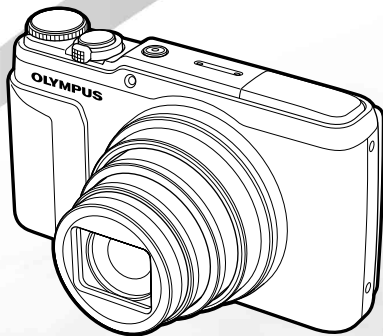


OLYMPUS[®]

DIGITAL CAMERA

SH-50

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.
- In the interest of continually improving products, Olympus reserves the right to update or modify information contained in this manual.

Checking the contents of the box



Digital camera



Strap



Lithium Ion
Battery
(LI-90B)



or



USB-AC adapter
(F-2AC)



USB cable
(CB-USB8)



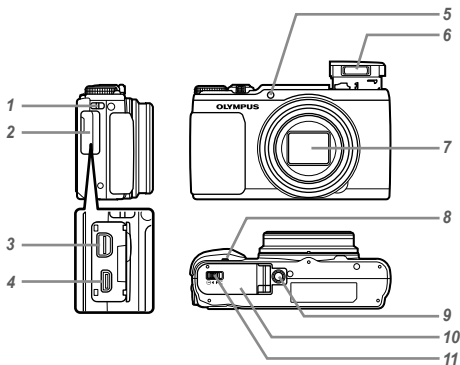
OLYMPUS Setup
CD-ROM



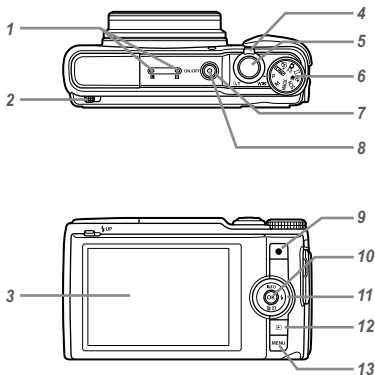
Stylus pen







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

Names of Parts

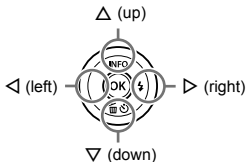



- 1 Strap eyelet
- 2 Connector cover
- 3 Multi-connector
- 4 HDMI micro connector
- 5 Self-timer lamp/
AF illuminator
- 6 Flash
- 7 Lens
- 8 Speaker
- 9 Tripod socket
- 10 Battery/card cover
- 11 Battery/card cover lock



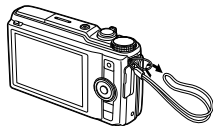
- 1 Stereo microphone
- 2 Flash switch
- 3 Monitor
- 4 Zoom lever
- 5 Shutter button
- 6 Mode dial
- 7 ON/OFF button
- 8 Indicator lamp
- 9  button (shooting movies)
- 10  button (OK)
- 11 Arrow pad
- INFO** (changing information display)
-  (flash)
-  (self-timer)
-  (erase)
- 12  button (switching between shooting and playback)
- 13 MENU button


Arrow pad



 $\Delta \nabla \triangleleft \triangleright$ instruct to press the up/down/left/right arrow pad.

Attaching the camera strap

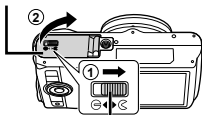


 Pull the strap tight so that it does not come loose.

Inserting and removing the battery and card (commercially available)

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

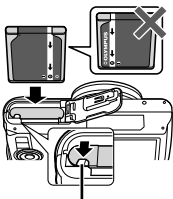
Battery/card cover



Battery/card cover lock

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

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

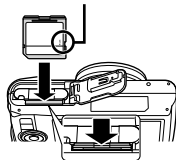


Battery lock knob

- ❗ Insert the battery as illustrated with the ⚡ mark toward the battery lock knob. Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.
- ❗ Slide the battery lock knob in the direction of the arrow to unlock, and then remove the battery.

3 Insert the card straight until it clicks into place.

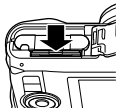
Write-protect switch



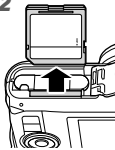
- ❗ Always use SD/SDHC/SDXC/Eye-Fi/FlashAir (with Wireless LAN function) card with this camera. Do not insert other types of memory cards. "Using the card" (p. 73)
- Do not touch the metallic parts of the card directly.

To remove the card

1

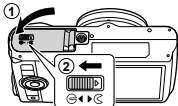


2



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

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



- ⚠ When using the camera, be sure to close and lock the battery/card cover.

Charging the battery

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

For charging the battery abroad, see “Using your charger and USB-AC adapter abroad” (p. 72).

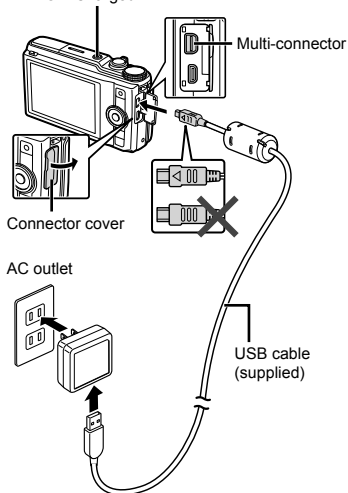
- The battery is not fully charged at shipment. Before use, be sure to charge the battery until the indicator lamp turns off (up to 4 hours).

Connecting the camera

Indicator lamp

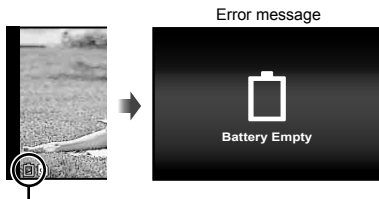
On: Charging

Off: Charged



When to charge the batteries

Charge the battery when the error message shown below appears.



Flashes in red

- ❗ 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.
 - ❗ The included USB-AC adapter has been designed to be used for charging and playback. Do not take pictures while the USB-AC adapter is connected to the camera.
 - ❗ 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. 80). For details on the USB-AC adapter, see "USB-AC adapter" (p. 81).
 - If the indicator lamp does not light, check the USB cable and USB-AC adapter connections.
- 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.)

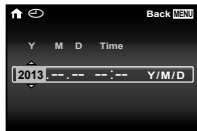
Turning on the camera and making the initial settings

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. 50).

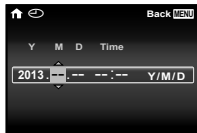
1 Press the ON/OFF button to turn on the camera, press $\Delta \nabla \triangleleft \triangleright$ of the arrow pad to select your language and press the **OK** button.

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



Date and time setting screen

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



4 As in Steps 2 and 3, press $\Delta \nabla \triangleleft \triangleright$ 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.

5 Press $\triangleleft \triangleright$ of the arrow pad to select time zone and then press the **OK** button.

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



Learning how to use the camera

- Press the **ON/OFF** button to turn on the camera and enter the standby mode. (Press the **ON/OFF** button again to turn off the camera.)
 - Select the shooting mode, and press the shutter button to shoot a still image.
 - To shoot a movie, press the **[]** button.
 - Set the shooting functions using the function menu or the setup menu.
- To view images, press the **[]** button to switch to playback mode.
 - To return to standby mode, press the **[]** button again, or press the shutter button halfway down and then release it.
- Press and hold the **[]** button while the camera is turned off to start up the camera in the playback mode.
 - In this case, pressing the **[]** button again sets the camera to the standby mode.

Using the Touch Panel

Use the touch panel by touching the screen with your finger.

- The touch panel can be used for operations marked with **[]** in this manual.
- Using a screen protector or gloves may cause poor operability.
- Use a stylus pen (supplied) when it is difficult to operate with your finger.

Using for the live guide (p. 15)

In **!AUTO** mode, the live guide can be set.

1 Touch **[]**.

- Touch an item to set the level.


2 Drag the level bar slider vertically to set the level, and touch **[]**.


- Touch **[]** to end the live guide.





Using for the shooting mode

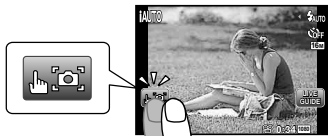
By touching the screen, the subject to be focused on can be set or the picture can be taken.

Every time  is touched, the operation is changed.

: The subject that is touched is focused on and the picture is taken automatically.

: The subject that is touched is AF locked. Press the shutter button to take the picture.

Touch  to release the AF lock. Focus lock ends when the shutter is released.

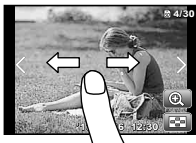


Using for the playback mode

The displayed image can be changed or enlarged.

Advancing and rewinding one frame at a time:

Drag the screen to left to advance one frame, and drag the screen to right to rewind one frame.




Zoom:

Touch  to enlarge the image.

- When the enlarged image is dragged, the displayed image is also moved.

Index:


Touch  to play back the image in index view.

- Touch the image to play back the image in single-image view.



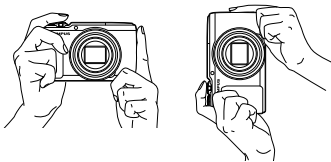
Playback (grouped image, panorama image, movie, Photo with Movie Clip, sound recorded with an image):



Touch .

- Touch  to expand the grouped images.

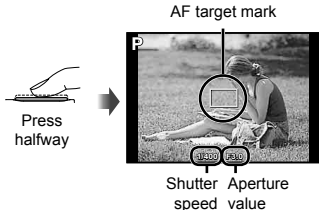
Shooting still images

- 1 Press the ON/OFF button to turn on the camera.**
- 2 Select the shooting mode. (p. 14)**
- 3 Hold the camera and compose the shot.**



-  When holding the camera, take care not to cover the flash, microphone or other important parts with your fingers, etc.
-  Take care so that the flash window is not exposed to fingerprints or dirt.

- 4 Press the shutter button halfway down to focus.**



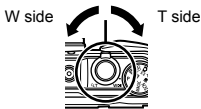
- The camera was unable to focus if the AF target mark flashes red. Try focusing again.

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



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 (not applicable when shooting a movie).



| Image size | Zoom bar |
|------------|--|
| 16M | <p>Optical zoom</p> <p>Super-resolution zoom*1</p> |
| Other | <p>*2</p> |

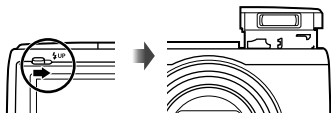
*1 For Super-resolution zoom, see [Super-Res Zoom] (p. 37).

*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 the flash

The flash functions can be selected to best match the shooting conditions.

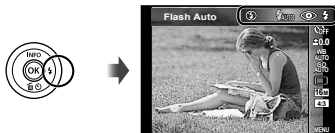
1 Slide the flash switch to raise the flash.



To turn off the flash

Press the flash down back into the camera.

2 Press .



3 Use \triangleleft \triangleright to select the setting option, and press the \odot button to set.

| Option | Description |
|------------|---|
| 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. |

Using the self-timer

After the shutter button is pressed all the way down, the picture is taken after a short delay.

1 Press ∇ .



2 Use \triangleleft \triangleright to select the setting option, and press the \odot button to set.

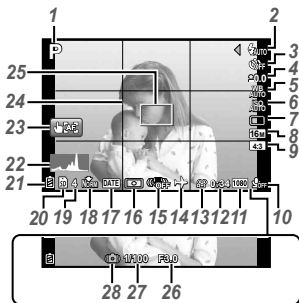
| Option | Description |
|------------------------------------|--|
| \odot Off | The self-timer is deactivated. |
| \odot 12 sec | The self-timer lamp turns on for approx. 10 seconds, then blinks for approx. 2 seconds, and then the picture is taken. |
| \odot 2 sec | The self-timer lamp blinks for approx. 2 seconds, then the picture is taken. |
| \odot Auto Release ^{*1} | When your pet (cat or dog) turns its head towards the camera, its face is recognized and the picture is taken automatically. |

^{*1} [Auto Release] is displayed only when the **SCN** mode is $\left[\text{SCN} \right]$ or $\left[\text{SCN} \right]$.

To cancel the self-timer after it starts

Press the **MENU** button.

Shooting screen displays

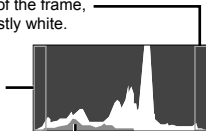


When the shutter button is pressed halfway down

Reading a histogram

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

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



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 Δ (INFO) is pressed.

| No. | Name | Normal | Detailed | No info. |
|-----|---|--------|----------|----------|
| 1 | Shooting mode | ✓ | ✓ | - |
| 2 | Flash | ✓ | ✓ | - |
| 3 | Self-timer | ✓ | ✓ | ✓ |
| 4 | Exposure compensation | ✓ | ✓ | - |
| 5 | White balance | ✓ | ✓ | - |
| 6 | ISO sensitivity | ✓ | ✓ | - |
| 7 | Drive | ✓ | ✓ | - |
| 8 | Image size (still images) | ✓ | ✓ | - |
| 9 | Aspect | ✓ | ✓ | - |
| 10 | Recording with sound/ wind noise reduction | ✓ | ✓ | - |
| 11 | Image size (movies) | ✓ | ✓ | - |
| 12 | Movie recording length | ✓ | ✓ | - |
| 13 | Movie recording icon | ✓ | ✓ | - |
| 14 | World time | - | ✓ | - |

| | | | | |
|----|-----------------------------------|---|---|---|
| 15 | Image stabilization | - | ✓ | - |
| 16 | Metering | - | ✓ | - |
| 17 | Date stamp | ✓ | ✓ | - |
| 18 | Compression | ✓ | ✓ | - |
| 19 | Number of storable still pictures | ✓ | ✓ | - |
| 20 | Current memory | ✓ | ✓ | - |
| 21 | Battery check | ✓ | ✓ | - |
| 22 | Histogram | - | ✓ | - |
| 23 | Touch screen mode | ✓ | ✓ | ✓ |
| 24 | Grid Guide | - | ✓ | - |
| 25 | AF target mark | ✓ | ✓ | ✓ |
| 26 | Aperture value | ✓ | ✓ | ✓ |
| 27 | Shutter speed | ✓ | ✓ | ✓ |
| 28 | Camera shake warning | ✓ | ✓ | ✓ |

Selecting the shooting mode

 The default settings of the function are highlighted in .

| Shooting mode | Submode |
|--|--|
| P (P mode) | – |
| iAUTO (iAUTO mode) | – |
|  (Advanced Movie mode) |  Photo in Movie/ 60i 60i Movie/ HS High-Speed Movie |
|  (Photo with  Clip mode) | 73 / 53 / 83 / 70 / 50 / 80 |
|  (Panorama mode) | Auto/Manual |
|  (Hand-Held Starlight mode) | – |
| SCN (SCN mode) |  Portrait / B Beauty /  Landscape /  Night Scene /  Night+Portrait /  Sport /  Indoor /  Self Portrait /  Sunset /  Fireworks /  Cuisine /  Documents /  Beach & Snow /  Pet Mode - Cat /  Pet Mode - Dog /  Super Macro /  Backlight HDR |
| MAGIC (MAGIC mode) | Pop Art/Pin Hole/Fish Eye/Soft Focus/Punk/Sparkle/Watercolor/Reflection/Miniature/Fragmented/Dramatic |
| M (Manual mode) | – |

- “List of settings available in each shooting mode” (p. 69), “List of **SCN** settings” (p. 70)
- In certain shooting modes, the camera may take a few moments for image processing after taking a picture.

1 Use the mode dial to select the shooting mode.

- ! In +, , , **SCN**, or **MAGIC**, press of the arrow pad for the function menu, then press of the arrow pad for the sub menu, and press the button.



To select a submode



Icon indicating the submode that is set

Learning about the shooting modes

P (P mode)

The camera will select the appropriate aperture value and shutter speed for the subject. Changes can also be made to various shooting settings, such as exposure compensation, as needed.

iAUTO (iAUTO mode)

The camera will automatically select the optimal shooting mode for the scene. The shooting condition is decided by the camera and settings cannot be changed, excepting some functions.

Using the live guide

The live guide can be used to change settings in **iAUTO** mode.

Guide items

- Change Color Saturation
- Change Color Image
- Change Brightness

- ① Press to display the live guide.

- ② Use Δ ∇ to highlight an item and press OK .

Guide item



- ③ Use Δ ∇ to choose a level and check the effect or description.

- Press the shutter button halfway to select.

Level bar




- ④ Press the shutter button to take a picture.
- To clear the live guide from the display, press the **MENU** button.

- Pictures may appear grainy at some live guide setting levels.
- Changes to the live guide setting levels may not be visible on the screen.
- The flash can not be used with the live guide.
- Changes to the live guide options cancel previous changes.
- Choosing the live guide settings that exceed the limits of the camera exposure meters may result in pictures that are over- or under-exposed.

(Advanced Movie mode)







You can shoot the movie by using the evolving movie function.

| Submenu | Description |
|--|--|
|  | Captures still images as you shoot a movie. During a single movie, you can capture a maximum of 12 still images. |
| 60i | Shoots a smooth movie at 60 frames/second. Image size is fixed at full HD (1920×1080). |
| HS | Shoots a fast-moving subject and play back in slow motion. HS120fps (1280×720), HS240fps (432×324) |

- Except in Photo in Movie, you cannot take still images by pressing the shutter button. The Photo in Movie function is also enabled when shooting in **P** mode or **iAUTO** mode.
- The flash is not available when capturing still images using Photo in Movie.

(Photo with Clip mode)

When shooting a still image, a movie clip that includes before and after the shutter release is recorded simultaneously.

| Submenu | Description |
|---|---------------|
|  | 7 sec / 3 sec |
|  | 5 sec / 3 sec |
|  | 3 sec / 3 sec |
|  | 7 sec / 0 sec |
|  | 5 sec / 0 sec |
|  | 3 sec / 0 sec |

- Shooting may not be available in the following conditions; right after entering the shooting mode (such as right after turning power on) or right after a picture is shot.
- The image size of the movie is set to VGA.

(Panorama mode)

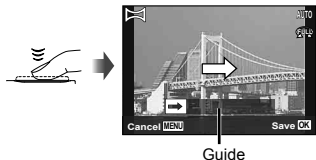
You can shoot and combine multiple images to create an image with a wide angle of view (panoramic image).

| Submenu | Application |
|---------|---|
| Auto | Panorama images are automatically combined just by swinging the camera in the shooting direction. |
| Manual | 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 Select [Auto] in the submenu, and use $\triangleleft \triangleright$ to select the angle of view (STD:180°, FULL:360°) and then press the \odot button.
- ② Point the camera to the start position.
- ③ Press the shutter button to begin shooting.

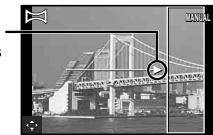


- ④ Start panning. When the arrow reaches the end of the guide, recording ends automatically.
 - The camera automatically processes the images and the combined panorama image is displayed.
 - To stop shooting in the middle, press the shutter button or \odot button. If the camera pauses for a while, shooting 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 $\triangle \nabla \triangleleft \triangleright$ to specify at which edge the next picture is to be connected.

Direction for combining frames



- ② Press the shutter button to take the first frame.
- 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 **OK** button.
- ④ Repeat step ③ to take a third frame. The camera automatically combines the frames into a single panorama image.

(Hand-Held Starlight mode)

Night scene pictures with less camera shake can be taken without using a tripod. The flash function can also be used.

SCN (SCN mode)

You can shoot with the best mode for the subject and shooting scene. The best shooting settings for various scenes are pre-programmed as submodes. Note that functions may be limited in some modes.

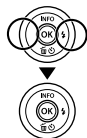
Refer to the descriptions displayed on the submode selection screen, and select the desired submode.

To take photos with the **B*** (Beauty) setting

- ① Select [**B*** Beauty].
- ② Press ∇ to go to the submenu.



- ③ Use \triangleleft to select the retouching setting, and press the **OK** button to set.



Retouching setting

- ④ Point the camera toward the subject. Check the frame appearing around the face detected by the camera, and then press the shutter button to take the picture.
- ⑤ To save the image, select [OK] on the review screen and press the **OK** button. To retouch the image additionally, select [Beauty Fix].



Beauty Fix

- 1 Use Δ ∇ \triangleleft \triangleright to select a retouching item, and press the \odot button.



- 2 Check the retouched effects on the review screen, then press the \odot button to start the retouch process and save.
- Settings for Beauty Fix can be registered.
 - Depending on the picture, the editing may not be effective.

MAGIC (MAGIC mode)

You can shoot with special effects. Refer to the sample images displayed on the submode selection screen, and select the desired submode.

The best shooting settings for each effect are pre-programmed, so some function settings cannot be changed.

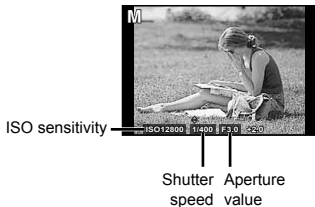
- Note that some effects may not be applied to movies.

M (Manual mode)

In this mode, the camera automatically sets an appropriate aperture value, shutter speed and ISO sensitivity.



After pressing \triangleleft , you can select aperture value, shutter speed or ISO sensitivity using \triangleleft \triangleright , and change the value using Δ ∇ .



- While shooting at slow shutter speeds, noise may appear on-screen.

Viewing images

1 Press the button.

Number of frames/
Total number of images






Playback image


- Pictures taken using **B** mode, sequential shooting function or Photo in Movie are displayed as a group. Turn the zoom lever to the T side to play back the image in the group.

2 Use to select an image.



- Hold  to fast forward and hold  to reverse.
- Press the  button again to return to the shooting screen.

To play sound recordings

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

- Press   to adjust volume.

Index view and close-up view

Index view enables quick selection of a desired image. Close-up view (up to 10× magnification) allows checking of image details.

1 Turn the zoom lever.



Single-image view



Close-up view



W ↓ ↑ T

Index view



To select an image in index view

Use $\Delta \nabla \langle \rangle$ to select an image, and press the \odot button to display the selected image in single-image view.

To scroll an image in close-up view

Use $\Delta \nabla \langle \rangle$ to move the viewing area.

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 \odot button.



Viewing area

To control panorama image playback

Stop playback: Press the MENU button.

Pause: Press the \odot button.


Control while paused



Press $\Delta \nabla \langle \rangle$ to scroll the image in the direction of the pressed button.

Turn the zoom lever to enlarge/shrink the image.

Press the \odot button to restart scrolling.

Playing back grouped images

With **B***, Sequential, Photo with  Clip or Photo in Movie, the taken images are displayed as a group during playback.

| | |
|---|---|
| <p>T side</p>  | <p>Expands (except for Photo with  Clip).</p> <ul style="list-style-type: none">• Select the image and press the \odot button to display the images respectively.• Use $\langle \rangle$ to view the previous/next frame. |
| <p>\odot button</p> | <p>Playback/pauses playback.</p> |

Sequential images frame

- The sequentially shot images are played back automatically.
- Expand to view the images in index view.



Sequential images frame


Photo with Clip frame

- The movie clip and the still images are played back.



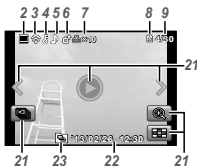
Photo with Clip frame

Photo in Movie frame

- The movie and the still images are played back.
- Expand to view the images in index view.
- Pause the playback and turn the zoom lever to the W side to display the still images as a chapter index of the movie. Select the still image and press the  button to play back the movie from that point.

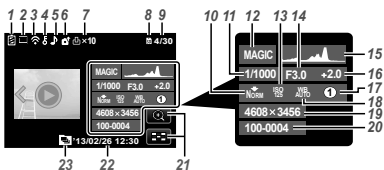
Playback mode display

• Normal



Still image

• Detailed



• No information



Switching the displays

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

| No. | Name | Normal | Detailed | No info. |
|-----|--|--------|----------|----------|
| 1 | Battery check | – | ✓ | – |
| 2 | Photo with movie clip | ✓ | ✓ | ✓ |
| 3 | Eye-Fi transfer data | ✓ | ✓ | – |
| 4 | Protect | ✓ | ✓ | – |
| 5 | Adding sound | ✓ | ✓ | – |
| 6 | Upload order | ✓ | ✓ | – |
| 7 | Print reservation/ number of prints | ✓ | ✓ | – |
| 8 | Current memory | ✓ | ✓ | – |
| 9 | Frame number/ total number of images | ✓ | ✓ | – |
| 10 | Compression/ number of image quality | – | ✓ | – |
| 11 | Shutter speed | – | ✓ | – |
| 12 | Shooting mode | – | ✓ | – |
| 13 | ISO sensitivity | – | ✓ | – |
| 14 | Aperture value | – | ✓ | – |
| 15 | Histogram | – | ✓ | – |
| 16 | Exposure compensation | – | ✓ | – |
| 17 | Shooting submode | – | ✓ | – |
| 18 | White balance | – | ✓ | – |
| 19 | Image size | – | ✓ | – |
| 20 | File name | – | ✓ | – |
| 21 | Touch screen mode | ✓ | ✓ | ✓ |
| 22 | Recording date and time | ✓ | ✓ | – |
| 23 | Grouped images | ✓ | ✓ | ✓ |

Erasing images during playback

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

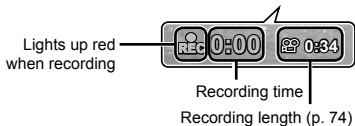
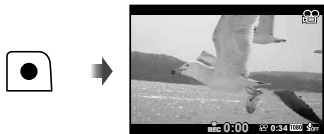


- 2 Press Δ ∇ to select [Erase], and press the OK button.

- Grouped images are erased as a group. If you want to delete images from the grouped images, you can expand the group and delete the images individually.
- Multiple images or all images can be erased at a time (p. 42).

Shooting movies

- 1 Press the REC 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 REC button again to stop recording.

Playing back movies

Select a movie, and press the **OK** button.



Movie

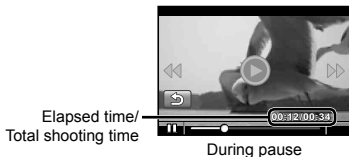


During playback

- Turn the zoom lever to the T side to display the movie index. Use $\Delta \nabla \triangleleft \triangleright$ to select the frame to start playback.

| | |
|--|--|
| Pausing and restarting playback | Press the OK button to pause playback. During pause, fast forward or reverse, press the OK button to restart playback. |
| Fast forward | Press \triangleright to fast forward. Press \triangleright again to increase the fast forward speed. |
| Rewind | Press \triangleleft to rewind. Press \triangleleft again to increase the rewind speed. |
| Adjusting the volume | Use $\Delta \nabla$ to adjust the volume. |

Operations while playback is paused



| | |
|--|--|
| Jump | Press $\Delta \nabla$ to jump to the previous/next index. |
| Advancing and rewinding one frame at a time | Press \triangleright or \triangleleft to advance or rewind one frame at a time. Hold \triangleright or \triangleleft pressed for continuous advance or rewind. |
| Resuming playback | Press the OK button to resume playback. |

- During a pause, the split index display is available.

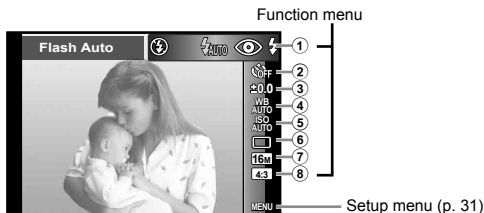
To stop movie playback

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.

Menu settings

For details, refer to “List of settings available in each shooting mode” (p. 69).



Function menu
















| | |
|-------------------------|-------------------|
| ① Flash | ⑤ ISO sensitivity |
| ② Self-timer | ⑥ Drive |
| ③ Exposure compensation | ⑦ Image Size |
| ④ White balance | ⑧ Aspect |


















Using the function menu

- 1 Use \triangleleft of the arrow pad to display the function menu.
- 2 Use \triangle ∇ of the arrow pad to select the function to be set.
- 3 Use \triangleleft \triangleright of the arrow pad to select the setting value, and then press the OK button to enter the setting.

Example: Exposure compensation





| | |
|--|--|
| 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. |
| Self-timer | Sets the time after the shutter button is pressed until the picture is taken. |
|  Off | The self-timer is deactivated. |
|  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. |
|  Auto Release | When your pet (cat or dog) turns its head towards the camera, its face is recognized and the picture is taken automatically. |
| 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 | 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. 30). |
|  One Touch 2 | |

| | | |
|--|---|---|
| ISO sensitivity | Sets the ISO sensitivity. | |
|  ISO Auto | | The camera automatically sets the sensitivity with priority on image quality. |
|  High ISO Auto | | The camera automatically sets the sensitivity with priority on minimizing blur caused by a moving subject or by camera shake. |
|  Value | | Set a smaller value to reduce noise in the picture, or a larger value to reduce blur. |
| Drive | Sets the sequential shooting function. | |
|  Single | | One frame is shot each time the shutter button is pressed. |
|  Sequential 1 | | The camera takes sequential shots at approximately 2.5 frames/sec. |
|  Sequential 2 | | The camera takes up to 17 sequential shots at approximately 10 frames/sec. |
|  High-Speed1 | | The camera takes up to 60 sequential shots at approximately 15 frames/sec. |
|  High-Speed2 | | The camera takes up to 60 sequential shots at approximately 60 frames/sec. |
|  Auto Split Shooting | | The camera takes up to 16 photos at regular intervals while holding the shutter button. |
| Image size | Sets the number of recording pixels. | |
|  4608×3456 | | Suitable for printing pictures over A3 (11×17 in.). |
|  3200×2400 | | Suitable for printing pictures up to A3 (11×17 in.). |
|  1920×1440 | | Suitable for printing pictures up to A4 size (8.5×11 in.). |
|  640×480 | | 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 | | |

- In certain shooting modes, some functions cannot be set. Refer to "List of settings available in each shooting mode" (p. 69).
- 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.

Setup menu

| | Camera Menu 1 | Back MENU |
|----|---------------|-----------|
| 9 | Reset | |
| 10 | Compression | Normal |
| 11 | Shadow Adjust | Auto |
| 12 | Touch Shutter | Off |
| 13 | AF Mode | Face/ESP |
| 14 | ESP/ | ESP |
| 15 | Digital Zoom | Off |

| | | |
|----|---|-------|
| 9 | Camera Menu 1 | p. 33 |
| | Reset Compression Shadow Adjust Touch Shutter AF Mode ESP/ Digital Zoom | |
| 10 | Camera Menu 2 | p. 35 |
| | Image Stabilizer (Still images) AF Illuminat. Rec View Pic Orientation Icon Guide Date Stamp Super-Res Zoom | |
| 11 | Movie Menu | p. 38 |
| | Image Size IS Movie Mode (Movie sound recording) Wind Noise Setting | |

| | | |
|----|---|-------|
| 12 | Playback Menu | p. 39 |
| | Slideshow Edit Erase (Protect) FlashAir | |
| 13 | Settings Menu 1 | p. 44 |
| | Memory Format/Format Backup Eye-Fi Print Order Upload Order USB Connection Power On | |
| 14 | Settings Menu 2 | p. 45 |
| | Sound Settings File Name Pixel Mapping (Monitor) TV Out Power Save (Language) | |
| 15 | Settings Menu 3 | p. 50 |
| | (Date/time) World Time Beauty Settings Touch Calibration | |

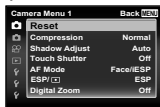
Using the setup menu

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.

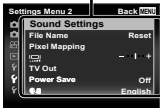


2 Press \triangleleft to select the page tabs. Use \triangle / ∇ to select the desired page tab and press \triangleright .

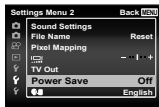
Page tab



Submenu 1



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



Submenu 2




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.

- The default settings of the function are highlighted in .
- For the operation method, refer to “Using the setup menu” (p. 32).

Camera Menu 1

Restoring the shooting functions to the default settings [Reset]

| Submenu 2 | Application |
|-----------|--|
| Yes | Restores the following menu functions to the default settings. <ul style="list-style-type: none"> • Flash • Self-timer • Exposure compensation • White balance • ISO sensitivity • Drive • Image Size (still images) • Aspect • 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. 74)

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/, ], [Shadow Adjust] is automatically fixed to [Off].

Setting the Touch Shutter function

[Touch Shutter]

| Submenu 2 | Application |
|-----------|---|
| On | The subject that is touched is focused on and the picture is taken automatically. |
| Off | The subject that is touched is AF locked. (Press the shutter button manually.) |

- This setting can also be changed by touching the panel. "Using for the shooting mode" (p. 9)

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.

Selecting the method for measuring the brightness

[ESP/Spot]

| 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. 37)

Camera Menu 2

Reducing the blur caused by the camera shake when shooting

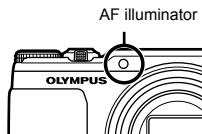
[Image Stabilizer]

| 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. |

- While [Image Stabilizer] is active, camera may sound during image stabilization.
- The image stabilizer cannot correct excessive camera shake or camera shake that occurs when the shutter speed is set to the slowest speed. In these cases, it is recommended that you use a tripod.

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. |




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. |
| On | The image being recorded is displayed. This allows the user to make a brief check of the image that was just taken. |

Automatically rotating images shot with the camera in a vertical position during playback

[Pic Orientation]

- During shooting, the  (p. 41) 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. |

Displaying icon guides

[Icon Guide]

| Submenu 2 | Application |
|-----------|---|
| Off | No icon guide is displayed. |
| On | The explanation of the selected icon will be displayed when a shooting mode or function menu icon is selected (position the cursor on the icon for a while to display the explanation). |




Icon guide

Imprinting the date of recording

[Date Stamp]

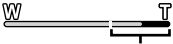


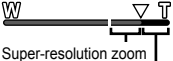
| Submenu 2 | Application |
|-----------|---|
| Off | Do not imprint the date. |
| On | Stamp new photographs with the date of recording. |

- When the date and time are not set, [Date Stamp] cannot be set. "Turning on the camera and making the initial settings" (p. 7)
- The date stamp can not be deleted.
- When drive settings are set to other than , [Date Stamp] cannot be set.

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 |  |
| On | On | 16M |  Super-resolution zoom 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”.

Movie Menu

Selecting the image size for movies [Image Size]

| Submenu 2 | Application |
|--------------------------------|--|
| 1080p 720p VGA (640×480) | Select the image quality based on the image size and frame rate. |

- “Number of storable pictures (still images)/ Recording length (movies) in the internal memory and cards” (p. 74)

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.

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. |

▶ Playback Menu

Playing back images automatically ▶ [Slideshow]

| Submenu 2 | Submenu 3 | Application |
|-----------|---|--|
| BGM | Off/MIX/ Cosmic/ Breeze/ Mellow/ Dreamy/ Urban | Selects the background music options. |
| Type | Normal/ Short/ Long | Selects the type of transition effect used between slides. |
| 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.

Changing the image size ▶ [VGA]

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

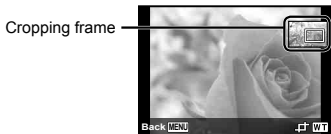
| Submenu 1 | Submenu 2 | Submenu 3 |
|-----------|-----------|-----------|
| Edit | ▶ | 3M VGA |

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

Cropping image ▶ [C]

| Submenu 1 | Submenu 2 |
|-----------|-----------|
| Edit | C |

- 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 Δ▽◀▶ to move the frame.



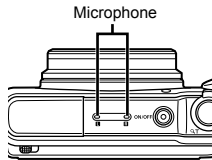
- ③ Press the Ⓞ button after you have selected the area to trim.
 - The edited image is saved as a separate image.

Adding sound to still images



| Submenu 1 | Submenu 2 |
|-----------|-----------|
| Edit | |

- 1 Use <Left><Right> 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.

Retouching faces on still images



| Submenu 1 | Submenu 2 |
|-----------|------------|
| Edit | Beauty Fix |

- Depending on the picture, the editing may not be effective.
- 1 Use <Left><Right> to select an image, and press the **OK** button.
 - 2 Use **Up**/**Down** to select a retouching item, and press the **OK** button.
 - 3 To save the image, select [OK] on the review screen and press the **OK** button. To retouch the image additionally, select [Beauty Fix].
 - The retouched image is saved as a separate image.



- The [Image Size] of the retouched image is limited to **[3M]** or lower.

Beauty Fix

- 1 Select a retouching item and retouching level, and press the **OK** button.



- 2 Press the **OK** button on the review screen.

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.

Rotating images ▶ [↻]

| Submenu 1 | Submenu 2 |
|-----------|-----------|
| Edit | ↻ |

- 1 Use **<>** to select an image.
- 2 Press the **OK** 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.

Capturing still images from movies

[In-Movie Image Capture]

| Submenu 1 | Submenu 2 |
|-----------|------------------------|
| Edit | In-Movie Image Capture |

- 1 Use \triangleleft \triangleright to select the movie and press the \odot button.
 - 2 Use \triangleleft \triangleright to display the frame to be captured and press the \odot button.
- The selected frame is recorded as a still image.

Trimming long movies

[Movie Trimming]

| Submenu 1 | Submenu 2 |
|-----------|----------------|
| Edit | Movie Trimming |

- 1 Use \triangleleft \triangleright to select the movie and press the \odot button.

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

- 2 Use \triangleleft \triangleright to display the frame to start erasing, and then press the \odot button.
- 3 Use \triangleleft \triangleright to display the frame to end erasing, and then press the \odot button.

- 4 Use \triangle ∇ to select [Erase] and press the \odot 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.

When editing movies in a group

- 1 Expand the desired group.
"Playing back grouped images" (p. 22)
- 2 Use \triangleleft \triangleright to select the movie and press the \odot button.
 - When you expand the group to edit respective movie, the edited movie can be saved respectively as [New File].

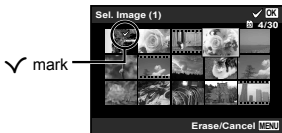
Erasing images [Erase]

| 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. |

- 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 \odot button.
- 2 Use $\Delta \nabla \langle \triangleright \rangle$ to select the image to be erased, and press the \odot button to add a \checkmark mark to the image.
 - Turn 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 \odot 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 \odot button.
- 2 Use $\Delta \nabla$ to select [Yes], and press the \odot button.

Protecting images \square \odot

- Protected images cannot be erased by [Erase] (p. 25, 42), [Sel. Image] (p. 42), [Erase Group] (p. 42), or [All Erase] (p. 42), but all images are erased by [Memory Format]/[Format] (p. 44).
- 1 Use $\langle \triangleright \rangle$ to select an image.
 - 2 Press the \odot button.
 - Press the \odot 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.

Connecting to Smartphone

\square [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.

| 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://olympuspen.com/OIShare/>
- Before use, refer to "FlashAir/Eye-Fi card" (p. 73).

Ÿ Settings Menu 1

Erasing data completely

Ÿ [Memory Format]/ Ÿ [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 Ÿ [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 Ÿ [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. 73).

Saving print settings to the image data Ÿ [Print Order]

- "Print Reservations" (p. 59)
- Print reservation can be set only for still images that are recorded to the card.

Setting images to upload to Internet using OLYMPUS Viewer 3 Ÿ [Upload Order]


- ① Use <[D]> 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 the PC software and registering user" (p. 53).
 - For details on uploading images, refer to OLYMPUS Viewer 3 "Help".

Selecting a method for connecting the camera to other devices Ÿ [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, 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 with a computer" (p. 52) for the connection method with a computer.

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

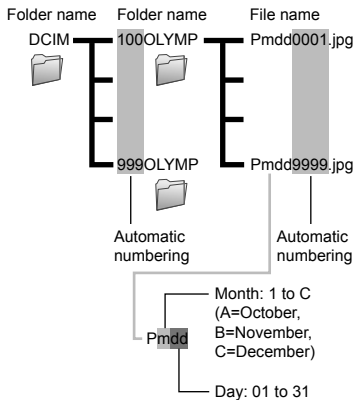
| Submenu 2 | Application |
|-----------|---|
| No | The camera is not turned on. To turn on the camera, press the ON/OFF button. |
| Yes | Press and hold the  button to turn the camera on in the playback mode. |

Ÿ Settings Menu 2

Selecting the camera sound and its volume Ÿ [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. |

Resetting the file names of pictures Ψ [File Name]



| Submenu 2 | Application |
|-----------|--|
| Reset | This resets the sequential number for the folder name and file name whenever a new card is inserted.* ¹ This is useful when grouping images on separate cards. |
| Auto | Even when a new card is inserted, this continues the numbering for the folder name and file name from the previous card. This is useful for managing all image folder names and files names with sequential numbers. |

*¹ The number for the folder name is reset to 100, and the one for the file name is reset to 0001.

Adjusting the image processing function Ψ [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

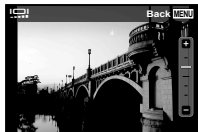
Press the \odot button when [Start] (Submenu 2) is displayed.

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

Adjusting the brightness of the monitor

To adjust the monitor brightness

- ① Use Δ ∇ to adjust the brightness while viewing the screen, and then press the OK button.



Playing back images on a TV *f* [TV Out]

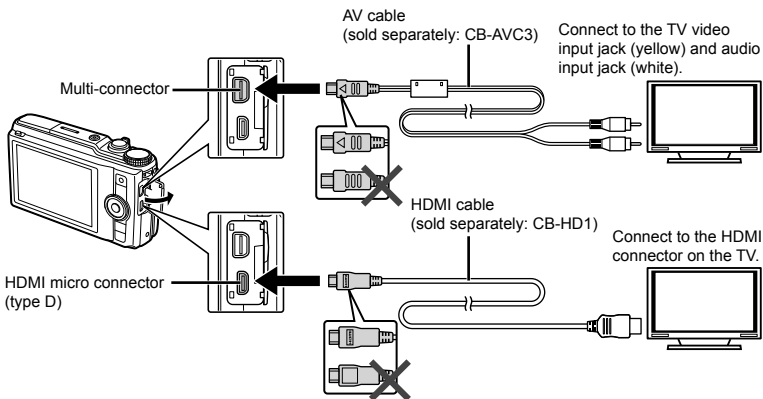
- !** The TV video signal system varies depending on the countries and regions. Before viewing camera images on your TV, select the video output according to your TV's video signal type.

| 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 | 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. |

- !** The factory default settings differ according to the region where the camera is sold.

To play back camera images on a TV

- Connection via AV cable
 - ① Use the camera to select the same video signal system as the one of connected TV ([NTSC]/[PAL]).
 - ② Connect the TV and camera.
- Connection via HDMI cable
 - ① On the camera, select the digital signal format that will be connected ([480p/576p]/[720p]/[1080i]).
 - ② Connect the TV and camera.
 - ③ Turn on the TV, and change "INPUT" to "VIDEO (an input jack connected to the camera)".
 - ④ Turn on the camera, and use $\Delta \nabla \langle \rangle$ to select the image for playback.
- When the camera is connected to the computer by the USB cable, do not connect the HDMI cable to the camera.



- For details on changing the input source of the TV, refer to the TV's instruction manual.
- When the camera and TV are connected by both an AV cable and an HDMI cable, the HDMI cable will take priority.
- Depending on the TV's settings, the displayed images and information may become cropped.

To operate images with the TV remote control

- ① Set [HDMI Control] to [On], and turn off the camera.
 - ② Connect the camera and TV with an HDMI cable. "Connection via HDMI cable" (p. 48)
 - ③ First turn on the TV, and then turn on the camera.
 - Operate by following the operation guide that is displayed on the TV.
- With some TVs, operations cannot be performed with the TV remote control even though the operation guide is displayed on the screen.
 - If operations cannot be performed with the TV remote control, set [HDMI Control] to [Off] and operate using the camera.

Saving battery power between shots [Power Save]

| Submenu 2 | Application |
|-----------|--|
| Off | Cancels [Power Save]. |
| On | When the camera is not being used for approx. 10 seconds, the monitor automatically turns off to save battery power. |

To resume standby mode










Press any button.

Changing the display language [🗨️]

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

Settings Menu 3


Setting the date and time









- Press   of the arrow pad to select the year for [Y].
- Press  of the arrow pad to save the setting for [Y].
- As in Steps ① and ②, press     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.



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.

Choosing home and alternate time zones [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 .

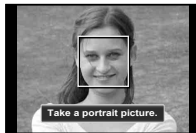
| Submenu 2 | Submenu 3 | Application |
|---|---|---|
| Home/ Alternate |  | The time in the home time zone (the time zone selected for  in submenu 2). |
| |  | The time in the travel destination time zone (the time zone selected for  in submenu 2). |
|  ^{*1} | — | Select the home time zone ( . |
|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

^{*1} In areas where daylight saving time is in effect, use   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 (.

Registering the settings for Beauty Fix Ÿ [Beauty Settings]

- Depending on the picture, the editing may not be effective.
- ① Use Δ ∇ to select a retouching setting, and press the OK button.
 - ② Press the shutter button to take a portrait picture.



- The image is not saved.
- ③ Select a retouching item and retouching level, and press the OK button.



- ④ Press the OK button on the review screen to save the image.
 - Registration is complete.

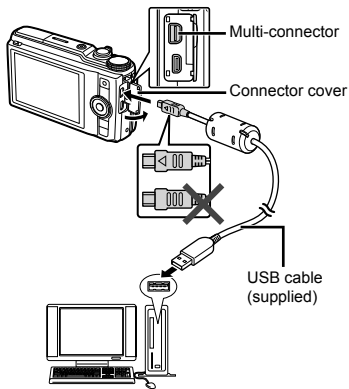
Calibrating the touch panel Ÿ [Touch Calibration]

Touch the panel following the instructions on the screen.

Connecting with a computer

Set [USB Connection] in the setup menu of the camera beforehand. (p. 45)

Connecting the camera



When [USB Connection] is set to [Auto], connect the camera and the computer, select [Storage] or [MTP] at the screen for selecting the connection method, and then press the **OK** button.

System requirements

Windows : Windows XP Home Edition/
Professional (SP1 or later)/
Windows Vista/Windows 7/
Windows 8

Macintosh : Mac OS X v10.3 or later

- Even if a computer has USB ports, proper operation is not guaranteed in the following cases:
 - Computers with USB ports installed using an expansion card, etc.
 - Computers without a factory-installed OS and home-built computers
- When the computer does not support SDXC cards, a message may appear urging to format the internal memory or card. (Formatting will completely erase all images, so do not format.)

Installing the PC software and registering user

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

- 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 Register your Olympus product.

- Click the “Registration” button and follow the on-screen instructions.
- To register the camera must be connected to the computer. “Connecting the camera” (p. 52)
- If nothing is displayed on the camera screen even after connecting the camera to the computer, the battery may be exhausted. Charge the battery and then connect the camera again.

3 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.

OLYMPUS Viewer 3

| | |
|-----------------------|---|
| Operating System | Windows XP (Service Pack 2 or later)/ Windows Vista/Windows 7/ Windows 8 |
| Processor | Pentium 4 1.3 GHz or better (Core 2 Duo 2.13 GHz or better required for movies) |
| RAM | 1GB or more (2GB or more recommended) |
| Free Hard Drive Space | 3GB or more |
| Monitor Settings | 1024 × 768 pixels or more Minimum 65,536 colors (16,770,000 colors recommended) |

- See online help for information on using the software.

4 Install the camera manual.

- Click the “Camera Instruction Manual” button and follow the on-screen instructions.

Macintosh

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

- Double-click the CD (OLYMPUS Setup) 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.
- You can register via “Registration” in OLYMPUS Viewer 3 “Help”.

OLYMPUS Viewer 3

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

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

3 Copy the camera manual.

- Click the “Camera Instruction Manual” button to open the folder containing the camera manuals. Copy the manual for your language to the computer.

Direct printing (PictBridge)

By connecting the camera to a PictBridge-compatible printer, you can print images directly without using a computer.

To find out if your printer supports PictBridge, refer to the printer's instruction manual.

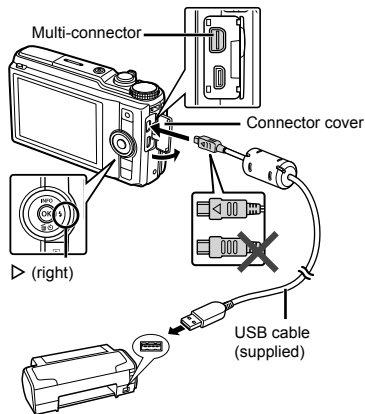
- The printing modes, paper sizes, and other parameters that can be set with the camera vary depending on the printer that is used. For details, refer to the printer's instruction manual.
- For details on the available paper types, loading paper, and installing ink cassettes, refer to the printer's instruction manual.
- In the setup menu, set [USB Connection] to [Print]. [USB Connection] (p. 45)

Printing images at the printer's standard settings [Easy Print]

1 Display the image to be printed on the monitor.

- “ Viewing images” (p. 21)

2 Turn on the printer, and then connect the printer and camera.



3 Press to start printing.

4 To print another image, use to select an image, and press the button.

To exit printing

After a selected image is displayed on the screen, disconnect the USB cable from the camera and printer.

Changing the printer's settings for printing [Custom Print]

1 Display the image to be printed on the monitor.

- “[Viewing images]” (p. 21)

2 Turn on the printer, and then connect the printer and camera.

3 Press the **OK** button.

4 Use Δ ∇ to select the print mode, and press the **OK** button.

| Submenu 2 | Application |
|--------------------------|---|
| Print | This prints the image selected in Step 8. |
| All Print | This prints all images stored in the internal memory or card. |
| Multi Print | This prints one image in a multiple layout format. |
| All Index | This prints an index of all images stored in the internal memory or card. |
| Print Order ¹ | This prints images based on the print reservation data on the card. |

¹ [Print Order] is available only when print reservations have been made. “Print Reservations” (p. 59)

5 Use Δ ∇ to select [Size] (Submenu 3), and press \triangleright .

- If the [Printpaper] screen is not displayed, the [Size], [Borderless], and [Pics/Sheet] are set to the printer's standard.



6 Use Δ ∇ to select the [Borderless] or [Pics/Sheet] settings, and press the **OK** button.

| Submenu 4 | Application |
|---|--|
| Off/ On ¹ | The image is printed with a border around it ([Off]). The image is printed to fill the entire paper ([On]). |
| (The number of images per sheet varies depending on the printer.) | The number of images per sheet ([Pics/Sheet]) is selectable only when [Multi Print] is selected in Step 4. |

¹ The available settings for [Borderless] vary depending on the printer.

- If [Standard] is selected in Steps 5 and 6, the image is printed at the printer's standard settings.

7 Use $\triangleleft \triangleright$ to select an image.

8 Press \triangle to make a print reservation for the current image. Press ∇ to make the detailed printer settings for the current image.

To make the detailed printer settings

- ① Use $\triangle \nabla \triangleleft \triangleright$ to select the setting, and press the \odot button.

| Submenu 5 | Submenu 6 | Application |
|-----------|-----------------------------------|--|
| X | 0 to 10 | This selects the number of prints. |
| Date | With/ Without | Selecting [With] prints the images with the date. Selecting [Without] prints the images without the date. |
| File Name | With/ Without | Selecting [With] prints the file name on the image. Selecting [Without] does not print any file name on the image. |
| | (Proceeds to the setting screen.) | This selects a portion of the image for printing. |

To crop an image []

- ① Use the zoom lever to select the size of the cropping frame, use $\triangle \nabla \triangleleft \triangleright$ to move the frame, and then press the \odot button.

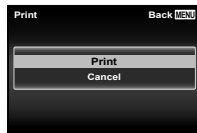
Cropping frame



- ② Use $\triangle \nabla$ to select [OK], and press the \odot button.

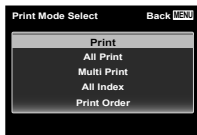
9 If necessary, repeat Steps 7 and 8 to select the image to be printed, make the detailed settings, and set [Single Print].

10 Press the \odot button.



11 Use Δ ∇ to select [Print], and press the OK button.

- Printing starts.
- When [Option Set] is selected in [All Print] mode, [Print Info] screen is displayed.
- When printing is finished, the [Print Mode Select] screen is displayed.



To cancel printing

- 1 Press the **MENU** button while [Do Not Remove USB Cable] is displayed.
- 2 Select [Cancel] using Δ ∇ and then press the OK button.

12 Press the MENU button.

13 When the message [Remove USB Cable] is displayed, disconnect the USB cable from the camera and printer.

Print Reservations

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.

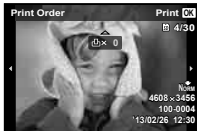
Single-frame print reservations

1 Display the setup menu.

- "Using the setup menu" (p. 32)

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

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



- 4** Use $\triangleleft \triangleright$ to select the image for print reservation. Use $\Delta \nabla$ to select the quantity. Press the OK button.

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






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

- 1** Follow Steps 1 and 2 in [\square] (p. 59).
- 2** Use $\Delta \nabla$ to select [\square], and press the OK button.
- 3** Follow Steps 5 and 6 in [\square].

Resetting all print reservation data

- 1** Follow Steps 1 and 2 in [\square] (p. 59).
- 2** Select either [\square] or [\square], and press the OK button.
- 3** Use $\Delta \nabla$ to select [Reset], and press the OK button.

Resetting the print reservation data for selected images

- 1** Follow Steps 1 and 2 in [] (p. 59).
- 2** Use $\Delta \nabla$ to select [], and press the  button.
- 3** Use $\Delta \nabla$ to select [Keep] and press the  button.
- 4** Use $\triangleleft \triangleright$ 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.

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 (commercially available)" (p. 4), "Charging the battery" (p. 5)
- 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/Internal memory

"An error message is displayed".

"Error message" (p. 64)

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 days¹, 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. 7)





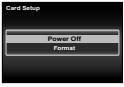
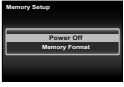
Miscellaneous








“The camera makes a noise when taking pictures”.

- The camera may make a noise even if no operation is performed. This is because, in the ready-to-shoot state, the camera is constantly performing auto focus and image stabilization operations.

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 problem Use Δ ∇ to select [Format], and press the \odot button. Next, use Δ ∇ to select [Yes], and press the \odot button. ² |
|  | Internal memory problem Use Δ ∇ to select [Memory Format], and press the \odot button. Next, use Δ ∇ to select [Yes], and press the \odot button. ² |

| Error message | Corrective action |
|--|---|
|  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. |
|  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. |

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

² All data will be erased.

| Error message | Corrective action |
|--|--|
|  Jammed | Printer problem Remove the jammed paper. |
| Settings Changed³ | 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 Print⁴ | 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**

After focusing on an object at the same distance as the subject, compose the shot, and take the picture.

Pressing the shutter button halfway (p. 10)

- **Set [AF Mode] (p. 34) to [Face/iESP]**
- **Taking a picture in [AF Tracking] mode (p. 34)**

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

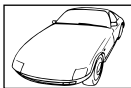
- **Taking a picture of a shadowy subject**

Using the AF illuminator makes focusing easier. [AF Illuminat.] (p. 35)

- **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.

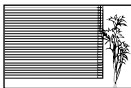
Subjects with low contrast



When extremely bright objects appear in the center of the monitor



Object with no vertical lines**



When objects are at different distances



Fast-moving object



The subject is not in the center of the frame





** 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. 35)**
The image pickup device¹⁾ shifts to correct for camera shake even if the ISO sensitivity is not increased. This function is also effective when taking pictures at a high zoom magnification.
¹⁾ A device that takes light received through the lens and converts it into electric signals.
- **Shooting movies using [IS Movie Mode] (p. 38)**
- **Select [ Sport] in the scene mode (p. 14)**
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**
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.
“ISO sensitivity” (p. 29)



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. 33)
[ Backlight HDR] (p. 14)


- **Taking pictures using [Face/IESP] (p. 34)**
Appropriate exposure is obtained for a face against backlight, and the face is brightened.

- **Taking pictures using [] for [ESP/] (p. 34)**

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] (p. 28) flash**
A subject against backlight is brightened.

- **Taking pictures of a white beach or snow scene**

Select [ Beach & Snow] in the scene mode (p. 14).

- **Taking pictures using exposure compensation (p. 28)**

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

WB

“Taking pictures with colors at the same shade as they appear”

- **Taking pictures by selecting white balance (p. 28)**

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. 35) to take pictures.

- **Taking pictures at a low ISO sensitivity**

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.

“ISO sensitivity” (p. 29)

Batteries



“Making batteries last longer”

- **Set [Power Save] (p. 50) to [On]**

Playback/Editing tips

Playback



“Playing images in the internal memory and card”

- **Remove the card and display the images in internal memory**
 - “Inserting and removing the battery and card (commercially available)” (p. 4)

“Viewing images with high picture quality on a high-definition TV”

- **Connect the camera to the TV using an HDMI cable (sold separately)**
 - “Playing back images on a TV ȳ [TV Out]” (p. 48)

Editing




“Erasing the sound recorded to a still image”

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

“Adding sound to still images [▶] [⏸]” (p. 40)

List of settings available in each shooting mode

For details on **SCN**, refer to "List of **SCN** settings" (p. 70).

| | P | IAUTO |  |  |  |  | MAGIC | M |
|--|----------|--------------|---|---|---|---|--------------|----------|
| Zoom | ✓ | ✓ | ✓ | ✓ | *1 | ✓ | ✓ | ✓ |
| Flash | ✓ | *1 | – | ✓ | – | *1 | ✓ | *1 |
| Self-timer | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Exposure Compensation | ✓ | – | ✓ | ✓ | ✓ | – | *1 | – |
| White balance | ✓ | – | ✓ | ✓ | ✓ | – | *1 | ✓ |
| ISO sensitivity | ✓ | – | – | ✓ | – | – | – | *1 |
| Drive | ✓ | – | *1 | – | – | – | – | *1 |
| Image Size | ✓ | ✓ | *1 | ✓ | – | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | – | – | – | ✓ | ✓ | ✓ |
| Reset | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Compression | ✓ | ✓ | *1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | – | *1 | ✓ | – | – | – | ✓ |
| Touch Shutter | ✓ | ✓ | *1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Mode | ✓ | – | – | – | *1 | – | – | ✓ |
| ESP/  | ✓ | – | *1 | ✓ | ✓ | – | ✓ | ✓ |
| Digital Zoom | ✓ | – | *1 | – | – | – | – | ✓ |
| Image Stabilizer | ✓ | ✓ | – | ✓ | ✓ | – | ✓ | ✓ |
| AF Illuminat. | ✓ | – | – | ✓ | – | ✓ | ✓ | ✓ |
| Rec View | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | *1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Icon Guide | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | *1 | ✓ | – | ✓ | ✓ | ✓ |
| Super-Res Zoom | ✓ | – | *1 | – | – | – | – | ✓ |

*1 Some functions cannot be set.

List of SCN settings

| Zoom | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ |
|-----------------------|----|----|----|----|----|----|----|----|----|----|
| Flash | *1 | *1 | – | – | *1 | *1 | *1 | *1 | – | – |
| Self-timer | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Exposure compensation | – | – | – | – | – | – | – | – | – | – |
| White balance | – | – | – | – | – | – | – | – | – | – |
| ISO sensitivity | – | – | – | – | – | – | – | – | – | – |
| Drive | – | – | – | – | – | ✓ | – | – | – | – |
| Image Size | ✓ | *1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reset | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | ✓ | ✓ | – | – | ✓ | ✓ | ✓ | ✓ | – |
| Touch Shutter | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Mode | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | – |
| ESP/ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ |
| Digital Zoom | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | – |
| Image Stabilizer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminat. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – |
| Rec View | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Icon Guide | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Super-Res Zoom | – | – | – | – | – | – | – | – | – | – |

*1 Some functions cannot be set.

| |  |  |  |  |  |  |  |
|--|---|---|---|---|---|---|---|
| Zoom | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Flash | *1 | – | *1 | – | – | – | – |
| Self-timer | *1 | *1 | *1 | ✓ | ✓ | *1 | *1 |
| Exposure compensation | – | – | – | – | – | ✓ | – |
| White balance | – | – | – | – | – | ✓ | – |
| ISO sensitivity | – | – | – | – | – | – | – |
| Drive | – | – | – | – | – | ✓ | – |
| Image Size | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reset | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – |
| Touch Shutter | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Mode | ✓ | ✓ | ✓ | – | – | – | ✓ |
| ESP/  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Digital Zoom | ✓ | ✓ | ✓ | ✓ | ✓ | – | – |
| Image Stabilizer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminat. | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Rec View | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Icon Guide | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Super-Res Zoom | – | – | – | – | – | – | – |

*1 Some functions cannot be set.

Appendix

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 wrung well.

Monitor

- Wipe gently with a soft cloth.

Lens

- 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 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, USB-AC 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.

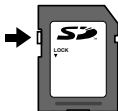
FlashAir/Eye-Fi card

- “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], or [All Erase] 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 pictures^{*1}

| Image Size | Compression | Number of storable pictures | |
|----------------------|-------------|-----------------------------|-------------------------|
| | | Internal memory | SD/SDHC/SDXC card (4GB) |
| 16M 4608×3456 | FINE | 4 | 460 |
| | NORM | 9 | 880 |
| 8M 3200×2400 | FINE | 9 | 900 |
| | NORM | 17 | 1,630 |
| 3M 1920×1440 | FINE | 28 | 2,740 |
| | NORM | 57 | 5,480 |
| VGA 640×480 | FINE | 209 | 20,110 |
| | NORM | 359 | 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 1920×1080 ^{*1} | 15 sec. | 16 sec. | 27 min. | 29 min. |
| 720 1280×720 ^{*1} | 28 sec. | 32 sec. | 51 min. | 57 min. |
| VGA 640×480 | 1 min. 10 sec. | 1 min. 33 sec. | 125 min. | 167 min. |
|  1280 1280×720 ^{*2} | — | 12 sec. | — | 21 min. |
|  330 432×324 ^{*2} | — | 18 sec. | — | 32 min. |
| 1080 60i 1920×1080 ^{*1} | 15 sec. | 16 sec. | 27 min. | 29 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. 25, 42), [Sel. Image] (p. 42), [All Erase] (p. 42), [Erase Group] (p. 42), [Memory Format]/[Format] (p. 44)

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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/msgs/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 4.5 to 108.0 mm, f3.0 to 6.9
(Equivalent to 25 to 600 mm on a 35 mm film)

Photometric system : Digital ESP metering, spot metering system

Shutter speed : 15 to 1/2000 sec.

Shooting range

Normal : 0.1 m (0.3 ft.) to ∞ (W), 0.4 m (1.3 ft.) to ∞ (T)

Super macro mode : 0.03 m (0.1 ft.) to ∞ (f=14.3 mm (fixed))

Monitor : 3.0" TFT color LCD display, touch panel, 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 to 40 °C (32 °F to 104 °F) (operation)/
-20 °C to 60 °C (-4 °F to 140 °F) (storage)

Humidity : 30 % to 90 % (operation)/10 % to 90 % (storage)

| | |
|---------------------|---|
| Power supply | : One Olympus lithium ion battery (LI-90B) or separately sold USB-AC adapter |
| Dimensions | : 112.1 mm (W) × 63.5 mm (H) × 42.4 mm (D) (4.4 × 2.5 × 1.7 in.) (excluding protrusions) |
| Weight | : 269 g (9.5 oz) (including battery and card) |

Lithium ion battery (LI-90B)

| | |
|------------------------------|--|
| Product type | : Lithium ion rechargeable battery |
| Model No. | : LI-90B |
| Standard voltage | : DC 3.6 V |
| Standard capacity | : 1270 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.

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HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

SAFETY PRECAUTIONS

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

-  An exclamation mark enclosed in a triangle alerts you to important operating and maintenance instructions in the documentation provided with the product.
-  **DANGER** If the product is used without observing the information given under this symbol, serious injury or death may result.
-  **WARNING** If the product is used without observing the information given under this symbol, injury or death may result.
-  **CAUTION** If the product is used without observing the information given under this symbol, minor personal injury, damage to the equipment, or loss of valuable data may result.

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

General Precautions

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

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

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

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

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

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

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.

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, infants, and animals such as pets away from the camera.**

- Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
 - Becoming entangled in the camera strap, causing strangulation.
 - Accidentally swallowing the battery, cards or other small parts.
 - Accidentally firing the flash into their own eyes or those of another child.
 - Accidentally being injured by the moving parts of the camera.

• **Do not look at the sun or strong lights with the camera.**

• **Do not use or store the camera in dusty or humid places.**

• **Do not cover the flash with a hand while firing.**

• **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. This may cause overheating, exploding, burning, electrical shocks, or malfunctions.

• **Do not leave the camera in places where it may be subject to extremely high temperatures.**

- Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire. Do not use the charger or USB-AC adapter if it is covered (such as a blanket). This could cause overheating, resulting in fire.

• **Handle the camera with care to avoid getting a low-temperature burn.**

- When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
 - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
 - In places subject to extremely cold temperatures, the temperature of the camera's body may be lower than the environmental temperature. If possible, wear gloves when handling the camera in cold temperatures.

• **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 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 remove the battery, then reinsert it and turn the camera 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 incinerate or heat batteries in microwaves, on hot plates, or in pressure vessels, etc.
- Never leave the camera on or near electromagnetic devices. This may cause overheating, burning, or exploding.
- Do not connect terminals with any metallic objects.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, keys, etc.
The short circuit may cause overheating, exploding, or burning, which burn or damage you.
- 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.

WARNING

- Do not wet batteries with fluid such as water or seawater.
- 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, has unusual odor, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera, and keep away from fire immediately.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Never subject batteries to strong shocks or continuous vibration by dropping or hitting.
This may cause exploding, overheating, or burning.

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.
Leaking and overheating may cause fire, injury, or malfunction.
- When storing the battery for a long period, select a cool location for storage.
- 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.
- 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).

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

For customers in North and South America

For customers in USA

Declaration of Conformity

Model Number: SH-50

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 the FCC rules. Operation is subject to the following two conditions:

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

For customers in CANADA

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

OLYMPUS WORLDWIDE LIMITED WARRANTY - IMAGING PRODUCTS

Olympus warrants that the enclosed Olympus® imaging product(s) and related Olympus® accessories (individually a "Product" and collectively the "Products") will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of purchase. If any Product proves to be defective within the one-year warranty period, the customer must return the defective Product to any of Olympus Service Centers, following the procedure set forth below (See "WHAT TO DO WHEN SERVICE IS NEEDED").

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

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

The customer is liable and shall pay for shipment of the Products to the Olympus Service Center. Olympus shall not be obligated to perform preventive maintenance, installation, deinstallation, or maintenance. Olympus reserves the right to (i) use reconditioned, refurbished, and/or serviceable used parts (that meet Olympus's quality assurance standards) for warranty or any other repairs and (ii) make any internal or external design and/or feature changes on or to its products without any liability to incorporate such changes on or to the Products.

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY

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

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

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

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

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

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

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

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

This limited warranty is the complete and exclusive statement of warranty which Olympus agrees to provide with respect to the Products and it shall supersede all prior and contemporaneous oral or written agreements, understandings, proposals, and communications pertaining to the subject matter hereof. This limited warranty is exclusively for the benefit of the original customer and cannot be transferred or assigned.

WHAT TO DO WHEN SERVICE IS NEEDED

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

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

Package the Product carefully using ample padding material to prevent damage in transit and either deliver it to the Authorized Olympus Dealer that sold you the Product or ship it postage prepaid and insured to any of our Olympus Service Centers. When returning Products for service, your package should include the following:

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

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

WHERE TO SEND PRODUCT FOR SERVICE

See "WORLDWIDE WARRANTY" for the nearest service center.

INTERNATIONAL WARRANTY SERVICE

International warranty service is available under this warranty.

For customers in Europe



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



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), under the applicable national warranty period and has been purchased from an authorized Olympus distributor within the business area of Olympus Europa Holding GmbH as stipulated on the website: <http://www.olympus.com> this product will be repaired, or at Olympus's option replaced, free of charge. To claim under this warranty the customer must take the product before the end of the applicable national warranty period to the dealer where the product was purchased or any other Olympus service station within the business area of Olympus Europa Holding GmbH as stipulated on the website: <http://www.olympus.com>. During the one year period of the World Wide Guarantee the customer may turn the product in at any Olympus service station. Please notice that not in all countries such Olympus service station exists.
- 2 The customer shall transport the product to the dealer or Olympus authorized service station at his own risk and shall be responsible for any costs incurred in transporting the product.

Provisions of Guarantee

- 1 "OLYMPUS IMAGING CORP., 2951 Ishikawa-machi, Hachioji-shi, Tokyo 192-8507, Japan grants a one year World Wide Guarantee. This worldwide Guarantee must be presented at an Olympus authorized repair service station before any repair can be made under conditions of this Guarantee. This Guarantee is valid only if the Guarantee Certificate and proof of purchase are presented at the Olympus repair service station. Please note that this Guarantee is in addition to and does not affect the customer's legal warranty rights under the applicable national legislation governing the sale of consumer goods mentioned above.
- 2 This Guarantee does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the Guarantee period referred to above.
 - a. Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Handling Care or other sections of the instructions, etc.)
 - b. Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.
 - c. Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
 - d. Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.

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

Notes regarding Guarantee maintenance

- 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 by 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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OLYMPUS IMAGING AMERICA INC.

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Technical Support (USA)

24/7 online automated help:

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

Phone customer support: Tel. 1-888-553-4448 (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 HOLDING GMBH

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Goods delivery: Modul H, Willy-Brandt-Str. 36, 52353 Düren, Germany
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, Denmark, Finland, France, Germany, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom
* Please note some (mobile) phone services providers do not permit access or request an additional prefix to +800 numbers.

For all European Countries not listed and in case that you can't get connected to the above mentioned number, please make use of the following
CHARGED NUMBERS: **+49 180 5 - 67 10 83** or **+49 40 - 237 73 4899**

Our Technical Customer Support is available from 9 am to 6 pm MET (Monday to Friday)

OLYMPUS IMAGING CHINA CO.,LTD.

Customer Support: 400-650-0303 Home page: <http://www.olympus.com.cn>

Customer Service Center:

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