM	1 GB or more (2 GB or more recommended)
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 x 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 3.

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

Operating System	Mac OS X v10.5–v10.9
Processor	Intel Core Solo/Duo 1.5 GHz or better (Core 2 Duo 2 GHz or better required for movies)
RAM	1 GB or more (2 GB or more recommended)
Free Hard Drive Space	3 GB or more
Monitor Settings	1024 x 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.

Usage Tips

If the camera does not work as intended, or if an error message is displayed on the screen, and you are unsure of what to do, refer to the information below to fix the problem(s).

Troubleshooting

■ Battery

The camera does not work even when batteries are installed.

- Insert recharged batteries in the correct direction.  "Inserting and removing the battery and card" (P. 6)
- Battery performance may have been reduced temporarily due to low temperature. Take the batteries out of the camera, and warm them by putting them in your pocket for a while.

■ Card

An error message is displayed.

-  "Error message" (P. 82)

■ Shutter button

No picture is taken when the shutter button is pressed.

- Cancel sleep mode.
To save battery power, the camera automatically goes into sleep mode and the monitor turns off if there is no operation for 3 minutes when the camera is turned on. No picture is taken even if the shutter button is fully pressed in this mode. Operate the zoom lever or other buttons to restore the camera from sleep mode before taking a picture. If the camera is left for another 12 minutes, it automatically turns off. Press the **ON/OFF** button to turn the camera on.
- Press the  button to switch to the shooting mode.
- Wait until  (flash charge) stops blinking before taking pictures.
- With prolonged camera use, the internal temperature may increase, resulting in automatic shutdown. If this occurs, wait until the camera has sufficiently cooled.

The camera's external temperature may also increase during use, however this is normal and does not indicate malfunction.

■ Monitor

Difficult to see.

- Condensation may have occurred. Turn off the power, and wait for the camera body to become acclimated to the surrounding temperature and dry out before taking pictures.

The light is caught in the picture.

- Shooting with flash in dark situations results in an image with many flash reflections on dust in the air.

■ Date and time function

Date and time settings return to the default setting.

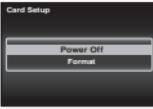
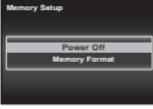
- If the batteries are removed and left out of the camera for about 3 days^{*1}, the date and time settings return to the default setting, and must be reset.

^{*1} The time until the date and time settings return to the default setting varies depending on how long the batteries have been loaded.

 "Turning on the camera and making the initial settings" (P. 10)

Error message

- When one of the messages below is displayed on the monitor, check the corrective action.

Error message	Corrective action
 Card Error	Card problem Insert a new card.
 Write Protect	Card problem The card write-protect switch is set to the "LOCK" side. Release the switch.
 Memory Full	Internal memory problem <ul style="list-style-type: none">Insert a card.Erase unwanted images.*1
 Card Full	Card problem <ul style="list-style-type: none">Replace the card.Erase unwanted images.*1
 Card Setup Power Off Format	Card problem Use $\Delta \nabla$ to select [Format], and press the  button. Next, use $\Delta \nabla$ to select [Yes], and press the  button.*2
 Memory Setup Power Off Memory Format	Internal memory problem Use $\Delta \nabla$ to select [Memory Format], and press the  button. Next, use $\Delta \nabla$ to select [Yes], and press the  button.*2
 No Picture	Internal memory/Card problem Take pictures before viewing them.
 Picture Error	Problem with selected image Use photo retouch software, etc. to view the image on a computer. If the image still cannot be viewed, the image file is corrupted.

*1 Before erasing important images, download them to a computer.

*2 All data will be erased.

Error message	Corrective action
 The Image Cannot Be Edited	Problem with selected image Use photo retouch software, etc. to edit the image on a computer.
 Battery Empty	Battery problem Charge the battery.
 No Connection	Connection problem Connect the camera and computer or printer correctly.
 No Paper	Printer problem Load paper into the printer.
 No Ink	Printer problem Refill the ink in the printer.
 Jammed	Printer problem Remove the jammed paper.
Settings Changed ³	Printer problem Return to the status where the printer can be used.
 Print Error	Printer problem Turn off the camera and printer, check the printer for any problems, and then turn the power on again.
 Cannot Print ⁴	Problem with selected image Use a computer to print.

³ This is displayed, for instance, when the printer's paper tray has been removed. Do not operate the printer while making the print settings on the camera.

⁴ This camera may be unable to print images taken by other cameras.

Shooting tips

When you are unsure of how to take a picture that you envision, refer to the information below.

■ Focusing

Focusing on the subject.

- **Taking a picture of a subject not in the center of the monitor.**  P. 34
After focusing on an object at the same distance as the subject, compose the shot, and take the picture.
- **Set [AF Mode] to [Face/iESP].**  P. 47
- **Taking a picture in [AF Tracking] mode.**  P. 47

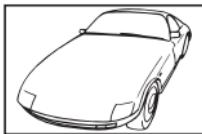
The camera tracks the subject movement automatically to focus on it continuously.

- **Taking a picture of a shadowy subject.**  P. 49

Using the AF illuminator makes focusing easier.

- **Taking a picture of subjects where autofocus is difficult.**

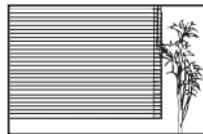
In the following cases, after focusing on an object (by pressing the shutter button halfway down) with high contrast at the same distance as the subject, compose the shot, and take the picture.



Subject with low contrast



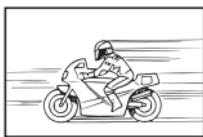
Excessively bright light in center of frame



Subject containing no vertical lines ¹



Subjects at different distances¹



Fast-moving subject



Subject not inside AF area

¹ It is also effective to compose the shot by holding the camera vertically to focus, and then returning to the horizontal position to take the picture.

■ Camera shake

Taking pictures without camera shake.

- **Taking pictures using [Image Stabilizer].**  P. 48

The camera detects camera movement to reduce the blur even if the ISO sensitivity is not increased. This function is also effective when taking pictures at a high zoom magnification.

- **Shooting movies using [IS Movie Mode].**  P. 52

- **Select [ Sport] in the scene mode.**  P. 24

The [ Sport] mode uses a fast shutter speed and can reduce the blur incurred by a moving subject.

- **Taking pictures at a high ISO sensitivity.**  P. 40

If a high ISO sensitivity is selected, pictures can be taken at a high shutter speed even at locations where a flash cannot be used.

■ Exposure (brightness)

Taking pictures with the right brightness.

- **Taking pictures of a subject against a backlight**

Faces or backgrounds are bright even when shot against backlight.

[Shadow Adjust]  P. 55

[ Backlight HDR]  P. 24

- **Taking pictures using [Face/iESP].**  P. 47

Appropriate exposure is obtained for a face against backlight, and the face is brightened.

- **Taking pictures using [Spot Metering].**  P. 48

Brightness is matched with a subject in the center of the screen and the image is not affected by background light.

- **Taking pictures using [Fill In] flash.**  P. 31

A subject against backlight is brightened.

- **Taking pictures of a white beach or snow scene.**  P. 24

Select [ Beach & Snow] in the scene mode.

- **Taking pictures using exposure compensation.**  P. 32

Adjust the brightness while viewing the screen for taking the picture.

Normally, taking pictures of white subjects (such as snow) results in images that are darker than the actual subject. Use the exposure compensation to adjust in the positive (+) direction to express whites as they appear. When taking pictures of black subjects, on the other hand, it is effective to adjust in the negative (-) direction.

■ Color hue

Taking pictures with colors at the same shade as they appear.

- **Taking pictures by selecting white balance.**  P. 40

Best results in most environments can normally be obtained with the [WB Auto] setting, but for some subjects, you should try experimenting with different settings. (This is especially true for sunshade under a clear sky, mixed natural and artificial light settings, and so on.)

■ Image quality

Taking sharper pictures.

- **Taking pictures with the optical zoom or super-resolution zoom.**

Avoid using digital zoom (P. 48) to take pictures.

- **Taking pictures at a low ISO sensitivity.**  P. 40

If the picture is taken with a high ISO sensitivity, noise (small colored spots and color unevenness that were not in the original image) can occur, and the image can appear grainy.

Playback/Editing tips

■ Playback

Playing images in the internal memory and card.

- Remove the card and display the images in internal memory.  P. 6

Viewing images with high picture quality on a highdefinition TV.

- Connect the camera to the TV using an HDMI cable.  P. 68

■ Editing

Erasing the sound recorded to a still image.

- Record over the sound with silence when playing back the image.

 P. 55

Cleaning and storing the camera

Camera care

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, Dot sight:

- Blow dust off the lens with a commercial blower, then wipe gently with a lens cleaner.
- ! Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.
- ! Mold may form on the lens surface if the lens is left dirty.

Battery/USB-AC adapter:

- Wipe gently with a soft, dry cloth.

Storage

- When storing the camera for extended periods, remove the battery, adapter and card, and keep in a cool, dry place that is well ventilated.
- Periodically insert the battery and test the camera functions.
- ! Avoid leaving the camera in places where chemical products are handled since this may result in corrosion.

Using a separately sold USB-AC adapter

The USB-AC adapter F-3AC (sold separately) can be used with this camera. Do not use any USB-AC adapter other than the dedicated one. When using F-3AC, be sure to use the USB cable included with this camera.

Do not use any other USB-AC adapter with this camera.

Using a separately sold charger

A charger (UC-90: sold separately) can be used to charge the battery.

Using your charger and USB-AC adapter abroad

- The charger and USB-AC adapter can be used in most home electrical sources within the range of 100 V to 240 V AC (50/60Hz) around the world. However, depending on the country or area you are in, the AC wall outlet may be shaped differently and the charger and USB-AC adapter may require a plug adapter to match the wall outlet. For details, ask at your local electrical shop or travel agent.
- Do not use travel voltage converters as they could damage your charger and USB-AC adapter.

Using the card

Cards compatible with this camera

SD/SDHC/SDXC/Eye-Fi/FlashAir (with Wireless LAN function)
card (commercially available)

(for compatibility card details, visit the Olympus website.)



- This camera can be used without a card by storing images in its internal memory.

FlashAir/Eye-Fi card

- "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.
- The FlashAir/Eye-Fi card may become hot during use.
- When using a FlashAir/Eye-Fi card, the battery may run out faster.
- When using a FlashAir/Eye-Fi card, the camera may function more slowly.

SD/SDHC/SDXC card write-protect switch

The SD/SDHC/SDXC 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 enable writing.



Format

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

Checking the image saving location

The memory indicator shows whether the internal memory or card is being used during shooting and playback.

Current memory indicator

 Internal memory is being used

 Card is being used

- ! Even if [Memory Format]/[Format], [Erase], [Sel. Image], [All Erase], or [Erase Group] is performed, the data in the card is not completely erased. When disposing of the card, damage the card to prevent the disclosure of personal data.
- ! Switching between a card and internal memory is not available. When using the internal memory, remove the card first.

Readout/recording process of the card

During shooting, the current memory indicator lights up in red while the camera is writing data. Never open the battery/card cover or unplug the USB cable. This can not only damage the image data but also render the internal memory or card unusable.

Number of storable pictures (still images)/Recording length (movies) in the internal memory and cards

! The figures for the number of storable still pictures and recording length are approximate. The actual capacity varies with shooting conditions and the card used.

Still pictures¹

Image Size	Compression	Number of storable pictures	
		Internal memory	SD/SDHC/SDXC card (4GB)
16M 4608x3456	FINE	4	460
	NORM	8	880
8M 3200x2400	FINE	9	900
	NORM	16	1,630
3M 1920x1440	FINE	27	2,740
	NORM	54	5,480
VGA 640x480	FINE	198	20,110
	NORM	341	30,170

¹ Examples of image size when the aspect ratio is 4:3.

Movies

Image Size	Recording length			
	Internal memory		SD/SDHC/SDXC card (4GB)	
	With sound	Without sound	With sound	Without sound
1080 1920x1080 ¹	9 sec.	9 sec.	18 min.	18 min.
1080 1920x1080 ¹	14 sec.	15 sec.	27 min.	29 min.
720 1280x720 ¹	27 sec.	30 sec.	51 min.	57 min.
VGA 640x480	1 min. 6 sec.	1 min. 28 sec.	125 min.	167 min.
HS 120fps 640x480 ²	23 sec.	23 sec.	43 min.	43 min.
HS 240fps 432x324 ²	17 sec.	17 sec.	32 min.	32 min.

¹ The recording length is up to 29 minutes in the HD quality specified.

² The recording length is up to 20 sec. in the HS quality specified.

- The maximum file size of a single movie is 4GB, regardless of the capacity of the card.

Increasing the number of pictures that can be taken

Either erase unwanted images, or connect the camera to a computer or other device to save the images, and then erase the images in the internal memory or card.

[Erase] (P. 16, 58), [Sel. Image], [All Erase], [Erase Group] (P. 58), [Memory Format]/[Format] (P. 60)

List of settings available in each shooting mode

For details on **SCN**, or **ART**, refer to "List of **SCN** settings" (P. 93), "List of **ART** settings" (P. 94).

	P	IAUTO	SCN	M	S	A
Picture Mode	✓	—	—	✓	✓	✓
Flash	✓	*1	—	*1	*1	✓
Exposure Comp.	✓	—	✓	—	✓	✓
White balance	✓	—	✓	✓	✓	✓
ISO	✓	—	—	*1	—	—
 / 	✓	*1	*1	*1	*1	*1
Image size (still images)	✓	✓	—	✓	✓	✓
Aspect	✓	✓	—	✓	✓	✓
Image size (movies)	✓	*1	*1	✓	✓	✓
Shutter speed	—	—	—	✓	✓	—
Aperture value	—	—	—	✓	—	✓
Compression	✓	✓	✓	✓	✓	✓
Shadow Adjust	✓	—	—	✓	✓	✓
AF Mode	✓	—	*1	✓	✓	✓
 / 	✓	—	✓	✓	✓	✓
Digital Zoom	✓	—	—	✓	✓	✓
Image Stabilizer	✓	✓	✓	✓	✓	✓
AF Illuminat.	✓	—	—	✓	✓	✓
Rec View	✓	✓	✓	✓	✓	✓
Pic Orientation	✓	✓	✓	✓	✓	✓
Date Stamp	✓	✓	—	✓	✓	✓
Super-Res Zoom	✓	—	—	✓	✓	✓
IS Movie Mode	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓
Wind Noise Setting	✓	✓	✓	✓	✓	✓

*1 Some functions cannot be set.

List of SCN settings

Picture Mode	—	—	—	✓	—	—	—	—	—	—	—	—	—	—	✓	—	
Flash	*1	*1	—	✓	*1	—	*1	*1	*1	*1	—	—	*1	—	*1	—	—
Exposure Comp.	—	—	—	✓	—	—	—	—	—	—	—	—	—	—	✓	—	
White balance	—	—	—	✓	—	—	—	—	—	—	—	—	—	—	✓	—	
ISO	—	—	—	✓	—	—	—	—	—	—	—	—	—	—	✓	—	
	*1	*1	*1	—	*1	*1	*1	✓	*1	*1	*1	*1	*1	*1	✓	*1	
Image size (still images)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Aspect	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Image size (movies)	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	✓	*1	
Shutter speed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Aperture value	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Compression	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Shadow Adjust	✓	✓	✓	✓	✓	—	—	✓	✓	✓	✓	—	✓	✓	✓	✓	
AF Mode	✓	—	✓	*1	—	✓	✓	✓	✓	—	✓	—	✓	✓	✓	—	
ESP/	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Digital Zoom	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	—	✓	—	✓	✓	—	
Image Stabilizer	✓	✓	✓	—	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
AF Illuminat.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Rec View	✓	✓	✓	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Pic Orientation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Date Stamp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Super-Res Zoom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
IS Movie Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Wind Noise Setting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

*1 Some functions cannot be set.

List of ART settings

	Pop Art	Soft Focus	Pale&Light Color	Grainy Film	Pin Hole	Diorama	Dramatic Tone
Picture Mode	—	—	—	—	—	—	—
Flash	✓	✓	✓	✓	✓	✓	✓
Exposure Comp.	✓	✓	✓	✓	✓	✓	✓
White balance	✓	✓	✓	—	✓	✓	✓
ISO	—	—	—	—	—	—	—
□/⌚	*1	*1	*1	*1	*1	*1	*1
Image size (still images)	✓	✓	✓	✓	✓	✓	✓
Aspect	✓	✓	✓	✓	✓	✓	✓
Image size (movies)	*1	*1	*1	*1	*1	*1	*1
Shutter speed	—	—	—	—	—	—	—
Aperture value	—	—	—	—	—	—	—
Compression	✓	✓	✓	✓	✓	✓	✓
Shadow Adjust	—	—	—	—	—	—	—
AF Mode	✓	✓	✓	✓	✓	✓	✓
ESP/⌚	✓	✓	✓	✓	✓	✓	✓
Digital Zoom	—	—	—	—	—	—	—
Image Stabilizer	✓	✓	✓	✓	✓	✓	✓
AF Illuminat.	✓	✓	✓	✓	✓	✓	✓
Rec View	✓	✓	✓	✓	✓	✓	✓
Pic Orientation	✓	✓	✓	✓	✓	✓	✓
Date Stamp	—	—	—	—	—	—	—
Super-Res Zoom	—	—	—	—	—	—	—
IS Movie Mode	✓	✓	✓	✓	✓	✓	✓
⌚	✓	✓	✓	✓	✓	—	✓
Wind Noise Setting	✓	✓	✓	✓	✓	—	✓

*1 Some functions cannot be set.

SAFETY PRECAUTIONS



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED OLYMPUS SERVICE PERSONNEL.



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



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



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



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

WARNING!

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

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

Lightning — If a lightning storm occurs while using a USB-AC adapter, remove it from the wall outlet immediately.

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.

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.

Handling the Camera

WARNING

- Do not use the camera near flammable or explosive gases.
- Do not use the flash and LED (including AF illuminator) on people (infants, small children, etc.) at close range.
- You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.

- 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.
- Use SD/SDHC/SDXC memory cards, Eye-Fi cards or FlashAir cards only. Never use other types of cards. If you accidentally insert another type of card into the camera, contact an authorized distributor or service center. Do not try to remove the card by force.
- If you find that the USB-AC adapter is extremely hot or notice any unusual odors, noise, or smoke around it, unplug the power plug from wall outlet immediately and stop using it. Then, contact an authorized distributor or service center.

CAUTION

- Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.
- Never remove the batteries with bare hands, which may cause a fire or burn your hands.
- Never hold or operate the camera with wet hands.
- Do not leave the camera in places where it may be subject to extremely high temperatures.
 - Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire. Do not use the charger or USB-AC adapter if it is covered (such as a blanket). This could cause overheating, resulting in fire.
- Handle the camera with care to avoid getting a low-temperature burn.
 - When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
 - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
 - In places subject to extremely cold temperatures, the temperature of the camera's body may be lower than the environmental temperature. If possible, wear gloves when handling the camera in cold temperatures.

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

Battery Handling Precautions

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

DANGER

- The camera uses a lithium ion battery specified by Olympus. Charge the battery with the specified USB-AC adapter or charger. Do not use any other USB-AC adapters or 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, solder, 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.
- If you cannot remove the battery from the camera, contact an authorized distributor or service center. Do not try to remove the battery by force. Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.
- Always store batteries out of the reach of small children and pets. If they accidentally swallow a battery, seek medical attention immediately.

WARNING

- Keep batteries dry at all times.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Insert the battery carefully as described in the operating instructions.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use a battery if it is cracked or broken.
- If a battery leaks, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.

- Never subject batteries to strong shocks or continuous vibration.

CAUTION

- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- Always unload the battery from the camera before storing the camera for a long period.
- This camera uses one Olympus lithium ion battery. Use the designated battery. There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Power consumption by the camera varies depending on which functions are used.
- During the conditions described below, power is consumed continuously and the battery becomes exhausted quickly.
 - The zoom is used repeatedly.
 - The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus.
 - A picture is displayed on the monitor for an extended period of time.
 - The camera is connected to a printer.
- Using an exhausted battery may cause the camera to turn off without displaying the battery level warning.
- The Olympus lithium ion battery is designed to be used only for the Olympus digital camera. Do not use the battery to other devices.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.
- When storing the battery for a long period, select a cool location for storage.
- 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.

USB-AC adapter

- The included USB-AC adapter F-2AC is designed to be used only with this camera. Other cameras cannot be charged with this USB-AC adapter.
- Do not connect the included USB-AC adapter F-2AC to equipment other than this camera.
- For plug-in type USB-AC adapter:
The included USB-AC adapter F-2AC is intended to be correctly orientated in a vertical or floor mount position.

Use Only Dedicated Rechargeable Battery, Battery Charger and USB-AC adapter

We strongly recommend that you use only the genuine Olympus dedicated rechargeable battery, battery charger and USB-AC adapter with this camera. Using a non-genuine rechargeable battery, battery charger and/or USB-AC adapter may result in fire or personal injury due to leakage, heating, ignition or damage to the battery. Olympus does not assume any liability for accidents or damage that may result from the use of a battery, battery charger and/or USB-AC adapter that are not genuine Olympus accessories.

Monitor

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

Legal and Other Notices

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

Disclaimer of Warranty

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

Warning

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

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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).

FCC Caution

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

For customers in North and South America

For customers in USA

Declaration of Conformity

Model Number: SP-100EE

Trade Name: OLYMPUS

Responsible Party:

OLYMPUS IMAGING AMERICA INC.

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

Telephone Number: 484-896-5000

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

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

Operation is subject to the following two conditions:

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

For customers in CANADA

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

OLYMPUS WORLDWIDE LIMITED WARRANTY - IMAGING PRODUCTS

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

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

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

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

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

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

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

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

WHAT TO DO WHEN SERVICE IS NEEDED

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

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

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

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

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

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

WHERE TO SEND PRODUCT FOR SERVICE

See "WORLDWIDE WARRANTY" for the nearest service center.

INTERNATIONAL WARRANTY SERVICE

International warranty service is available under this warranty.



"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

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

During the one year period of the World Wide Guarantee the customer may turn the product in at any Olympus service station. Please notice that not in all countries such Olympus service station exists.

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

Provisions of Guarantee

1 "OLYMPUS IMAGING CORP." grants a one year World Wide Guarantee. This worldwide Guarantee must be presented at an Olympus authorized repair service station before any repair can be made under conditions of this Guarantee. This Guarantee is valid only if the Guarantee Certificate and proof of purchase are presented at the Olympus repair service station. Please note that this Guarantee is in addition to and does not affect the customer's legal warranty rights under the applicable national legislation governing the sale of consumer goods mentioned above.

2 This Guarantee does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the Guarantee period referred to above.

- a. Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Handling Care or other sections of the instructions, etc.)
- b. Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.
- c. Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
- d. Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.

- e. Any defect that occurs due to careless or improper storage (such as keeping the product under conditions of high temperature and humidity, near insect repellents such as naphthalene or harmful drugs, etc.), improper maintenance, etc.
- f. Any defect that occurs due to exhausted batteries, etc.
- g. Any defect that occurs due to sand, mud, etc. entering the inside of the product casing.
- h. When the Guarantee Certificate is not returned with the product.
- i. When any alterations whatsoever are made to the Guarantee Certificate regarding the year, month and date of purchase, the customer's name, the dealer's name, and the serial number.
- j. When proof of purchase is not presented with this Guarantee Certificate.

3 This Guarantee applies to the product only; the Guarantee does not apply to any other accessory equipment, such as the case, strap, lens cap and batteries.

4 Olympus's sole liability under this Guarantee shall be limited to repairing or replacing the product. Any liability under the Guarantee for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect of the product, and in particular any loss or damage caused to any lenses, films, other equipment or accessories used with the product or for any loss resulting from a delay in repair or loss of data, is excluded. Compelling regulations by law remain unaffected by this.

Notes regarding Guarantee maintenance

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

For customers in Asia

Provisions of warranty

- 1** If this product proves to be defective, although it has been used properly (in accordance with the written Handling Care and Operating instructions supplied with it), during a period of up to one year from the date of purchase this product will be repaired, or at Olympus's option replaced, free of charge. To claim under warranty the customer must take the product and this Warranty certificate before the end of the one year warranty period to the dealer where the product was purchased or any Olympus authorized service station listed in the instructions and request the necessary repairs.
- 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.
- 3** This warranty does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the one year 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 this Warranty Certificate is not returned with the product.
 - i. When any alterations whatsoever are made to the Warranty 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 Warranty Certificate.

4 This Warranty applies to the product only; the Warranty does not apply to any other accessory equipment, such as the case, strap, lens cap and batteries.

5 Olympus' sole liability under this warranty shall be limited to repairing or replacing the product and any liability for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect in the product, and in particular any loss or damage caused to any film or lenses or other equipment or accessories used with the product or for any loss resulting from delay in repair, is excluded.

Notes:

- 1 This Warranty is in addition to and does not affect the customer's statutory right.
- 2 If you have any queries regarding this Warranty, call any of the Olympus authorized service stations listed in the instructions.

Notes regarding warranty maintenance

- 1 This Warranty will only be valid if the Warranty Certificate is duly completed by Olympus or the dealer. Make sure that your name, the name of the dealer, the serial number and the year, month and date of purchase are all completed.
- 2 Since this Warranty Certificate will not be re-issued, keep it in a safe place.
- 3 Any request for repair by a customer in same country where the product was purchased shall be subject to the terms of the warranty issued by the Olympus distributor in that country. Where the local Olympus distributor does not issue a separate warranty or where the customer is not in the country where the product was purchased the terms of this worldwide warranty shall apply.
- 4 Where applicable, this Warranty is valid worldwide. The Olympus authorized service stations listed in this Warranty will gladly honor it.
- * Please refer to the appended list for the authorized international Olympus service network.

Disclaimer of Warranty

Olympus makes no representations or warranties, either expressed or implied, by or concerning any content if 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 of inability to use these written materials or software. Some states do not allow the exclusion or limitation of liability for consequential or incidental damages, so the above limitations may not apply to you.

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- Eye-Fi is a registered trademark of Eye-Fi, Inc.
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- Apical logo is a registered trademark of Apical Limited.
- All other company and product names are registered trademarks and/or trademarks of their respective owners.



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The software in this camera may include third party software. Any third party software is subject to the terms and conditions, imposed by the owners or licensors of that software, under which software is provided to you.

Those terms and other third party software notices, if any, may be found in the software notice PDF file stored within the accompanying CD-ROM or at <http://www.olympus.co.jp/en/support/lmsg/digicamera/download/notice/notice.cfm>

- The standards for camera file systems referred to in this manual are the "Design rule for Camera File system/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).

Specifications

Camera

Product type	: Digital camera (for shooting and displaying)
Recording system	
Still pictures	: Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF))
Applicable standards	: Exif 2.3, Digital Print Order Format (DPOF), PRINT Image Matching III, PictBridge
Sound with still pictures	: Wave format
Movie	: MOV H.264 linear PCM
Memory	: Internal memory, SD/SDHC/SDXC (supports UHS-I)/Eye-Fi/FlashAir (with Wireless LAN function) card
No. of effective pixels	: 16,000,000 pixels
Image pickup device	: 1/2.3" CMOS (primary color filter)
Lens	: Olympus lens 4.3 to 215.0 mm, f2.9 to 6.5 (Equivalent to 24 to 1200 mm on a 35 mm film)
Viewfinder	
Type	: Electronic viewfinder
No. of pixels	: 920,000 pixels
Magnification	: 100%
Eye point	: Approx. 18.0 mm (-1 m^{-1})
Photometric system	: Digital ESP metering, spot metering system
Shutter speed	: 30 to 1/1700 sec.
Shooting range	
Normal	: 0.07 m (0.2 ft.) to ∞ (W), 3.5 m (11.5 ft.) to ∞ (T)
Super macro mode	: 0.01 m (0.03 ft.) to ∞ (f=4.3 mm (fixed))
Monitor	: 3.0" TFT color LCD display, 460,000 dots
Connector	: Multi-connector (DC-IN jack, USB connector, A/V OUT jack)/HDMI micro connector (type D)
Automatic calendar system	: 2000 up to 2099

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)
Power supply	: One Olympus lithium ion battery (LI-92B) or separately sold USB-AC adapter
Dimensions	: 121.2 mm (W) x 91.3 mm (H) x 133.2 mm (D) (4.8 x 3.6 x 5.2 in.) (excluding protrusions)
Weight	: 589 g (20.8 oz) (including battery and card)

Lithium ion battery (LI-92B)

Product type	: Lithium ion rechargeable battery
Model No.	: LI-92B
Standard voltage	: DC 3.6 V
Standard capacity	: 1350 mAh
Battery life	: Approx. 300 full charges (varies on usage)
Operating environment	
Temperature	: 0 °C to 40 °C (32 °F to 104 °F) (charging)

USB-AC adapter (F-2AC)

Model No.	: F-2AC-1B/F-2AC-2B
Power requirements	: AC 100 to 240 V (50/60 Hz)
Output	: DC 5 V, 500 mA
Operating environment	
Temperature	: 0 °C to 40 °C (32 °F to 104 °F) (operation)/ -20 °C to 60 °C (-4 °F to 140 °F) (storage)

Design and specifications subject to change without notice.

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



OLYMPUS KOREA CO., LTD.

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<http://www.olympus.co.kr> Tel. 1544-3200

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

OLYMPUS

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

OLYMPUS IMAGING AMERICA INC.

3500 Corporate Parkway, P.O. Box 610, Center Valley, PA 18034-0610, U.S.A. Tel. 484-896-5000

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

24/7 online automated help:

<http://www.olympusamerica.com/support>

Phone customer support:

Tel. 1-800-260-1625 (Toll-free)

Our phone customer support is available from

9 am to 9 pm (Monday to Friday) ET

<http://olympusamerica.com/contactus>

Olympus software updates can be obtained at:

<http://www.olympusamerica.com/digital>

OLYMPUS EUROPA SE & CO. KG

Premises: Consumer Product Division

Wendenstrasse 14-18, 20097
Hamburg, Germany

Goods delivery: Modul H, Willi-Bleicher Str. 36,
52353 Düren, Germany

Tel: +49 40-23 77 3-0 / Fax: +49 40-23 07 61

Letters: Postfach 10 49 08, 20034 Hamburg,
Germany

European Technical Customer Support:

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

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

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

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

OLYMPUS (CHINA) CO., LTD.

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

Customer Service Center:

A8F, Ping An International Financial Center, No. 1-3, Rm.1605-1608, Guangzhou International Electronic tower,
Xinyuan South Road, Chaoyang District, Beijing No403, Huan Shi East Road, Guang Zhou
Zip: 100027 Zip: 510095

A,32F Shanghai Industrial Investment Building 18
Cao Xi Road(N), Xuhui District, Shanghai
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OLYMPUS HONG KONG AND CHINA LIMITED

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

Customer Hotline: +852-2376-2150 Fax: +852-2375-0630

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