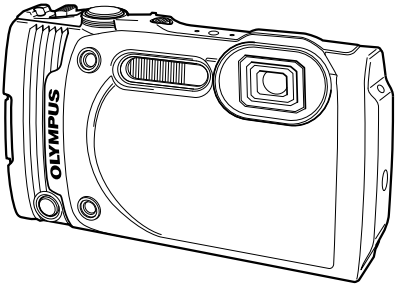
OLYMPUS®

DIGITAL CAMERA

# STYLUS TG-870

# Instruction Manual




- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.

# Unpack the box contents

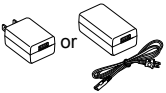
The following items are included with the camera.
If anything is missing or damaged, contact the dealer from whom you purchased the camera.

Digital camera

Strap

Lithium Ion Battery (LI-50B)

OLYMPUS Setup CD-ROM

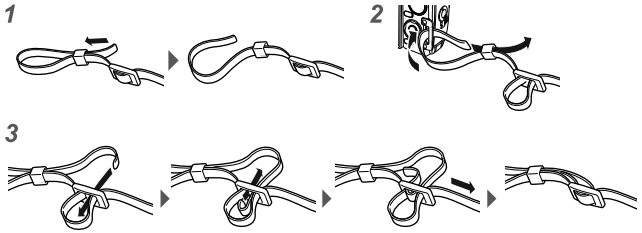



USB-AC adapter (F-5AC)

USB cable (CB-USB8)

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

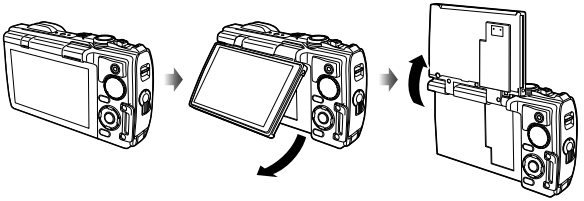
## Attaching the camera strap



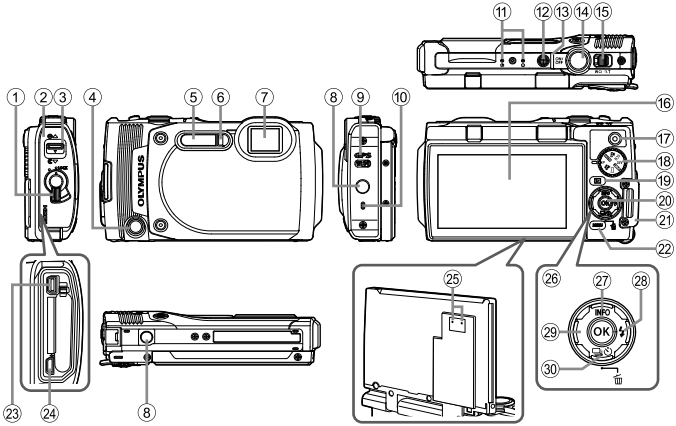

- Pull the strap tight so that it does not come loose.

## Using the monitor

You can adjust the angle of the monitor.



# Names of parts




① Battery/card compartment/ connector cover lock
② Battery/card compartment/ connector cover
③ Battery/card compartment/ connector cover latch
④ Face button
⑤ Flash
⑥ Self-timer lamp/LED Illuminator/ AF illuminator
⑦ Lens
⑧ Tripod socket
⑨ GPS antenna
⑩ Speaker
⑪ Stereo microphone
⑫ **ON/OFF** button
⑬ Indicator lamp
⑭ Shutter button
⑮ Zoom lever
⑯ Monitor
⑰ ⊙ (Movie) button
⑱ Mode dial
⑲ ▶ (Playback) button
⑳ OK button
㉑ Strap eyelet
㉒ **MENU** / Wi-Fi button
㉓ Multi-connector
㉔ HDMI micro connector
㉕ Pressure adjustment hole*
㉖ Arrow pad
㉗ △ (Up) / **INFO** (Information display) button
㉘ ▷ (Right) / ⚡ (Flash) button
㉙ ◁ (Left) button
㉚ ▽ (Down) / (Sequential shooting/Self-timer) / 🗑 (Erase) button

* Do not stick pointed objects like a pin into the hole.

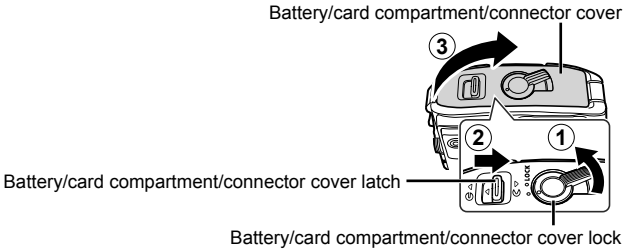
• △▽◁▷ instruct to press the up/down/left/right arrow pad.

# Preparations for shooting

## Inserting and removing the battery and card

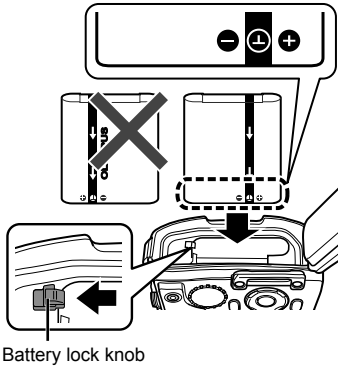
**1** Follow Steps ①, ② and ③ to open the battery/card compartment/connector cover.

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



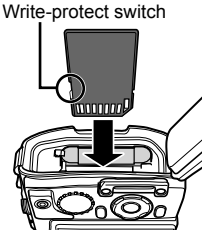

**2** Insert the battery while sliding the battery lock knob in the direction of the arrow.

- Insert the battery as illustrated with the ⊖ mark toward the battery lock knob.
- If you insert the battery in the wrong direction, the camera is not turned on. Be sure to insert it in the correct direction.
- 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.

- Do not touch the metallic parts of the card directly.
- Always use the specified cards with this camera.



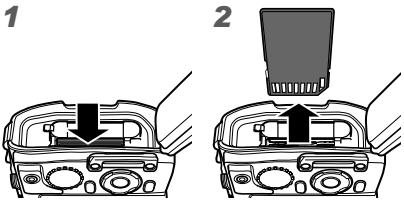

**Cards compatible with this camera**

SD/SDHC/SDXC/Eye-Fi (with Wireless LAN function) card (commercially available) (maximum capacity: 128 GB) (for compatibility card details, visit the Olympus website.)

- This camera can be used without a card by storing images in its internal memory. ☞ "Checking the image saving location" (P. 100)

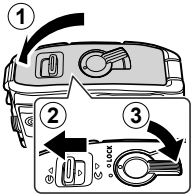
**To remove the card**

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




## 4 Follow Steps ①, ② and ③ to close battery/card compartment/connector cover.

- Except when using the connector, be sure to close the battery/card compartment/connector cover.

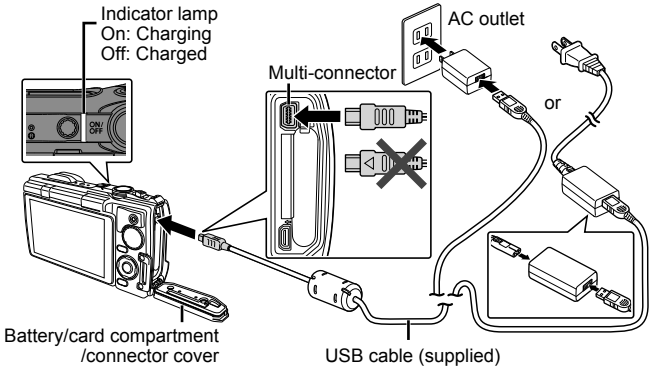


# Charging the battery

**1** Check that the battery is in the camera, and connect the USB cable and USB-AC adapter.

- The battery is not fully charged at shipment. Before use, be sure to charge the battery until the indicator lamp turns off (up to 2 hours).

**Connecting the camera**



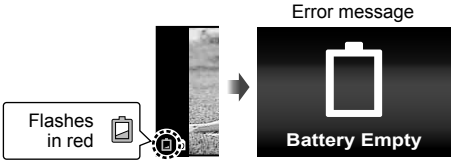

For charging the battery abroad, see “Using your charger and USB-AC adapter abroad” (P. 98).

- Never use any cable other than supplied or Olympus-designated USB cable. This may cause smoking or burning.
- Be sure to unplug the USB-AC adapter when charging is complete or shooting or playback ends.
- For details on the battery, see “SAFETY PRECAUTIONS” (P. 111). For details on the USB-AC adapter, see “SAFETY PRECAUTIONS” (P. 111).

- If the indicator lamp does not light, check the USB cable and USB-AC adapter connections.
- If “No Connection” is displayed on the back monitor, disconnect the USB cable and set [Storage] in [USB Connection] (P. 60) before connecting the cable again.

### When to charge the batteries

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



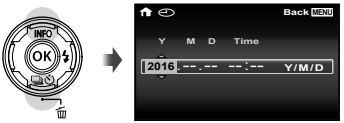
# Turning on the camera and making the initial settings

When you turn on the camera for the first time, a screen appears enabling to set the language for the menus and messages displayed in the monitor, and the date and time.
To change the selected date and time, see “Setting the date and time [⏲]” (P. 63).

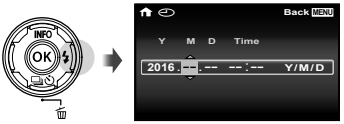
**1** Press the **ON/OFF** button to turn on the camera, press △▽◁▷ of the arrow pad to select your language and press the (OK) button.

- In the case that the power is not turned on when you press the **ON/OFF** button, check the direction of the battery. ☞ “Inserting and removing the battery and card” (P. 5)

**2** Press △▽ of the arrow pad to select the year for [Y].




**3** Press ▷ of the arrow pad to save the setting for [Y].




**4** As in Steps 2 and 3, 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 (OK) button.

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

**5** Use ◁▷ (arrow pad) to select the time zone and then press the (OK) button.

- Use △▽ (arrow pad) to turn daylight saving time ([Summer]) on or off.

# Using basic functions

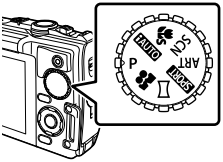
## Taking photographs

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

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

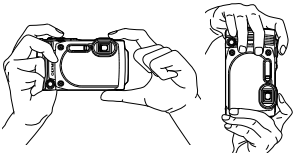
**2** Set the mode dial to **P**.

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




**3** Frame the shot.

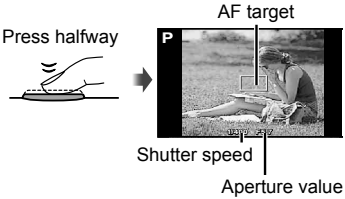
- When holding the camera, take care not to cover the flash, microphone or other important parts with your fingers, etc.



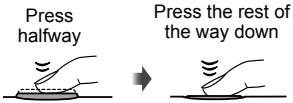
**4** Press the shutter button halfway down to focus.

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

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




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



### Difficulty of seeing the screen (monitor boost)

When the screen is difficult to see in bright environment, press and hold ⓞⓚ until the screen becomes bright enough to be seen. The screen gets bright for approx. 10 seconds.

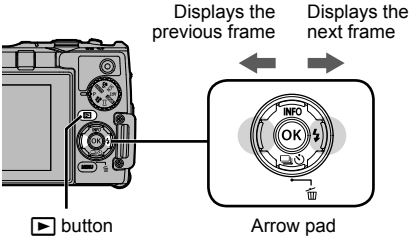
- Any operation such as pressing **MENU** button and turning the mode dial cancels the monitor boost.

## Viewing photographs (Playing back images)

Turn on the camera.

Press the ▶ button.

- Your most recent photograph is displayed.
- Press ◁▷ (arrow pad) to select an image.



Still image

**Index display**

- In single-frame playback, press the zoom lever to the W side for Index playback.
- Use △▽◁▷ (arrow pad) to move the cursor.
- Press the zoom lever to the T side for single-frame playback.

### Close-up playback

- In single-frame playback, press the zoom lever to the T side to zoom in up to 10×; press the W side to zoom out. Press the (OK) button to return to single-frame playback.
- Press △▽◁▷ (arrow pad) to scroll an image to the direction of the button you pressed.

## Erasing images during playback

**1** Display the image you want to erase and press 🗑.

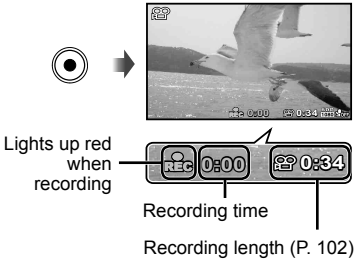
- To erase a movie, select the movie to erase and press 🗑.

**2** Press △▽ (arrow pad) to select [Erase], and press the (OK) button.

- Grouped images are erased as a group (P. 15).
- Multiple images or all images can be erased at a time (P. 57).

# Recording movies

**1** Press the ◉ (movie) button to start recording.




- The movie is shot in the set shooting mode. Note that the shooting mode effects may not be obtained for some shooting modes.
- Sound is also recorded.
- When using a camera with a CMOS image sensor, moving objects may appear distorted due to the rolling shutter phenomenon.
  This is a physical phenomenon whereby distortion occurs in the filmed image when shooting a fast-moving subject or due to camera shaking. In particular, this phenomenon becomes more noticeable when using a long focal length.
- You can change the function of ◉ (movie) button to another function.
  ☞ [Button Function] (P. 66)

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

- When movies are recorded in SCN (scene) mode using the [LIVE COMP Live Composite], [Hand-Held Starlight], [Night Scene], [Night+Portrait], and [Fireworks] options, image settings such as tone range are optimized for night scenes.

# Movie playback

Select a movie, and press the (OK) button.

- Press the zoom lever to the T side for an index display of the movie. Use △▽◁▷ (arrow pad) to select the frame to start playback.

Movie

During 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 ▷ (arrow pad) to fast forward. Press ▷ (arrow pad) again to increase the fast forward speed. |
| **Rewind** | Press ◁ (arrow pad) to rewind. Press ◁ (arrow pad) again to increase the rewind speed. |
| **Adjusting the volume** | Use △▽ (arrow pad) to adjust the volume. |

## Operations while playback is paused

Elapsed time/Total shooting time

During pause

| | |
|---|---|
| **Jump** | Press △▽ (arrow pad) to jump to the previous/next index. |
| **Advancing and rewinding one frame at a time** | Press ▷ or ◁ (arrow pad) to advance or rewind one frame at a time. Hold ▷ or ◁ (arrow pad) pressed for continuous advance or rewind. |
| **Resuming playback** | Press the (OK) button to resume playback. |

- During pause, press the zoom lever to the W side for the split index display.

## 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.

# Playing back panorama and grouped images

## Playing back panorama images

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

**1** Select a panorama image during playback.

**2** Press the (OK) button.

**To control panorama image playback**

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

**Pause:** Press the (OK) button.

**Control while paused**

Press △ ▽ ◁▷ (arrow pad) to scroll the image in the direction of the pressed button.

Press the zoom lever to enlarge/shrink the image.

Press the (OK) button to restart scrolling.

Viewing area

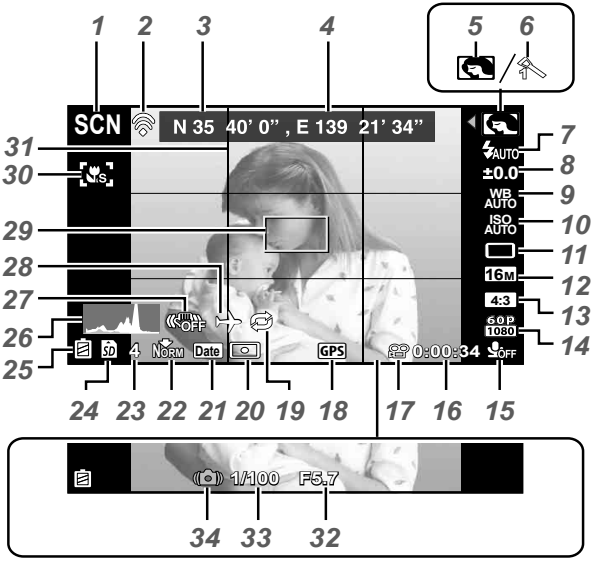
## Playing back grouped images

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

| | |
|---|---|
| T side | Expands.<br>• Expand to view the frames of a group in index view.<br>• If you want to delete images from the grouped images, you can expand the group and delete the images individually.<br> <br>Sequential images frame<br>• Select the image and press the (OK) button to display the images respectively.<br>• Use ◁▷ (arrow pad) to view the previous/next frame. |
| (OK) **button** | Plays back the grouped images in sequence automatically or pauses playback. |

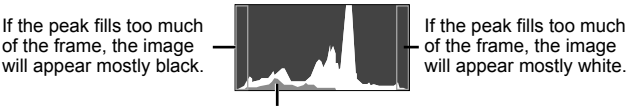
# Monitor display

## Shooting screen displays




When the shutter button is pressed halfway down

### Reading a histogram



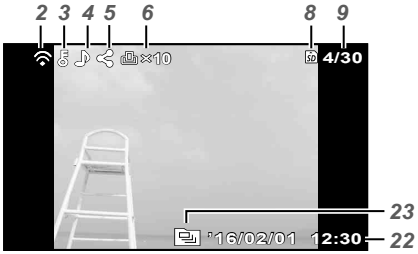

### Switching the displays

The displays change in the order of Normal → Detailed → No info. each time △ (arrow pad) is pressed.

| No. | Name | Normal | Detailed | No info. |
|---|---|---|---|---|
| 1 | Shooting mode | ✓ | ✓ | – |
| 2 | Connection to Smartphone | ✓ | ✓ | ✓ |
| 3 | Latitude | ✓ | ✓ | – |
| 4 | Longitude | ✓ | ✓ | – |
| 5 | Sub mode | ✓ | ✓ | – |
| 6 | Picture Mode | ✓ | ✓ | – |
| 7 | Flash | ✓ | ✓ | – |
| 8 | Exposure compensation | ✓ | ✓ | – |
| 9 | White balance | ✓ | ✓ | – |
| 10 | ISO sensitivity | ✓ | ✓ | – |
| 11 | □/⏱ | ✓ | ✓ | – |
| 12 | Image size (still images) | ✓ | ✓ | – |
| 13 | Aspect | ✓ | ✓ | – |
| 14 | Image size (movies) | ✓ | ✓ | – |
| 15 | Recording with sound/ wind noise reduction | ✓ | ✓ | – |
| 16 | Movie recording length | ✓ | ✓ | – |
| 17 | Movie recording icon | ✓ | ✓ | – |
| 18 | GPS icon | ✓ | ✓ | – |
| 19 | Repeat Rec | ✓ | ✓ | – |
| 20 | Metering | – | ✓ | – |
| 21 | Date stamp | ✓ | ✓ | – |
| 22 | Compression | ✓ | ✓ | – |
| 23 | Number of storable still pictures | ✓ | ✓ | – |
| 24 | Current memory | ✓ | ✓ | – |
| 25 | Battery check | ✓ | ✓ | – |
| 26 | Histogram | – | ✓ | – |
| 27 | Image stabilization | – | ✓ | – |
| 28 | World time | – | ✓ | – |
| 29 | AF target mark | ✓ | ✓ | ✓ |
| 30 | Super Macro | ✓ | ✓ | – |
| 31 | Grid Guide | – | ✓ | – |
| 32 | Aperture value | ✓ | ✓ | ✓ |
| 33 | Shutter speed | ✓ | ✓ | ✓ |
| 34 | Camera shake warning | ✓ | ✓ | ✓ |

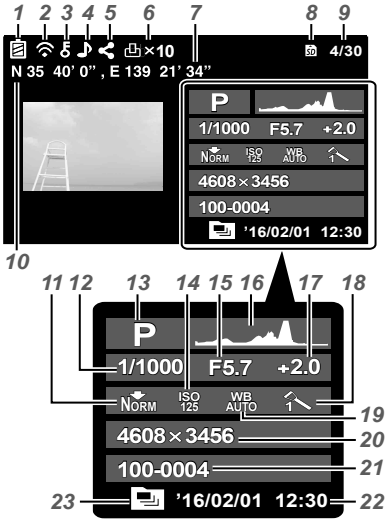
## Playback mode display

• Normal

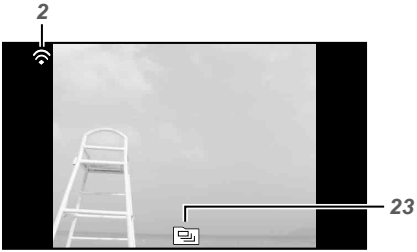



Still image

• Detailed



• No information




## Switching the displays

The displays change in the order of Normal → Detailed → No info. each time △ (arrow pad) is pressed.

| No. | Name | Normal | Detailed | No info. |
|---|---|---|---|---|
| 1 | Battery check | – | ✓ | – |
| 2 | Eye-Fi transfer data/Wi-Fi | ✓ | ✓ | ✓ |
| 3 | Protect | ✓ | ✓ | – |
| 4 | Adding sound | ✓ | ✓ | – |
| 5 | Share Order | ✓ | ✓ | – |
| 6 | Print reservation/number of prints | ✓ | ✓ | – |
| 7 | Longitude | – | ✓ | – |
| 8 | Current memory | ✓ | ✓ | – |
| 9 | Frame number/ total number of images | ✓ | ✓ | – |
| 10 | Direction information | – | ✓ | – |
| 11 | Compression/Image size (movies) | – | ✓ | – |
| 12 | Shutter speed | – | ✓ | – |
| 13 | Shooting mode | – | ✓ | – |
| 14 | ISO sensitivity | – | ✓ | – |
| 15 | Aperture value | – | ✓ | – |
| 16 | Histogram | – | ✓ | – |
| 17 | Exposure compensation | – | ✓ | – |
| 18 | Picture mode/sub mode | – | ✓ | – |
| 19 | White balance | – | ✓ | – |
| 20 | Image size (still images) | – | ✓ | – |
| 21 | File name | – | ✓ | – |
| 22 | Recording date and time | ✓ | ✓ | – |
| 23 | Grouped images | ✓ | ✓ | ✓ |

# Shooting using basic functions

## Using the shooting modes

### Selecting shooting mode

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

- After selecting SCN, ART, SPORT, ⌶, or 🎥, select the sub mode.

### List of shooting mode

- The default settings of the function are highlighted in .

| Shooting mode | Sub mode | |
|---|---|---|
| P (Program mode) | – | P. 10 |
| iAUTO (iAUTO mode) | – | P. 21 |
| (Super Macro mode) | – | P. 21 |
| SCN (Scene mode) | Portrait/ e-Portrait/ Landscape/ Interval Shooting/ Live Composite/ Hand-Held Starlight/ Night Scene/ Night+Portrait/ Sport/ Indoor/ Sunset/ Fireworks/ Cuisine/ Documents/ Beach & Snow/ Snapshot/ Wide1/ Wide2/ Macro/ Backlight HDR | P. 22 |
| ART (Art Filter) | Pop Art/Soft Focus/Pale&Light Color/ Light Tone/Grainy Film/Pin Hole/Diorama/ Cross Process/Gentle Sepia/Dramatic Tone/ Key Line/Watercolor/Vintage | P. 23 |
| SPORT (Sportcam mode) | 60p 60p Movie/HS High-Speed Movie/ Time Lapse Movie/ Sportburst | P. 27 |

| Shooting mode | Sub mode | |
|---|---|---|
| (Panorama mode) | Auto/Manual | P. 31 |
| (Self Portrait mode) | Self Portrait/ e-Portrait/ Hand-Held Starlight/ Backlight HDR/ Snapshot | P. 29 |

- “List of settings available in each shooting mode” (P. 106), “List of **SCN** settings” (P. 107), “List of **ART** settings” (P. 109), “List of settings” (P. 110)
- In certain shooting modes, the camera may take a few moments for image processing after taking a picture.

## iAUTO (iAUTO mode)

A full auto mode in which the camera automatically optimizes settings for the current scene. The camera does all the work, which is convenient for beginners.

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

**2** Press the shutter button halfway down to focus.

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

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

## (Super Macro mode)

Images can be taken from up to 1 cm away from the subject.

**1** Rotate the mode dial to .

**2** Press the shutter button halfway down to focus.

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

- You can press the OK button to fix the focus distance (AF lock). Press the OK button again to cancel the AF lock.

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

- In mode, the zoom range is limited.

## SCN (scene mode)

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

| Sub mode | Application |
|---|---|
| Portrait | Suitable for portrait shooting. |
| e-Portrait | Smoothes out skin tones and texture. This mode is suitable when viewing images on a high-definition TV. |
| Landscape | Suitable for landscape shooting. |
| Interval Shooting | Automatically shoot successive images according to set [Start Waiting Time], [Number of Frames], and [Interval Length]. |
| Live Composite | The camera secured with a tripod automatically shoots multiple images, takes newly bright areas only, and composites them into a single image.<br>With normal long exposure, an image of light trace such as star trails with bright buildings tends to get too bright. You can capture them without over exposure while checking the progress. |
| Hand-Held Starlight | Reduces blur when shooting night scenes without a tripod. The flash can be used. |
| Night Scene | Suitable for tripod shooting of night scenes. |
| Night+Portrait | Suitable for portrait shooting against a background of night view. |
| Sport | Suitable for fast action shooting. |
| Indoor | Suitable for shooting portraits indoors like party scene. |
| Sunset | Suitable for shooting the sunset. |
| Fireworks | Suitable for shooting fireworks at night. |
| Cuisine | Suitable for shooting cuisine. |
| Documents | Suitable for shooting paper documents or time tables. |
| Beach & Snow | Suitable for shooting at snow-capped mountains, seascapes in the sun, and other whitish scenes. |
| Snapshot | Suitable for shooting seaside and pool portraits. |
| Wide1 | Suitable for shooting underwater. |
| Wide2 | Suitable for shooting underwater.<br>The focus distance is fixed to approximately 5 m. |
| Macro | Suitable for shooting close-up view underwater. |
| Backlight HDR | Suitable for contrasting scenes. This mode captures multiple images and merges them into one, properly exposed image. |

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

**2** Use ◁▷ (arrow pad) to select a sub mode and press the (OK) button at the end.

- To choose a different scene, press ◁ (arrow pad) and choose a sub mode.

- In [e-Portrait] mode, two images are recorded: an unmodified image and a second image to which [e-Portrait] effects have been applied.

### To take underwater photos

The [ Snapshot], [ Wide1], [ Wide2], [ Macro] submode is recommended for shooting underwater. When set to [ Wide2], the focus distance is automatically fixed to approx. 5.0 m (16.4 ft.).

### To lock the focus distance for underwater shoots (AF lock)

In the [ Snapshot], [ Wide1], [ Macro] submode, you can press the (OK) button to fix the focus distance (AF lock).
Press the (OK) button again to cancel the AF lock.

AF lock mark

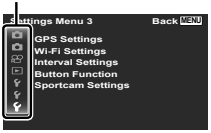
## Interval Shooting

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

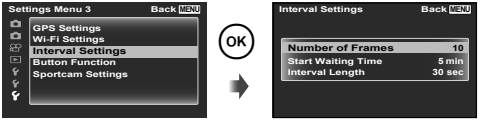
**Customizing the setting**

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

**2** Use ◁ (arrow pad) to move to the page tab, and use △ ▽ to select Setting menu 3 and then press (OK).




**3** Use △ ▽ (arrow pad) to select [Interval Setting] and press (OK). Then press △ ▽ (arrow pad) to select an item and press (OK).




**4** Use △ ▽ (arrow pad) to highlight an option and press (OK) to select.

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

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

**To cancel the interval shooting**

Press the **MENU** button.

## LIVE COMP Live Composite

Take photos using the live composite option in SCN (scene) mode.

**1** Press the shutter button halfway down to focus.

- The camera was unable to focus if the AF target mark flashes red. While the AF target mark is flashing, press the shutter button halfway, and without releasing this button, then press the OK button. The camera focuses at infinity.

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

- The camera configures the proper settings automatically and starts shooting.
- After pressing the shutter button, there is a time lag until shooting starts.
- A combined panorama image is displayed per certain period of time.

**3** Press the shutter button again to stop shooting.

- The recording length in one shooting is up to three hours.

## ART (art filters)

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

| Sub mode | Application |
|---|---|
| Pop Art | Enhances the color and atmosphere of an image more brightly and vividly. |
| Soft Focus | Expresses an ethereal atmosphere with a soft tone and makes an image dreamy. |
| Pale&Light Color | Expresses a comfortable floating feeling by making an image more pale and light. |
| Light Tone | Creates a high-quality image by softening both shadows and highlights. |
| Grainy Film | Expresses the strength and roughness of black and white. |
| Pin Hole | Expresses the tunnel effect like that obtained from an old fashioned camera or a toy camera by reducing the peripheral brightness. |
| Diorama | Expresses an image shooting a surreal miniature world with enhancing the saturation and contrast and blurring an out-of-focus area of an image. |
| Cross Process | Creates an image that expresses a surreal atmosphere. |
| Gentle Sepia | Creates a high-quality image by drawing out shadows and softening the overall image. |
| Dramatic Tone | Enhances the local contrast of an image and provide an image that a difference of brightness and darkness is emphasized. |
| Key Line | Creates an image that emphasizes edges and adds an illustrative style. |
| Watercolor | Creates a soft, bright image by removing dark areas, blending pale colors on a white canvas, and further softening contours. |
| Vintage | Expresses an everyday shot in a nostalgic, vintage tone using printed film discoloration and fading. |

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

**2** Use ◁▷ (arrow pad) to select a sub mode and press the (OK) button at the end.

- Press the (OK) button once again to display the sub mode selection screen.

## SPORT (Sportcam mode)

By selecting a sub mode, you can shoot various wide-angle movies and a series of pictures (sequential or interval shooting).

| Sub mode 1 | Sub mode 2 | Application |
|---|---|---|
| 60p 60p Movie | 1080 60p (1920×1080)/ 720 60p (1280×720)/ 480 60p (854×480) | Shoots a smooth movie at 60 frames/ second. |
| HS High-Speed Movie | HS120 (854×480)/ HS240 (640×360) | Shoots a fast-moving subject and play back in slow motion.<br>In this slow motion movie, you can watch motion that is hardly visible to the naked eye. |
| Time Lapse Movie | 0.5s/1s/3s/ 6s/12s/30s | Generate a movie by shooting successive images at longer interval.<br>The movie, compressed a long time scene into a short movie, clarifies the change of the situation.<br>The recording length is up to 24 hours. |
| Sportburst | 0.05s*1/0.4s*2/ 1s*3/2s*3/5s/ 10s/30s/60s | Setting a shooting interval in the function menu allows you to shoot a series of frames (sequential or interval shooting).<br>You can shoot up to 200 frames ([0.05s]: up to 60 frames). |

*1 Shoots sequentially by the setting of [Hi 1] (P. 35).

*2 Shoots sequentially by the setting of [1] (P. 35).

*3 The interval may be longer depending on the shooting condition.

- Only when the shooting mode is set to SPORT, [OFF] also appears the in self timer ([2], [2], and [C]) (P. 36).

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

**2** Use ◁ (arrow pad) to select a sub mode 1, and use ▽ to move to the sub mode 2. Use ◁▷ (arrow pad) to select an item and press (OK).

**3** Press the shutter button to start shooting.

- For [60p], [HS], and [ ], the shutter button is also available to shoot movies unlike normal movie recording.
- In [ ], press the shutter button to start shooting a series of frames.
- During shooting, the indicator lamp flashes.
- 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.

**4** Press the shutter button again to stop shooting.

- When the camera exceeds the limit for continuous shooting, it automatically stops shooting. ☞ "Number of storable pictures (still images)/Recording length (movies) in the internal memory and cards" (P. 101)
  Set the [Repeat Rec] (P. 67) to [Yes] to automatically extend the shooting time.

- Pressing (OK) in the shooting screen fixes the focus distance (AF lock). Press (OK) again to cancel the lock.
- After you assigned [ Shoot Photo] in [Button Function] (P. 66), pressing the assigned button takes pictures by an equivalent setting to SCN [ ].
- To shoot a normal movie in [ ], assign [ Rec. Movie] to the button in advance.

## (Self Portrait mode)

By selecting a sub mode according to the subject or the scene, you can shoot yourself with a proper setting.

| Sub mode | Application |
|---|---|
| Self Portrait | Suitable for shooting self portraits. |
| e-Portrait | Smoothes out skin tones and texture in self portraits. This mode is suitable when viewing images on a high-definition TV.<br>The two images, before/after adjustment, are saved at once. |
| Hand-Held Starlight | Suitable for shooting self portraits at night scene. The flash can be used. |
| Backlight HDR | Suitable for shooting self portraits in contrasting scenes. This mode captures multiple images and merges them into one, properly exposed image. |
| Snapshot | Suitable for shooting seaside and pool self portraits. |

**1** Rotate the mode dial to .

**2** Use ◁▷ (arrow pad) to select a sub mode and press the OK button at the end.

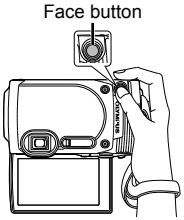
- Press the OK button once again to display the sub mode selection screen.

**3** Rotate the monitor 180 degrees.

- According to the directions of the camera and the monitor, you can invert the screen view and the arrow pad usage. ☞ [Disp. Inversion Set.] (P. 61)

**4** Hold the camera with the lens facing toward you.

- You can hold the camera upside down with your right hand only. Be sure to pass your wrist through the strap, and then firmly grip the camera to prevent the camera from dropping.




**5** Press the face button halfway down to focus.

**6** Press the face button all the way down to shoot.

- The shutter button is also available for shooting.
- When [ Shoot Photo] (P. 66) is not assigned to the face button, you cannot shoot pictures with the face button.

## ⌘ (Panorama mode)

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

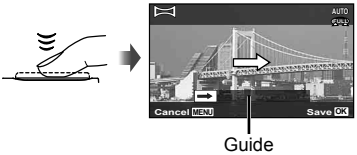
**1** Rotate the mode dial to ⌘.

**2** Press the Ⓚ button to go to the function menu. Use ◁▷ (arrow pad) to select a sub mode and press the Ⓚ button at the end.

| Sub mode | 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 press ▽ (arrow pad). Use ◁▷ (arrow pad) to select the angle of view (STD:180°, FULL:360°) and then press the Ⓚ 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 Ⓚ 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 △▽◁▷ (arrow pad) to specify at which edge the next picture is to be connected, and then press the (OK) button.

② Press the shutter button to take the first frame.

Direction for combining frames

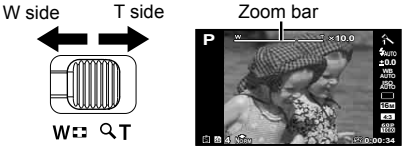
③ Compose the next shot so that the edge of the first frame displayed faintly on the screen overlaps the subject of the second frame, and press the shutter button.

- To combine only two frames, press the (OK) button.

④ Repeat step ③ to take a third frame. The camera automatically combines the frames into a single panorama image.

# Using the zoom

Zoom in to photograph distant objects or zoom out to increase the area visible in the frame. Zoom can be adjusted using the zoom lever.




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

*1 For the super resolution zoom and the details, refer to (P. 50).

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

# Using shooting options (Set by direct button)

Frequently used functions are assigned to ▷ △ ▽ (arrow pad). Just by pressing the button, you can select the assigned function directly.
Some items are not available in some shooting modes. ☞ “List of settings available in each shooting mode” (P. 106)

## Flash

You can use a flash when shooting.

**1** Press the ⚡ button to display options.

**2** Use ◁▷ (arrow pad) to choose a flash mode and press (OK).

| | | |
|---|---|---|
| ⚡AUTO | **Auto flash** | The flash fires automatically in low light or backlight conditions. |
| 👁 | **Red-eye reduction flash** | This function allows you to reduce the red-eye phenomenon. |
| ⚡ | **Fill-in flash** | The flash fires regardless of the light conditions. |
| ⊘ | **Flash off** | The flash does not fire. |
| ⚡RC | **Remote Control** | The dedicated underwater strobe or the Olympus wireless RC flash is used to take pictures. For details, see “Using a dedicated underwater strobe” (P. 103). |
| ⚡SLV | **Slave** | The commercially-available slave flash that is synchronized with the camera flash is used for taking pictures. The flash intensity setting can be adjusted. |
| 🔦 | **LED On** | The LED turns on when a picture is taken. This is effective for taking close up pictures. |

- In [👁](Red-eye reduction flash), after the pre-flashes, it takes about 1 second before the shutter is released. Do not move the camera until shooting is complete.
- [👁](Red-eye reduction flash) may not work effectively under some shooting conditions.
- When [Remote Flash] (P. 47) is set to [Off], [⚡RC] and [⚡SLV] cannot be selected.
- Some items are not available in some shooting modes.

## Single/Sequential

Hold the shutter-release button all the way down to take a series of photographs.

**1** Press the button to display the direct menu.

**2** Select an option using ◁▷ (arrow pad) and press OK.

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

*1 Taken pictures are displayed as a group.

*2 The number of recording pixels are limited.

- During sequential shooting, focus, exposure, and white balance are locked at the first frame.
  All information about the vertical/horizontal orientation, and GPS information are the same as the first frame.
- During sequential shooting, if the battery check blinks due to low battery, the camera stops shooting and starts saving the pictures you have taken on the card. The camera may not save all of the pictures depending on how much battery power remains.

## Self timer

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

**1** Press the ⊡/⏲ button to display the direct menu.

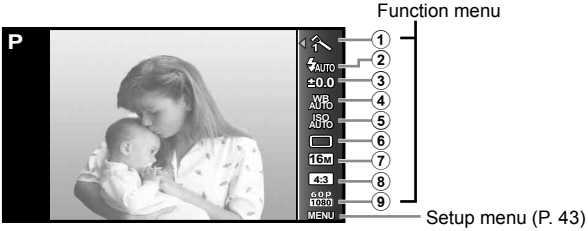
**2** Select [⏲12], [⏲2] or [⏲C] using ◁▷ (arrow pad) and press the ⓞⓚ button.

| | | |
|---|---|---|
| ⏲12 | **Self-timer 12 SEC** | Press the shutter button halfway to focus, the rest of the way down to start the timer. First, the self-timer lamp lights up for approximately 10 seconds, then it blinks for approximately 2 seconds and the picture is taken. |
| ⏲2 | **Self-timer 2 SEC** | Press the shutter button halfway to focus, the rest of the way down to start the timer. The self-timer lamp blinks for approximately 2 seconds, and then the picture is taken. |
| ⏲C | **Custom Self-timer** | After selecting this mode, press the **MENU** button to set "⏲ Timer sec (the time from pressing the shutter button until the picture is taken), the number of frames, and the interval time". Pictures are taken by these setting.<br>When several images are shot, the interval from the second shot may be longer. The camera starts to count the interval after finishing process of the shot image. The longer it takes to process an image, the later the next shooting starts. |

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

# Using shooting options (Set by function menu)

Some items are not available in some shooting modes. ☞ “List of settings available in each shooting mode” (P. 106)



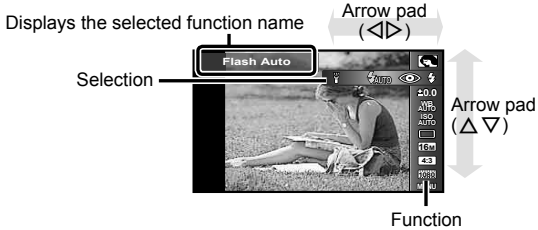

## Function menu


① Picture Mode.....P. 38
② Flash.....P. 39
③ Exposure compensation.....P. 39
④ White balance.....P. 39
⑤ ISO sensitivity.....P. 40
⑥ □/⏱.....P. 40
⑦ Image Size (still images).....P. 40
⑧ Aspect.....P. 41
⑨ Image Size (movies).....P. 41


**1** Press (OK) to display the function menu.

- To hide the function menu, press (OK) again.

**2** Use △▽ (arrow pad) on the arrow pad to select settings, use ◁▷ to change the selected setting, and press (OK).



- The default settings of the function are highlighted in .

| Picture Mode | | Sets the processing options. |
|---|---|---|
| 1 | Vivid | Produces vivid colors. |
| 2 | Natural | Produces natural colors. |
| 3 | Muted | Produces flat tones. |
| | Fish Eye | Produces distortion with the effect of shooting with a fisheye lens. |
| | Sparkle | Produces twinkling lights with the effect of shooting with a cross filter. |
| | Reflection | Makes an image with the effect of reflecting in a mirror. |
| | Fragmented | Makes an image into a collage of tiles. This mode produces the effect of mosaic art. |
| ART 1 | Pop Art | Enhances the color and atmosphere of an image more brightly and vividly. |
| ART 2 | Soft Focus | Expresses an ethereal atmosphere with a soft tone and makes an image dreamy. |
| ART 3 | Pale&Light Color | Expresses a comfortable floating feeling by making an image more pale and light. |
| ART 4 | Light Tone | Creates a high-quality image by softening both shadows and highlights. |
| ART 5 | Grainy Film | Expresses the strength and roughness of black and white. |
| ART 6 | Pin Hole | Expresses the tunnel effect like that obtained from an old fashioned camera or a toy camera by reducing the peripheral brightness. |
| ART 7 | Diorama | Expresses an image shooting a surreal miniature world with enhancing the saturation and contrast and blurring an out-of-focus area of an image. |
| ART 8 | Cross Process | Creates an image that expresses a surreal atmosphere. |
| ART 9 | Gentle Sepia | Creates a high-quality image by drawing out shadows and softening the overall image. |
| ART 10 | Dramatic Tone | Enhances the local contrast of an image and provide an image that a difference of brightness and darkness is emphasized. |
| ART 11 | Key Line | Creates an image that emphasizes edges and adds an illustrative style. |
| ART 12 | Watercolor | Creates a soft, bright image by removing dark areas, blending pale colors on a white canvas, and further softening contours. |
| ART 13 | Vintage | Expresses an everyday shot in a nostalgic, vintage tone using printed film discoloration and fading. |

| **Flash** | | **Sets the flash firing method.** |
|---|---|---|
| AUTO | 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. |
| RC | Remote Control | The dedicated underwater strobe or the Olympus wireless RC flash is used to take pictures. For details, see “Using a dedicated underwater strobe” (P. 103). |
| SLV | Slave | The commercially-available slave flash that is synchronized with the camera flash is used for taking pictures. The flash intensity setting can be adjusted. |
| | LED On | The LED turns on when a picture is taken. This is effective for taking close up pictures. |
| **Exposure compensation** | | **Compensates the brightness (appropriate exposure) adjusted by the camera.** |
| **–2.0** to **+2.0** Value | | Set a larger negative (–) value to adjust darker, or a larger positive (+) value to adjust brighter. |
| **White balance** | | **Sets an appropriate color scheme for the light of the shooting scene.** |
| WB AUTO | WB Auto | The camera automatically adjusts the white balance. |
| | Sunny | Suitable for shooting outdoors under a clear sky. |
| | Cloudy | Suitable for shooting outdoors under a cloudy sky. |
| | Incandescent | Suitable for shooting under tungsten lighting. |
| | Fluorescent | Suitable for shooting under white fluorescent lighting. |
| | Underwater | Suitable for underwater shooting. |
| 1 | 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. 41). |
| 2 | One Touch 2 | |

| ISO sensitivity | | Sets the ISO sensitivity. |
|---|---|---|
| ISO AUTO | ISO Auto | The camera automatically sets the sensitivity with priority on image quality. |
| ISO HIGH | High ISO Auto | The camera automatically sets the sensitivity with priority on minimizing blur caused by a moving subject or by camera shake. |
| ISO 125 to ISO 6400 | Value | Set a smaller value to reduce noise in the picture, or a larger value to reduce blur. |
| □/⏱ | | **Sets the sequential shooting function and the time from pressing the shutter button until the picture is taken.** |
| □ | Single | One frame is shot each time the shutter button is pressed. |
| 1 | Sequential 1 | The images are taken sequentially for 200 frames at up to about 2.5 frames per second (fps) while pressing down the shutter button all the way down. |
| 2 | Sequential 2 | The images are taken sequentially for up to 7 frames at about 7 frames per second (fps) while pressing down the shutter button all the way down. |
| Hi 1 | High-Speed1 | The images are taken sequentially for up to 60 frames at about 20 frames per second (fps) while pressing down the shutter button all the way down. |
| Hi 2 | High-Speed2 | The images are taken sequentially for up to 60 frames at up to 60 frames per second (fps) while pressing down the shutter button all the way down. |
| ⏱2 | ⏱ 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 | ⏱ 2 sec | The self-timer lamp blinks for approx. 2 seconds, then the picture is taken. |
| ⏱C | Custom Self-timer | Photographs are taken at "⏱ Timer sec (the time from pressing the shutter button until the picture is taken), the number of frames, and the interval time" which you set. |
| **Image size (still images)** | | **Sets the number of recording pixels.** |
| 16M | 4608×3456 | Suitable for printing pictures over A3 (11×17 in.). |
| 8M | 3200×2400 | Suitable for printing pictures up to A3 (11×17 in.). |
| 3M | 1920×1440 | Suitable for printing pictures up to A4 size (8.5×11 in.). |
| VGA | 640×480 | Suitable for using pictures on emails. |

| Aspect | | Sets the horizontal-to-vertical ratio of images. |
|---|---|---|
| 4:3 | 4:3 | Change the horizontal-to-vertical ratio when taking pictures. |
| 16:9 | 16:9 | |
| 3:2 | 3:2 | |
| 1:1 | 1:1 | |
| **Image size (movies)** | | **Sets the number of recording pixels.** |
| 60P 1080 | 1080 60p*1 | Shoots smooth full HD movies at 60 frames per second (fps). |
| 1080 | 1080p | Shoots full HD movies. |
| 720 | 720p | Shoots HD movies. |
| VGA | VGA | Shoots 640×480 movies. |
| HS 120fps | HS 120*1, 2 | Shoots 640×480 HS movies. |
| HS 240fps | HS 240*1, 2 | Shoots 480×360 HS movies. |

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

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

- In certain shooting modes, some functions cannot be set. ☞ "List of settings available in each shooting mode" (P. 106).
- Examples of image size when the aspect ratio is [4:3].

## Registering one touch white balance

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

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

# Using the setup menu functions

## Setup menu

| ① Camera Menu 1 | P. 44 |
|---|---|
| | Wi-Fi Start/End Wi-Fi (P. 69)<br>Reset<br>Compression<br>Shadow Adjust<br>AF Mode<br>ESP/<br>Digital Zoom |

| ② Camera Menu 2 | P. 47 |
|---|---|
| | Image Stabilizer (Still images)<br>Remote Flash<br>AF Illuminator<br>Rec View<br>Pic Orientation<br>Date Stamp<br>Super-Res Zoom |

| ③ Movie Menu | P. 51 |
|---|---|
| | IS Movie Mode<br>(Movie sound recording)<br>Wind Noise Setting |

| ④ Playback Menu | P. 52 |
|---|---|
| | Slideshow<br>Edit<br>Erase<br>Print Order (P. 84)<br>(Protect)<br>Share Order |

| ⑤ Settings Menu 1 | P. 59 |
|---|---|
| | Memory Format/Format<br>Backup<br>Eye-Fi<br>USB Connection<br>Power On<br>Sound Settings<br>Pixel Mapping |

| ⑥ Settings Menu 2 | P. 61 |
|---|---|
| | (Monitor)<br>Disp. Inversion Set.<br>TV Out<br>(Language)<br>(Date/time)<br>World Time<br>LED Illuminator |

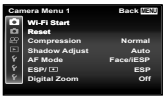
| ⑦ Settings Menu 3 | P. 64 |
|---|---|
| | GPS Settings<br>Wi-Fi Settings<br>Interval Settings<br>Button Function<br>Sportcam Settings |

## Using the setup menu

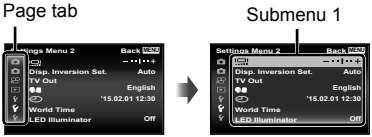
Press the **MENU** button during shooting or playback to display the setup menu.
The setup menu provides access to a variety of camera settings, such as shooting and playback functions, time and date settings, and display options.

***1*** Press the **MENU** button.

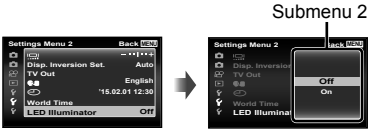
- The setup menu is displayed.




***2*** Press ◁ (arrow pad) to select the page tabs. Use △▽(arrow pad) to select the desired page tab and press ▷.




***3*** Use △▽(arrow pad) to select the desired submenu 1 and then press the (OK) button.




***4*** Use △▽(arrow pad) to select the desired submenu 2 and then press the (OK) button.

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

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

For the operation method, refer to (P. 43).

- The default settings of the function are highlighted in .

## Camera Menu 1

### *Restoring the shooting functions to the default settings [Reset]*

| Submenu 2 | Application |
|---|---|
| Yes | Restores the following menu functions to the default settings.<br>• Sub mode of ART, SCN, SPORT, , and<br>• Picture Mode<br>• Flash<br>• Exposure compensation<br>• White balance<br>• ISO sensitivity<br>• /<br>• Image Size (still images)<br>• Aspect<br>• Image size (movies)<br>• 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. 101)

For the operation method, refer to (P. 43).

## *Brightening the subject against backlight [Shadow Adjust]*

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

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

## *Selecting the focusing area [AF Mode]*

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

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

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

### To focus on a moving subject continuously (AF Tracking)

① Hold the camera to align the AF target mark on the subject and press the OK 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 OK button.

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

For the operation method, refer to (P. 43).

### *Selecting the method for measuring the brightness*
### *[ESP/[•]]*

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

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

### *Shooting at higher magnifications than optical zoom*
### *[Digital Zoom]*

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

- The option selected for [Digital Zoom] affects the appearance of the zoom bar (P. 50).

For the operation method, refer to (P. 43).

## 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. |

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

### *Using an external flash wirelessly [Remote Flash]*

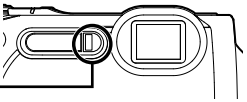
| Submenu 2 | Application |
|---|---|
| Off | The external flash is not available (For flash photography, the camera uses the built-in flash). |
| RC | The dedicated underwater strobe or the Olympus wireless RC flash is used for taking pictures. ☞ “Using a dedicated underwater strobe” (P. 103) |
| Slave | The commercially-available slave flash that is synchronized with the camera flash is used for taking pictures. The flash intensity setting can be adjusted. |

- When you select [RC] or [Slave], you can select [RC] or [SLV] in the flash mode (P. 34).

For the operation method, refer to (P. 43).

### *Using the assist lamp for shooting a dark subject ◘ [AF Illuminator]*

| 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. |
| 0.5/1/2/3 (sec) | The image being recorded is displayed for selected second(s). This allows the user to make a brief check of the image that was just taken. |

For the operation method, refer to (P. 43).

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

- During shooting, the [] (P. 55) setting on the playback menu is set automatically.
- This function may not work properly if the camera is facing up or down during shooting.

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

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

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

- When the date and time are not set, [Date Stamp] cannot be set.
  ☞ [] (P. 63)
- The date stamp can not be deleted.
- You cannot set [Date Stamp] when drive settings are [1], [2], [Hi 1], and [Hi 2], and the picture mode is except [Vivid], [Natural], and [Muted].

For the operation method, refer to (P. 43).

### *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 | W T<br>Super-resolution zoom |
| Off | On | 16M | W T<br>Digital zoom |
| | | Other | W T<br>*1 |
| On | On | 16M | W T<br>Super-resolution zoom<br>Digital zoom |

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

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

For the operation method, refer to (P. 43).

## Movie Menu

### *Reducing the blur caused by the camera shake when shooting [IS Movie Mode]*

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

- Images may not be stabilized if camera shake is too severe.
- While [On Hybrid] is set, the movie angle is narrower a little.
- In HS movie mode, [On Hybrid] cannot be used.

### *Recording sound when shooting movies [ ]*

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

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

### *Reduce wind noise in the recorded sound when recording movie [Wind Noise Setting]*

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

For the operation method, refer to (P. 43).

## ▶ Playback Menu

### *Playing back pictures automatically ▶ [Slideshow]*

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

- During a slideshow, press ▷ (arrow pad) to advance one frame, ◁ to go back one frame.
- Press the **MENU** button or the OK button to stop the slideshow.

### *Editing still images ▶ [Edit]*

| Submenu 1 | Submenu 2 | |
|---|---|---|
| Edit (still images) | | P. 53 |
| | | P. 53 |
| | | P. 54 |
| | Shadow Adj | P. 54 |
| | Redeye Fix | P. 54 |
| | | P. 55 |
| | e-Portrait | P. 55 |
| Edit (movies) | In-Movie Image Capture | P. 55 |
| | Movie Triming | P. 56 |

For the operation method, refer to (P. 43).

## *Changing the image size ▶ [⤡]*

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

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

① Use ◁▷ (arrow pad) to select an image.
② Use △▽ (arrow pad) to select an image size and press the OK button.
- The resized image is saved as a separate image.

## *Cropping image ▶ [⊿]*

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

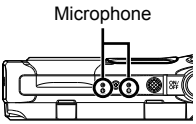
① Use ◁▷ (arrow pad) to select an image, and press the OK button.
② Use the zoom lever to select the size of the cropping frame, and use △▽◁▷ (arrow pad) to move the frame.
③ Press the OK button after you have selected the area to trim.
- The edited image is saved as a separate image.

Cropping frame

For the operation method, refer to (P. 43).

## *Adding sound to still images ▶ [🎙]*

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




① Use ◁▷ (arrow pad) to select an image.
② Aim the microphone toward the sound source.
③ Press the ⓞⓚ button.
- Recording starts.
- The camera adds (records) sound for approx. 4 seconds while playing back the image.

### To play sound recordings

To play sound recorded with an image, select the image and press the ⓞⓚ button.
- Press △▽ (arrow pad) to adjust volume.

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

| Submenu 1 | Submenu 2 |
|---|---|
| Edit | Shadow Adj |

① Use ◁▷ (arrow pad) to select an image, and press the ⓞⓚ 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 ◁▷ (arrow pad) to select an image, and press the ⓞⓚ button.
- The edited image is saved as a separate image.
- Depending on the picture, the editing may not be effective.
- The retouching process may lower the image resolution.

For the operation method, refer to (P. 43).

## *Rotating images ▶ [⟲]*

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

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

## *Smoothing skin tone ▶ [e-Portrait]*

| Submenu 1 | Submenu 2 |
|---|---|
| Edit | e-Portrait |

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

## *Capturing still images from movies ▶ [In-Movie Image Capture]*

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

① Use ◁▷ (arrow pad) to select the movie and press the ⓞ button.

② Use △▽◁▷ (arrow pad) to display the frame to be captured and press the ⓞ button.
- The selected frame is recorded as a still image.
- Some movies cannot be captured.

Frame position

For the operation method, refer to (P. 43).

## *Trimming long movies ▶ [Movie Triming]*

| Submenu 1 | Submenu 2 |
|---|---|
| Edit | Movie Triming |

① Use ◁▷ (arrow pad) to select the movie and press the OK button.
② Use △▽ (arrow pad) to select saving method and press the OK button.

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

③ Use △▽◁▷ (arrow pad) to display the frame to start erasing, and then press the OK button.
④ Use △▽◁▷ (arrow pad) to display the frame to end erasing, and then press the OK button.
⑤ Use △▽ (arrow pad) to select [Erase] and press the OK button.
  - To cancel trimming, select [Cancel].

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

For the operation method, refer to (P. 43).

## *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.<br>To erase each image in the group, refer to “Playing back panorama and grouped images” (P. 15). |

- 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 △▽ (arrow pad) to select [Sel. Image], and press the ⓞⓚ button.

② Use △▽◁▷ (arrow pad) to select the image to be erased, and press the ⓞⓚ button to add a ✓ mark to the image.

- Press the zoom lever to the T end to return to the single frame display.

③ Repeat Step ② to select the images to be erased, and then press the **MENU** button to erase the selected images.

④ Use △▽ (arrow pad) to select [Yes], and press the ⓞⓚ button.

- The images with a ✓ mark are erased.

### To erase all images [All Erase]

① Use △▽ (arrow pad) to select [All Erase], and press the ⓞⓚ button.

② Use △▽ (arrow pad) to select [Yes], and press the ⓞⓚ button.

For the operation method, refer to (P. 43).

## *Protecting images ▶ [⏲]*

- Protected images cannot be erased by [Erase] (P. 12, 57), [Sel. Image], [Erase Group], or [All Erase] (P. 57), but all images are erased by [Memory Format]/ [Format] (P. 59).

① Use ◁▷ (arrow pad) to select an image.

② Press the ⓞ button.
  - Press the ⓞ button again to cancel the settings.

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

- If you protect the grouped images, all images in the group will be protected at once. To protect each image in the group, expand images. ☞ "Playing back panorama and grouped images" (P. 15)

## *Setting a transfer order on images ▶ [Share Order]*

By setting orders to share, you can transfer the ordered images all together when connected the camera to a smartphone with [Private] (P. 72). With the smartphone in [One-Time] (P. 72), you can view only the ordered images to share.

① Use ◁▷ (arrow pad) to select an image for sharing and press ⓞ to display ⟨.

② Repeat ① to select all images for sharing, and then press the **MENU** button to end [Share Order].
  - ⟨ is displayed on the images selected for sharing.

- You can set a share order on a maximum around 200 frames.

For the operation method, refer to (P. 43).

## Settings Menu 1

### *Erasing data completely [Memory Format]/ [Format]*

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

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

### *Copying images in the internal memory to the card [Backup]*

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

### *Using an Eye-Fi card [Eye-Fi]*

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

- When using an Eye-Fi card, read the Eye-Fi card instruction manual carefully, and comply with the instructions.
- This camera does not support the Eye-Fi card's Endless mode.
- Before use, refer to "Eye-Fi card" (P. 99).

For the operation method, refer to (P. 43).

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

| Submenu 2 | Application |
|---|---|
| Auto | Set to select the connection method each time the camera is connected to another device. |
| Storage | Connect camera as a card reader. |
| MTP | For Windows Vista/Windows 7/Windows 8/Windows 8.1/ Windows 10, connect camera as a portable device. |
| Print | Select when connecting to a PictBridge-compatible printer. |

- When using the supplied software, select [Storage].
- Refer to “Connecting the camera to a computer” (P. 86) for the connection method with a computer.

### *Turning on the camera with the ▶ button ƒ [▶ Power On]*

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

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

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

For the operation method, refer to (P. 43).

### *Adjusting the image processing function [Pixel Mapping]*

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

**To adjust the image processing function**

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

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

## Settings Menu 2

### *Adjusting the brightness of the monitor [ ]*

① Use △▽ (arrow pad) to adjust the brightness while viewing the monitor, and then press the OK button.

### *Inverting the screen view and the button operations [Disp. Inversion Set.]*

| Submenu 2 | Application |
|---|---|
| Auto | According to the directions of the camera and the monitor, automatically inverts the screen view and the button operation. |
| Standard | Nothing is inverted. |
| Inverted | Inverts and fixes the screen view and the button operation so that you use the camera inverted comfortably. |

For the operation method, refer to (P. 43).

### *Playing back images on a TV ƒ [TV Out]*

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

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

- For the connection method, refer to "Viewing camera images on TV" (P. 78).

### *Changing the display language ƒ [ ]*

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

For the operation method, refer to (P. 43).

## *Setting the date and time [⏲]*

① Press △▽ (arrow pad) of the arrow pad to select the year for [Y].
② Press ▷ (arrow pad) of the arrow pad to save the setting for [Y].
③ As in Steps ① and ②, press △▽◁▷ (arrow pad) of the arrow pad to set [M] (month), [D] (day), [Time] (hours and minutes), and [Y/M/D] (date order), and then press the OK button.

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

### To check the date and time

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

## *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 △▽ (arrow pad) 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 (✈).

For the operation method, refer to (P. 43).

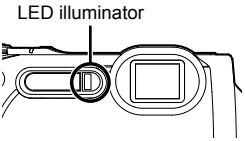
### *Lighting the LED illuminator ƒ [LED Illuminator]*

| Submenu 2 | Application |
|---|---|
| Off | Disables the LED illuminator. |
| On | Enables the LED illuminator. |

- Unavailable in ⌘.

#### To use the LED illuminator

- Press and hold the **INFO** button down until the LED illuminator lights up.
- If you perform an operation when the LED illuminator is on, it will illuminate up to approx. 90 seconds.
- The LED illuminator turns off if no operation is performed for approx. 30 seconds.
- Even when the camera's power is turned off, if the **INFO** button is pressed until the LED illuminator lights up, it lights for 30 seconds.




#### To turn the LED illuminator off

- Press and hold the **INFO** button down, until the LED illuminator turns off.

## ƒ Settings Menu 3

### *Recording the shooting location and time information on the images shot ƒ [GPS Settings]*

| Submenu 2 | Submenu 3 | Application |
|---|---|---|
| GPS | Off | When the GPS function is not going to be used. |
| | On | When the GPS function is going to be used. |
| Auto Time Adjust | Off | Do not adjust the clock. |
| | On | Adjust the clock using GPS UTC data. |
| Track | Off | Turn GPS tracking off. |
| | On | The camera records the log automatically. |
| | Save | Saves a track log in the card. |
| A-GPS Data | – | Allows you to check the validity period of the data. |

For the operation method, refer to (P. 43).

- [Auto Time Adjust] applies only when ⌂ (home time zone) is selected for [World Time].
- For the GPS function and Track function, refer to “Using GPS function (GPS Settings)” (P. 76).

## *Setting Wi-Fi [Wi-Fi Settings]*

| Submenu 2 | Application |
|---|---|
| Connection Settings | Set the connection mode.<br>☞ “Changing connection method” (P. 72) |
| Private Password | Regenerate a password. |
| Reset | Cancel all images selected for sharing. |
| Reset Wi-Fi Settings | Reset Wi-Fi settings to the default settings. |

- For the operation method, refer to “Connecting the camera to a smartphone” (P. 68).

## *Adjusting interval settings [Interval Settings]*

| Submenu 2 | Submenu 3 |
|---|---|
| Number of Frames | 1 to 99 (frames) |
| Start Waiting Time | 0 to 60 (minutes) |
| Interval Length | 10/20/30/40/50 (sec.)/1 to 60 (minutes) |

For the operation method, refer to (P. 43).

### *Assigning functions to the face button and ◎ (movie) button ƒ [Button Function]*

| Submenu 2 | Application |
|---|---|
| Function | Assign the particular function to the face button. |
| Function | Assign the particular function to the ◎ (movie) button. |

| Submenu 2 | Submenu 3 | Application |
|---|---|---|
| Function | Shoot Photo | Press the button halfway to focus, and press all the way down to take pictures. When sequential shooting is set, press and hold the button to shoot sequentially. |
| | Rec. Movie | Press the button to shoot movies. Pressing the button again during shooting ends the shooting. |
| | Monitor Boost | Maximizes the screen brightness while the button is pressed. |
| | LED | Flashes the LED light while the button is pressed. |
| | Super Macro*1, 2 | Press the button to switch the super macro on or off. |
| | Off | No function is assigned to the button. |
| Function | Shoot Photo | Press the button once to take pictures. When sequential shooting is set, press and hold the button to shoot sequentially. |
| | Rec. Movie | The same as [ Function]. |
| | Monitor Boost | |
| | LED | |
| | Super Macro*1, 2 | |
| | Off | |

*1 During activation of Super Macro, the zoom range is limited.

*2 The super macro mode is valid to the following shooting modes: **P**, **ART**, **SPORT**, and **SCN** ([ ], [ ], [ ], [ ], and [ ]).

- When you cancel the registration of [ Shoot Photo] or [ Rec. Movie], shooting pictures or movies may be unavailable in some shooting modes.

For the operation method, refer to (P. 43).

## *Setting SPORT [Sportcam Settings]*

| Submenu 2 | Submenu 3 | Application |
|---|---|---|
| Invert Image | No | Images are not inverted. |
| | Yes | When the camera is inverted, the top, bottom, left, right of the save images are also inverted. If you shoot a movie with the camera inverted, the movie will not be upside-down. |
| Repeat Rec | No | The camera does not repeat the same shooting. |
| | Yes | When the first shooting is finished, the camera repeats the same shooting. The camera continues shooting until you stop the shooting or the number of storable pictures or the recording length reaches its limit.<br>The recording length is up to 99 hours or the number of storable picture is up to 20,000 shots. |
| Sleep Mode | No | The sleep mode is off. |
| | Yes | The camera enters sleep mode when you leave the camera unattended for approx. 30 seconds.<br>If the camera enters sleep mode during shooting, the shooting is not stopped. Any button operation cancels sleep mode.<br>When you leave the camera during shooting, this function saves the buttery consumption. |

- This setting is available only in SPORT.

# Connecting the camera to a smartphone

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

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

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

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

- Before using the wireless LAN function, read "Using the wireless LAN function" (P. 114).
- If using the wireless LAN function in a country outside the region where the camera was purchased, there is a risk that the camera will not conform to the wireless communication regulations of that country. Olympus will not be held responsible for any failure to meet such regulations.
- As with any wireless communication, there is always a risk of interception by a third party.
- The wireless LAN function on the camera cannot be used to connect to a home or public access point.
- The wireless LAN antenna is in the bottom of the camera. Keep the antenna away from metal objects whenever possible.
- During wireless LAN connection, the battery will run down faster. If the battery is running low, the connection may be lost during a transfer.
- Connection may be difficult or slow in proximity to devices that generate magnetic fields, static electricity or radio waves, such as near microwaves, cordless telephone.

# Connecting to a smartphone

**1** Start the OI.Share App installed on your smartphone.

**2** Select [Wi-Fi Start] in the Camera Menu 1 and press (OK).

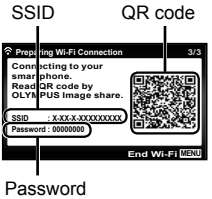
- Pressing and holding the **MENU** button also starts [Wi-Fi Start].

**3** Follow the operation guide displayed on the camera monitor to prepare for Wi-Fi connection.

**4** Use the smartphone that the OI.Share is activated to read the QR code displayed in the camera monitor. The connection automatically starts.

**Failure of reading QR code**

Set a SSID and a password in the Wi-Fi setting of a smartphone before the connection (The SSID and the password are displayed at the lower left of QR code screen.).
For the Wi-Fi setting for your smartphone, read the instruction manual of the smartphone.




- To end the connection, press the **MENU** button of the camera.

**Error message during Wi-Fi connection**

Connect the camera to the smartphone again.

① Turn off the Wi-Fi function of your smartphone.

② Turn on the Wi-Fi function again. Select the SSID for TG-870 before another connection is made.

## Transferring images to a smartphone

You can select images in the camera and load them to a smartphone. You can also use the camera to select images you want to share in advance.
☞[Share Order] (P. 58)

**1** Connect the camera to a smartphone. (P. 69)

**2** Tap the Image Transfer button in OI.Share.

- The images in the camera are displayed in a list.
- When an error message is displayed: ☞ “Error message during Wi-Fi connection” (P. 69)

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

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

## Shooting remotely with a smartphone

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

**1** Connect the camera to a smartphone. (P. 69)

**2** Tap the Remote button in OI.Share.

- When an error message is displayed: ☞ “Error message during Wi-Fi connection” (P. 69)

**3** Tap the shutter button to shoot.

- Shot images are saved in the internal memory or on the memory card in the camera.

- Available shooting options are partially limited.

# Adding position information to images

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

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

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

**2** When shooting is complete, turn off the switch on the Add Location button.

Saving the GPS log is complete.

**3** Connect the camera to a smartphone. (P. 69)

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

- GPS tags are added to the images in the internal memory or in the memory card based on the transferred GPS log.
- In the detailed playback, latitude and longitude are displayed on images to which position information has been added.
- When an error message is displayed: ☞ “Error message during Wi-Fi connection” (P. 69)

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

## Changing connection method

There are two ways to connect the camera to a smartphone: [Private], by which you use the same setting every time, and [One-Time], by which you use different setting every time.
It is recommended to use [Private] when connecting to your smartphone, and to use [One-Time] when transferring images to another smartphone.

- The factory default setting is [Private].

**1** Select [Wi-Fi Settings] in the Settings Menu 3 and press OK.

**2** Select [Connection Settings] and press ▷ (arrow pad).

**3** Select the wireless LAN connection method and press OK.

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

## Changing password

Change the password used for [Private].

**1** Select [Wi-Fi Settings] in the Settings Menu 3 and press OK.

**2** Select [Private Password] and press ▷ (arrow pad).

**3** Follow the operation guide and press △ (arrow pad).

- A new password will be set.

## Cancelling a share order

Cancel share orders that are set on images.

1. Select [Wi-Fi Settings] in the Settings Menu 3 and press OK.
2. Select [Reset ] and press ▷ (arrow pad).
3. Select [Yes] and press OK.

## Resetting wireless LAN settings

Initializes content of [Wi-Fi Settings].

1. Select [Wi-Fi Settings] in the Settings Menu 3 and press OK.
2. Select [Reset Wi-Fi Settings] and press ▷ (arrow pad).
3. Select [Yes] and press OK.

# Using GPS function

Use the camera GPS function to record the position information in the images or record movement tracking.

- Latitude and longitude are displayed on images to which position information has been added.
- The camera is not equipped for GPS navigation.
- Before using the GPS function, read “GPS function, electronic compass” (P. 114).
- In certain countries and regions it may be illegal to acquire position information without prior application to the government. Because of this, in certain sales regions, the camera may be set up not to display position information.
  When taking the camera abroad, be aware that some regions or countries may have laws regulating the use of this function. Be sure to abide by all local laws.
- Turn GPS off when on board aircraft and in other locations in which the use of GPS devices is prohibited. ☞ [GPS Settings] (P. 64)
- This camera also supports Quasi-Zenith Satellites System and GLONASS.

# Before using GPS function (A-GPS data)

Depending on the status of the camera and communication, it may take time to acquire the position information. When the A-GPS is used, the position determination time can be shortened from a few seconds to a few tens of seconds. The A-GPS data can be updated using the smartphone app “OLYMPUS Image Track” (OI.Track) or the PC software “OLYMPUS A-GPS Utility”.

- Make sure that the camera date is set correctly.
- Set the camera to private connection (P. 72).
- A-GPS data must be updated every 2 weeks.
  The position information may have changed when time has elapsed after updating the data. Use as new A-GPS data as possible.
- The provision of A-GPS data may be terminated without prior notice.

**Updating the A-GPS data using a smartphone**

Before update, install the OI.Track smartphone app on your smartphone. Refer to the URL below for details on how to update the A-GPS data.
http://app.olympus-imaging.com/oitrack/
Connect the camera and the smartphone, following the procedure described in “Connecting to a smartphone” (P. 69).

**Updating the A-GPS data using a PC**

Download the OLYMPUS A-GPS Utility software from the URL below, and install it on your PC.
http://sdl.olympus-imaging.com/agps/
Refer to “OLYMPUS A-GPS Utility Instruction Manual” on the website with above URL for details on how to update the data.

**Error message during Wi-Fi connection**

Connect the camera to the smartphone again. ☞ (P. 69)

# Using GPS function (GPS Settings)

**1** Select [GPS Settings] in the Settings Menu 3 and press OK.

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

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

- GPS flashes during measurement. When the position measurement ends, GPS will appear and the position information will be displayed.
- Once the position measurement has ended, position information will be added to the pictures at the time of shooting.

- Do not cover the GPS antenna with your hands or metal objects.
- If you are using the GPS function for the first time and the A-GPS has not been updated, or if the function has not been used for a long time, it may take a few minutes for the position measurement to end.
- Latitude and longitude are displayed on the shooting screen. If you do not wish to add position information, set [GPS] to [Off].
- Position information is not added to movies.
- When the [GPS] is set to [On], the battery will run down faster.

### Using an information acquisition function to display movement tracking (Track)

① Select [GPS Settings] in the Settings Menu 3 and press OK.
② Select [Track] and press OK.
③ Select [Off], [On], or [Save] and press OK.

| Submenu 2 | Submenu 3 | Application |
|---|---|---|
| Track | Off | Do not record position information. |
| | On | The camera automatically records position information at regular intervals. |
| | Save | Saves the recorded position information of the camera on the card every time you select [Save] and press OK. The information in the camera is deleted.<br>The recording length of positon information is approx. 56 hours in total. Please do this as necessary. |

- Track logs are stored in the GPSLOG folder on the memory card.
- Tracking ends automatically when:
  - The battery is exhausted.
  - The camera is left off for more than 24 hours.
- While [Track] is [On], the GPS receiver will continue to draw power from the battery when the camera is off.

### Displaying tracked movement of GPS logs

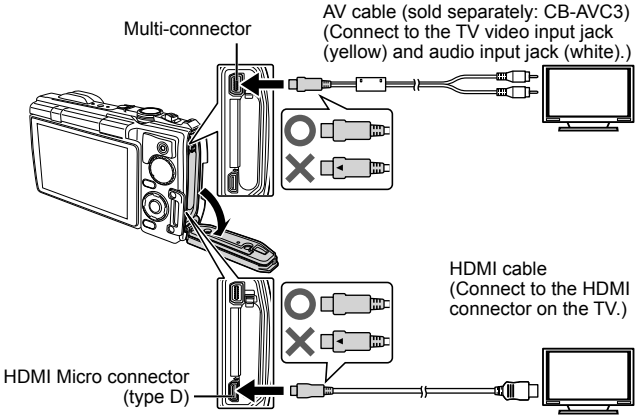
After the GPS track logs are recorded, the tracked movement of the logs can be displayed using the OLYMPUS Viewer 3 or OI.Track.

- The tracked movement cannot be displayed on the camera.

# Connecting the camera to another device

## Viewing camera images on TV

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




**1** Use the cable to connect the camera to the TV.

- Choose the camera video mode before connecting the camera via an AV cable. ☞ [TV Out] (P. 62)

**2** Choose the TV input channel.

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

- For details on changing the input source of the TV, refer to the TV's instruction manual.
- Depending on the TV's settings, the displayed images and information may become cropped.
- If the camera is connected using both an A/V and HDMI cable, it will assign priority to HDMI.
- Do not connect the USB cable and HDMI cable at the same time.
- If the camera is connected via an HDMI cable, you will be able to choose the digital video signal type. Choose a format that matches the input format selected with the TV.

| | |
|---|---|
| **1080p** | Priority is given to 1080p HDMI output. |
| **1080i** | Priority is given to 1080i HDMI output. |
| **720p** | Priority is given to 720p HDMI output. |
| **480p/576p** | 480p/576p HDMI output. 576p is used when [PAL] is selected for [TV Out] (P. 62). |

## Using the TV remote control

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

**1** Select [TV Out] in Settings Menu 2.

**2** Select [HDMI Control] and choose [On].

**3** Operate the camera by using the TV remote control.

- You can operate the camera by following the operation guide displayed on the TV.
- Some televisions may not support all features.

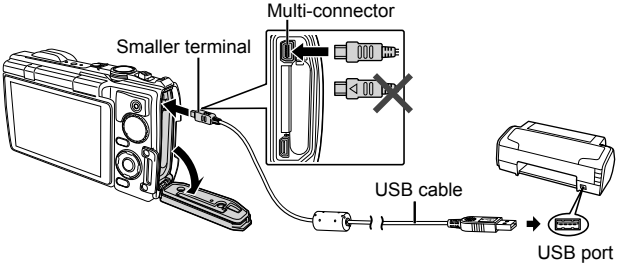
- You cannot shoot pictures or movies when the HDMI cable is connected.
- Do not connect the camera to other HDMI output devices. Doing so may damage the camera.
- HDMI output is not performed while connected via USB to a computer or printer.

# Printing Pictures

## Direct printing (PictBridge)

By connecting the camera to a PictBridge-compatible printer with the USB cable, you can print out recorded pictures directly.
Before connecting, select [Print] for [USB Connection] (P. 60) in the setting menu.

**Connecting the camera**




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

### ■ Easy printing

Browse pictures and print them one at a time.

**1** Use ◁▷ (arrow pad) to display the pictures you want to print on the camera.

**2** Connect the camera to the printer using the supplied USB cable.

- If the easy print start screen is not displayed, select [Print] for [USB Connection] (P. 60) in the setting menu before connecting the printer again.

**3** Press ▷ (arrow pad).

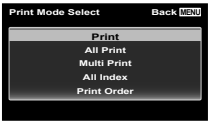
- The picture selection screen appears when printing is completed. To print another picture, use ◁▷ (arrow pad) to select the image and press (OK).
- To exit, unplug the USB cable from the camera while the picture selection screen is displayed.

## ■ Custom printing

Adjust print mode, paper type, and other settings before printing.

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

- When the camera is turned on, a dialog should be displayed in the monitor prompting you to choose a host. If it is not, select [Print] for [USB Connection] (P. 60) in the setting menu.




**2** Follow the operation guide to set a print option.

### Selecting the print mode

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

| | |
|---|---|
| **Print** | Prints selected pictures. |
| **All Print** | Prints all the pictures stored in the card and makes one print for each picture. |
| **Multi Print** | Prints multiple copies of one image in separate frames on a single sheet. |
| **All Index** | Prints an index of all the pictures stored in the card. |
| **Print Order** | Prints according to the print reservation you made (P. 84). If there is no picture with print reservation, this is not available. |

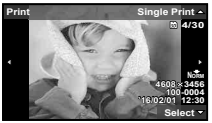
## Setting the print paper items

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

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

## Selecting pictures you want to print

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




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

**Setting printing data**

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

| | |
|---|---|
| ⎙× | Sets the number of prints. |
| **Date** | Prints the date and time recorded on the picture. |
| **File Name** | Prints the file name recorded on the picture. |
| ⌗ | Trims the picture for printing. Set the trimming size with the zoom lever (T/W), and set the trimming position with △ ▽ ◁ ▷ (arrow pad). |

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

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

## ■ Cancelling printing

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

## Print reservation (DPOF)

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.

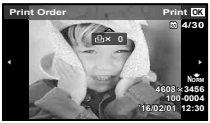
### ■ Single-frame print reservations [⎙]

**1** Display the setup menu.

- "Using the setup menu" (P. 43)

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

**3** Use △▽ (arrow pad) to select [⎙], and press the (OK) button.




**4** Use ◁▷ (arrow pad) to select the image for print reservation. Use △▽ (arrow pad) to select the quantity. Press the (OK) button.

**5** Use △▽ (arrow pad) to select the [⏲] (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. |

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

**6** Use △▽ (arrow pad) to select [Set], and press the (OK) button.

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

1 Follow Steps 1 and 2 in [⎙] (P. 84).

2 Use △▽ (arrow pad) to select [ALL], and press the OK button.

3 Follow Steps 5 and 6 in [⎙].

### ■ Resetting all print reservation data

1 Follow Steps 1 and 2 in [⎙] (P. 84).

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

3 Use △▽ (arrow pad) to select [Reset], and press the OK button.

### ■ Resetting the print reservation data for selected images

1 Follow Steps 1 and 2 in [⎙] (P. 84).

2 Use △▽ (arrow pad) to select [⎙], and press the OK button.

3 Use △▽ (arrow pad) to select [Keep] and press the OK button.

4 Use ◁▷ (arrow pad) to select the image with the print reservation you want to cancel. Use △▽ (arrow pad) to set the print quantity to “0”.

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

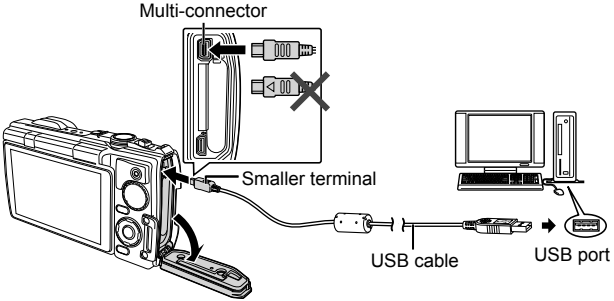
6 Use △▽ (arrow pad) to select the [⏲] (date print) screen option, and press the OK button.

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

7 Use △▽ (arrow pad) to select [Set], and press the OK button.

# Connecting the camera to a computer

## Connecting the camera




- If nothing is displayed on the camera screen even after connecting the camera to the computer, the battery may be exhausted. Use a full-charged battery.
- If the camera cannot connect to PC, disconnect the USB cable and check the setting of [USB Connection] (P. 60) before connecting to PC again.
- The battery can be charged while the camera is connected to the computer via USB. The charging time varies depending on the performance of the computer. (There may be cases in which it takes approx. 10 hours.)

# Copying pictures to a computer

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

| | |
|---|---|
| **Windows** | Windows Vista SP2 / Windows 7 SP1 / Windows 8 / Windows 8.1 / Windows 10 |
| **Macintosh** | Mac OS X v10.5-v10.10 |

**1** Turn the camera off and connect it to the computer.

- The location of the USB port varies with the computer. For details, refer to your computer's manual.

**2** The computer recognizes the camera as a new device.

- To use Windows Photo Gallery, select [MTP] for the [USB Connection] option in the setting menu.
- Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
  Computers with a USB port added by means of an extension card, etc.
  Computers without a factory-installed OS and home-built computers
- Camera controls can not be used while the camera is connected to a computer.
- If the dialog is not displayed when the camera is connected, set [USB Connection] (P. 60) of Settings Menu 1 before connecting to PC again.

# Installing Software

Use OLYMPUS Viewer 3 to import to your computer and browse, edit, and organize pictures taken with your camera.

## ■ Windows

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

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

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

**2** Follow the on-screen instructions on your computer.

**3** Register your Olympus product.

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

**4** Install OLYMPUS Viewer 3.

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

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

- See online help for information on using the software.

## ■ Macintosh

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

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

**2** Install OLYMPUS Viewer 3.

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

| | |
|---|---|
| **Operating System** | Mac OS X v10.8–v10.10 |
| **Processor** | Core 2 Duo 2 GHz or better |
| **RAM** | 2 GB or more |
| **Free Hard Drive Space** | 3 GB or more |
| **Monitor Settings** | 1024 × 768 pixels or more<br>Minimum 32,000 colors (16,770,000 colors recommended) |

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

# Usage Tips

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

## Troubleshooting

### ■ Battery

**The camera does not work even when batteries are installed.**

- Insert recharged batteries in the correct direction. ☞ "Inserting and removing the battery and card" (P. 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

**An error message is displayed.**

- ☞ "Error message" (P. 92)

### ■ 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.

- When the screen is difficult to see in bright environment (e.g. outdoors), maximize the screen brightness. ☞ “Difficulty of seeing the screen (monitor boost)” (P. 11)
- Condensation may have occurred. Turn off the power, and wait for the camera body to become acclimated to the surrounding temperature and dry out before taking pictures.

### The light is caught in the picture.

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

## ■ Date and time function

### Date and time settings return to the default setting.

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

  *1 The time until the date and time settings return to the default setting varies depending on how long the batteries have been loaded.
  ☞ “Turning on the camera and making the initial settings” (P. 9)

## ■ Lens

### Lens gets fogged.

- For rapid temperature change, lens fogging (condensation) may occur. Turn off the power, and wait for the camera body to become acclimated to the surrounding temperature and dry out before taking pictures.

## 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**<br>Insert a new card. |
| **Write Protect** | **Card problem**<br>The card write-protect switch is set to the “LOCK” side. Release the switch. |
| **Memory Full** | **Internal memory problem**<br>• Insert a card.<br>• Erase unwanted images.*1 |
| **Card Full** | **Card problem**<br>• Replace the card.<br>• Erase unwanted images.*1 |
| | **Card problem**<br>Use △▽ (arrow pad) to select [Format], and press the (OK) button. Next, use △▽ (arrow pad) to select [Yes], and press the (OK) button.*2 |
| | **Internal memory problem**<br>Use △▽ (arrow pad) to select [Memory Format], and press the (OK) button. Next, use △▽ (arrow pad) to select [Yes], and press the (OK) button.*2 |
| **No Picture** | **Internal memory/Card problem**<br>Take pictures before viewing them. |
| **Picture Error** | **Problem with selected image**<br>Use photo retouch software, etc. to view the image on a computer. If the image still cannot be viewed, the image file is corrupted. |

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

*2 All data will be erased.

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

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

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

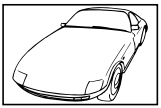
# Shooting tips

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

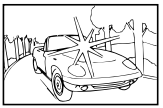
## ■ Focusing

### Focusing on the subject.

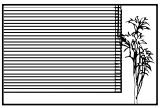
- **Taking a picture of a subject not in the center of the monitor.** ☞ P. 10
  After focusing on an object at the same distance as the subject, compose the shot, and take the picture.
- **Set [AF Mode] to [Face/iESP].** ☞ P. 45
- **Taking a picture in [AF Tracking] mode.** ☞ P. 45
  The camera tracks the subject movement automatically to focus on it continuously.
- **Taking a picture of a shadowy subject.** ☞ P. 48
  Using the AF illuminator makes focusing easier.
- **Taking a picture of subjects where autofocus is difficult.**
  In the following cases, after focusing on an object (by pressing the shutter button halfway down) with high contrast at the same distance as the subject, compose the shot, and take the picture.



Subject with low contrast

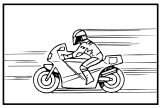


Excessively bright light in center of frame



Subject containing no vertical lines *1

Subjects at different distances



Fast-moving subject

Subject not inside AF area

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

## ■ Camera shake

**Taking pictures without camera shake.**

- **Taking pictures using [Image Stabilizer].** ☞ P. 47
  The camera detects camera movement to reduce the blur even if the ISO sensitivity is not increased. This function is also effective when taking pictures at a high zoom magnification.
- **Shooting movies using [IS Movie Mode].** ☞ P. 51
- **Select [Sport] in the scene mode.** ☞ P. 22
  The [Sport] mode uses a fast shutter speed and can reduce the blur incurred by a moving subject.
- **Taking pictures at a high ISO sensitivity.** ☞ P. 40
  If a high ISO sensitivity is selected, pictures can be taken at a high shutter speed even at locations where a flash cannot be used.

## ■ Exposure (brightness)

**Taking pictures with the right brightness.**

- **Taking pictures of a subject against a backlight**
  Faces or backgrounds are bright even when shot against backlight.
  [Shadow Adjust] ☞ P. 54
  [Backlight HDR] ☞ P. 22
- **Taking pictures using [Face/iESP].** ☞ P. 45
  Appropriate exposure is obtained for a face against backlight, and the face is brightened.
- **Taking pictures using [Spot Metering].** ☞ P. 46
  Brightness is matched with a subject in the center of the screen and the image is not affected by background light.
- **Taking pictures using [Fill In] flash.** ☞ P. 34
  A subject against backlight is brightened.
- **Taking pictures of a white beach or snow scene.** ☞ P. 22
  Select [Beach & Snow] in the scene mode.
- **Taking pictures using exposure compensation.** ☞ P. 39
  Adjust the brightness while viewing the screen for taking the picture. Normally, taking pictures of white subjects (such as snow) results in images that are darker than the actual subject. Use the exposure compensation to adjust in the positive (+) direction to express whites as they appear. When taking pictures of black subjects, on the other hand, it is effective to adjust in the negative (-) direction.

### ■ Color hue

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

- **Taking pictures by selecting white balance.** ☞ P. 39
  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. 46) to take pictures.
- **Taking pictures at a low ISO sensitivity.** ☞ P. 40
  If the picture is taken with a high ISO sensitivity, noise (small colored spots and color unevenness that were not in the original image) can occur, and the image can appear grainy.

## Playback/Editing tips

### ■ Playback

**Playing images in the internal memory and card.**

- **Remove the card and display the images in internal memory.** ☞ P. 5

**Viewing images with high picture quality on a highdefinition TV.**

- **Connect the camera to the TV using an HDMI cable.** ☞ P. 78

### ■ Editing

**Erasing the sound recorded to a still image.**

- **Record over the sound with silence when playing back the image.** ☞ P. 54

# Cleaning and storing the camera

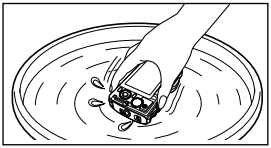
## Camera care

**Exterior:**

- Wipe gently with a soft cloth. If the camera is very dirty, soak the cloth in mild soapy water and wring well. Wipe the camera with the damp cloth and then dry it with a dry cloth. If you have used the camera at the beach, use a cloth soaked in clean water and well wrung.
- Foreign materials may be attached to the camera when using the camera in conditions with foreign materials such as dirt, dust or sand. If you continue to use the camera in such conditions, it could cause damage to the camera. To avoid such damage, wash the camera using the following method.

① Close and lock the battery/card compartment/connector cover firmly. (P. 5)

② Fill a bucket or other container with fresh water, immerse the camera facing downward in the bucket and shake the camera thoroughly. And rinse the camera by placing it directly under a strong stream of tap water while operating the buttons and dial and opening and closing the monitor.



**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 a chemically treated cloth.
- Mold may form on the lens surface if the lens is left dirty.

**Battery/USB-AC adapter:**

- Wipe gently with a soft, dry cloth.

## Storage

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

## Using a separately sold charger

A charger (UC-50: 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

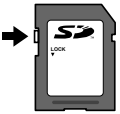
SD/SDHC/SDXC/Eye-Fi (with Wireless LAN function) card (commercially available) (maximum capacity: 128 GB) (for compatibility card details, visit the Olympus website.)

### Eye-Fi card

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

### 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**

IN: Internal memory is being used

SD: Card is being used

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

### Readout/recording process of the card

During shooting, the current memory indicator lights up in red while the camera is writing data. Never open the battery/card compartment/connector 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 | 8 | 880 |
| 8M 3200×2400 | FINE | 9 | 900 |
| | NORM | 16 | 1,630 |
| 3M 1920×1440 | FINE | 27 | 2,740 |
| | NORM | 54 | 5,480 |
| VGA 640×480 | FINE | 198 | 20,110 |
| | NORM | 341 | 30,170 |

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

## Movies

| Image Size | | Recording length | | | |
|---|---|---|---|---|---|
| | | Internal memory | | SD/SDHC/SDXC card (4GB) | |
| | | With sound | Without sound | With sound | Without sound |
| COOP 1080 | 1920×1080*1 | 9 sec. | 9 sec. | 18 min. | 18 min. |
| 1080 | 1920×1080*1 | 14 sec. | 15 sec. | 27 min. | 29 min. |
| COOP 720 | 1280×720*1 | 17 sec. | 18 sec. | 32 min. | 34 min. |
| 720 | 1280×720*1 | 27 sec. | 30 sec. | 51 min. | 57 min. |
| COOP 480 | 854×480 | 30 sec. | 34 sec. | 57 min. | 64 min. |
| 480 | 854×480 | 52 sec. | 1 min. 6 sec. | 100 min. | 125 min. |
| VGA | 640×480 | 1 min. 6 sec. | 1 min. 28 sec. | 125 min. | 167 min. |
| HS 120fps | 854×480 | — | 17 sec. | — | 32 min. |
| HS 120fps | 640×480 | — | 23 sec. | — | 43 min. |
| HS 240fps | 640×360 | — | 15 sec. | — | 29 min. |
| HS 240fps | 480×360 | — | 17 sec. | — | 32 min. |

*1 The recording length is up to 29 minutes in the HD 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. 12, 57), [Sel. Image], [All Erase], [Erase Group] (P. 57), [Memory Format]/[Format] (P. 59)

# Using separately sold accessories

## Using a dedicated underwater strobe

To use a dedicated underwater strobe, prepare an underwater case, a fiber-optic cable and so on. For details, refer to the instruction manual of the underwater case.
To use a dedicated underwater strobe, set the flash mode to [⚡RC]. [⚡RC] also allows you to take pictures with a wireless flash by using a special external flash, compatible with the Olympus Wireless RC Flash System.
The camera's built-in flash is used for communication between the camera and flash.

- For details about operation of a wireless flash, refer to the instruction manual for the special external flash.

**1** Turn on the dedicated underwater strobe.

**2** Set the flash mode of the dedicated underwater strobe to RC mode.

When you have to set a channel and a group, select CH1 for the channel, A for the group.

**3** Set [Remote Flash] (P. 47) on the camera to [⚡RC].

**4** Select the flash option in the function menu, and then select [⚡RC] (remote control).

- "Flash" (P. 34)

**5** Take a test shot to check the operation of the flash and the resulting image.

- Be sure to check the charge level of the camera and wireless flash before taking pictures.
- When the camera flash is set to [⚡RC], the camera built-in flash is used for communication with the wireless flash. It cannot used for taking pictures.
- To take pictures with a wireless flash, point the remote sensor of the special external flash toward the camera, and point the flash in the direction of the subject. The guideline of the setup range is from 1 to 2 m, however note that it varies depending on the ambient environment.

# Important information about water and shock resistant features

**Water resistance:** The waterproof feature is warranted*1 to operate at depths up to 15 m (49.2 feet) for up to one hour.
The waterproof feature may be compromised if the camera is subject to substantial or excessive impact.

- Do not push the monitor hard with it opened.

**Shock resistance:** The anti-shock feature warrants*2 the operation of the camera against accidental impact incurred from everyday use of your digital compact camera. The anti-shock feature does not unconditionally warrant all defective operation or cosmetic damage. Cosmetic damage, such as scratches and dents, are not covered under the warranty.
As with any electronic device, proper care and maintenance are required to preserve the integrity and operation of your camera. To maintain camera performance, please take your camera to the nearest Olympus Authorized Service Center to have it inspected after any major impact. In the event the camera is damaged as a result of negligence or misuse, the warranty will not cover costs associated with the service or repair of your camera. For additional information on our warranty, please visit to the Olympus website for your local area.
Please observe the following care instructions for your camera.

*1 As determined by Olympus pressure testing equipment in accordance with IEC Standard Publication 60529 IPX8 - This means that the camera can be used normally under water at a specified water pressure.

*2 This anti-shock performance is confirmed by Olympus's testing conditions (with the back monitor closed).

**Before Use:**

- Check the camera for foreign material including dirt, dust or sand.
- Firmly close the battery/card compartment/connector cover latch and LOCK knob.
- Do not open the battery/card compartment/connector cover with wet hands, while under water, or in a damp or dusty environment (e.g. beach).

### After Use:

- Be sure to wipe off any excess water or debris after using the camera under water.
- **After the camera is used under seawater, immerse the camera in a bucket containing fresh water for about 10 minutes (with the battery/card compartment/connector cover firmly closed). Do not leave the camera without cleaning for more than 60 minutes. This will cause damage to the camera's appearance and/or deteriorate water resistance.**
- **When opening the battery/card compartment/connector cover, take care not to allow water drops to enter the camera. If any water drops are found on the inner side of the cover, be sure to wipe them off before using the camera.**

### Storage and Maintenance

- Do not leave the camera in an environment at high temperature (40°C (104°F) or more) or at low temperature (-10°C (14°F) or less). Failure to do so may break down water resistance.
- Do not use chemicals for cleaning, rust prevention, anti-fogging, repairing, etc. Failure to do so may break down water resistance.
- **Do not leave the camera in water for a long time. Prolonged exposure to water will cause damage to the camera's appearance and/or deteriorate water resistance.**
- **In order to preserve the water resistant feature, as with any underwater housing, it is recommended that the waterproof packing (and seals) are replaced annually.**
  **For the Olympus distributors or service stations where the waterproof packing can be replaced, visit Olympus website for your local area.**
- The included accessories (e.g. USB-AC adapter) do not offer shock or water resistance.

# List of settings available in each shooting mode

For details on SCN, ART, or 🎥, refer to “List of SCN settings” (P. 107), “List of ART settings” (P. 109), “List of 🎥 settings” (P. 110).

| | P | iAUTO | 🌷VS | ⌘ | SPORT |
|---|---|---|---|---|---|
| Picture Mode | ✓ | — | ✓ | — | — |
| Flash | ✓ | *1 | *1 | — | *1 |
| Exposure Comp. | ✓ | — | ✓ | ✓ | ✓ |
| White balance | ✓ | — | ✓ | ✓ | ✓ |
| ISO | ✓ | — | ✓ | — | — |
| ▭/⏱ | ✓ | *1 | ✓ | *1 | *1 |
| Image size (still images) | ✓ | ✓ | ✓ | — | ✓ |
| Aspect | ✓ | ✓ | ✓ | — | — |
| Image size (movies) | ✓ | *1 | ✓ | *1 | *1 |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | — | ✓ | — | ✓ |
| AF Mode | ✓ | — | — | *1 | *1 |
| ESP/◉ | ✓ | — | — | ✓ | — |
| Digital Zoom | ✓ | — | ✓ | — | — |
| Image Stabilizer | ✓ | ✓ | ✓ | ✓ | ✓ |
| Remote Flash | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminator | ✓ | — | — | — | ✓ |
| Rec View | ✓ | ✓ | ✓ | ✓ | *1 |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | — | ✓ |
| Super-Res Zoom | ✓ | — | ✓ | — | — |
| IS Movie Mode | ✓ | ✓ | ✓ | ✓ | *1 |
| 🎙 | ✓ | ✓ | ✓ | ✓ | *1 |
| Wind Noise Setting | ✓ | ✓ | ✓ | ✓ | *1 |

*1 Some functions cannot be set.

# List of SCN settings

| | | | | | LIVE COMP | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Picture Mode | — | — | — | ✓ | — | — | — | — | — | — | — | — |
| Flash | *1 | *1 | — | ✓ | *1 | *1 | — | *1 | *1 | *1 | — | — |
| Exposure Comp. | — | — | — | ✓ | ✓ | — | — | — | — | — | — | — |
| White balance | — | — | — | ✓ | ✓ | — | — | — | — | — | — | — |
| ISO | — | — | — | ✓ | — | — | — | — | — | — | — | — |
| □/⏱ | *1 | *1 | *1 | — | *1 | *1 | *1 | *1 | ✓ | *1 | *1 | *1 |
| Image size (still images) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Image size (movies) | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | ✓ | ✓ | ✓ | — | — | — | — | ✓ | ✓ | ✓ | — |
| AF Mode | ✓ | — | ✓ | *1 | *1 | — | ✓ | ✓ | ✓ | ✓ | ✓ | — |
| ESP/[•] | — | — | — | — | — | — | — | — | — | — | — | — |
| Digital Zoom | ✓ | ✓ | ✓ | ✓ | — | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Image Stabilizer | ✓ | ✓ | ✓ | — | — | *1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Remote Flash | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — |
| Rec View | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Super-Res Zoom | — | — | — | — | — | — | — | — | — | — | — | — |
| IS Movie Mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 🎙 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wind Noise Setting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

*1 Some functions cannot be set.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Picture Mode | — | — | — | — | — | — | — | — |
| Flash | *1 | *1 | *1 | *1 | *1 | *1 | *1 | — |
| Exposure Comp. | — | — | — | ✓ | ✓ | ✓ | ✓ | — |
| White balance | — | — | — | *1 | *1 | *1 | *1 | — |
| ISO | — | — | — | — | — | — | — | — |
| □/⏱ | *1 | *1 | *1 | ✓ | *1 | *1 | *1 | *1 |
| Image size (still images) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Image size (movies) | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — |
| AF Mode | ✓ | ✓ | ✓ | *1 | *1 | — | *1 | ✓ |
| ESP/[•] | — | — | — | — | — | — | — | — |
| Digital Zoom | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — |
| Image Stabilizer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Remote Flash | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rec View | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Super-Res Zoom | — | — | — | — | — | — | ✓ | — |
| IS Movie Mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 🎙 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wind Noise Setting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

*1 Some functions cannot be set.

# List of ART settings

| | ART1 | ART2 | ART3 | ART4 | ART5 | ART6 | ART7 | ART8 | ART9 | ART10 | ART11 | ART12 | ART13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Picture Mode | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Flash | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Exposure Comp. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| White balance | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ |
| ISO | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ▭/⏱ | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Image size (still images) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Image size (movies) | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 | *1 |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | — | — | — | — | — | — | — | — | — | — | — | — | — |
| AF Mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ESP/[•] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Digital Zoom | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Image Stabilizer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Remote Flash | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rec View | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Super-Res Zoom | — | — | — | — | — | — | — | — | — | — | — | — | — |
| IS Movie Mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 🎙 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wind Noise Setting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

*1 Some functions cannot be set.

ART1 Pop Art
ART2 Soft Focus
ART3 Pale&Light Color
ART4 Light Tone
ART5 Grainy Film
ART6 Pin Hole
ART7 Diorama
ART8 Cross Process
ART9 Gentle Sepia
ART10 Dramatic Tone
ART11 Key Line
ART12 Watercolor
ART13 Vintage

# List of 🎥 settings

| | | | | | |
|---|---|---|---|---|---|
| Picture Mode | — | — | — | — | — |
| Flash | *1 | *1 | *1 | — | *1 |
| Exposure Comp. | — | — | — | — | ✓ |
| White balance | — | — | — | — | *1 |
| ISO | — | — | — | — | — |
| ▭/⏱ | *1 | *1 | *1 | *1 | *1 |
| Image size (still images) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aspect | ✓ | ✓ | ✓ | ✓ | ✓ |
| Image size (movies) | *1 | *1 | *1 | *1 | *1 |
| Compression | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shadow Adjust | ✓ | ✓ | — | — | ✓ |
| AF Mode | — | — | — | — | — |
| ESP/[•] | — | — | — | — | — |
| Digital Zoom | — | — | — | — | — |
| Image Stabilizer | ✓ | ✓ | *1 | ✓ | ✓ |
| Remote Flash | ✓ | ✓ | ✓ | ✓ | ✓ |
| AF Illuminator | ✓ | ✓ | ✓ | ✓ | ✓ |
| Rec View | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pic Orientation | ✓ | ✓ | ✓ | ✓ | ✓ |
| Date Stamp | ✓ | ✓ | ✓ | ✓ | ✓ |
| Super-Res Zoom | — | — | — | — | — |
| IS Movie Mode | ✓ | ✓ | ✓ | ✓ | ✓ |
| 🎤 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wind Noise Setting | ✓ | ✓ | ✓ | ✓ | ✓ |

*1 Some functions cannot be set.

# SAFETY PRECAUTIONS

**CAUTION**

**RISK OF ELECTRIC SHOCK**
**DO NOT OPEN**

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

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

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

**⚠ CAUTION** If the product is used without observing the information given under this symbol, injury may result.

**⚠ NOTICE** If the product is used without observing the information given under this symbol, damage to the equipment may result.

**WARNING!**
**TO AVOID THE RISK OF FIRE OR ELECTRICAL SHOCK, NEVER DISASSEMBLE THIS PRODUCT.**

## General Precautions

**Read All Instructions** — Before you use the product, read all operating instructions. Save all manuals and documentation for future reference.
**Water and Moisture** — For precautions on products with weatherproof designs, read the weatherproofing sections.
**Power Source** — Connect this product only to the power source described on the product label.
**Foreign Objects** — To avoid personal injury, never insert a metal object into the product.
**Cleaning** — Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.
**Heat** — Never use or store this product near any heat source such as a radiator, heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.
**Lightning —** If a lightning storm occurs while using a USB-AC adapter, remove it from the wall outlet immediately.
**Attachments** — For your safety, and to avoid damaging the product, use only accessories recommended by Olympus.
**Location** — To avoid damage to the product, mount the product securely on a stable tripod, stand, or bracket.

### ⚠ WARNING

- **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.
- **To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.**
- **If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.**
- **If you cannot remove the battery from the camera, contact an authorized distributor or service center.**
  Do not try to remove the battery by force.
  Damage to the battery exterior (scratches, etc.) may produce heat or an explosion.
- **Always store batteries out of the reach of small children and pets. If they accidentally swallow a battery, seek medical attention immediately.**
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use batteries with scratches or damage to the casing, and do not scratch the battery.
- Never subject batteries to strong shocks or continuous vibration by dropping or hitting.
  This may cause exploding, overheating, or burning.
- If a battery leaks, has unusual odor, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera, and keep away from fire immediately.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- The Olympus lithium ion battery is designed to be used only for the Olympus digital camera. Do not use the battery to other devices.
- **Do not allow children or animals/pets to handle or transport batteries (prevent dangerous behaviour such as licking, putting in mouth or chewing).**
- **Do not use the camera near flammable or explosive gases.**
- **Do not use the flash and LED (including AF illuminator) on people (infants, small children, etc.) at close range.**
  - You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.
- **Do not look at the sun or strong lights with the camera.**
- **Keep young children, infants away from the camera.**
  - Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
    - Becoming entangled in the camera strap, causing strangulation.
    - Accidentally swallowing the battery, cards or other small parts.
    - Accidentally firing the flash into their own eyes or those of another child.
    - Accidentally being injured by the moving parts of the camera.
- **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.**
- **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.
- **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.

- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
  - Places where temperatures and/or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
  - In sandy or dusty environments.
  - Near flammable items or explosives.
  - In wet places, such as bathrooms or in the rain. When using products with weatherproof designs, read their manuals as well.
  - In places prone to strong vibrations.

### 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.

## ⚠ CAUTION

- **Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.**
- Keep batteries dry at all times.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- This camera uses one Olympus lithium ion battery. Use the specified genuine battery.
  There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.
- **Do not cover the flash with a hand while firing.**
- The included USB-AC adapter F-5AC 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-5AC to equipment other than this camera.

## ⚠ NOTICE

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

- **Use SD/SDHC/SDXC memory cards or Eye-Fi cards only. Never use other types of cards.**

  If you accidently insert another type of card into the camera, contact an authorized distributor or service center. Do not try to remove the card by force.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects and cause serious damage.
- Never drop the camera or subject it to severe shocks or vibrations.
- When attaching the camera to or removing it from a tripod, rotate the tripod screw, not the camera.
- Before transporting the camera, remove a tripod and all other non-OLYMPUS accessories.
- Do not touch electric contacts on cameras.
- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the image pickup device, or may possibly cause fires.
- Do not push or pull severely on the lens.
- Before storing the camera for a long period, remove the batteries. Select a cool, dry location for storage to prevent condensation or mold from forming inside the camera. After storage, test the camera by turning it on and pressing the shutter button to make sure that it is operating normally.
- The camera may malfunction if it is used in a location where it is subject to a magnetic/electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the camera off and on again before further operation.
- Always observe the operating environment restrictions described in the camera's manual.
- Plug-in USB adapters: Orient the supplied F-5AC plug-in USB AC adapter vertically with respect to the wall socket, or horizontally with respect to the floor.

## Using the wireless LAN function

- **Turn off the camera in hospitals and other locations where medical equipment is present.**

  The radio waves from the camera may adversely affect medical equipment, causing a malfunction that results in an accident.
- **Turn off the camera when onboard aircraft.**

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

## Precautions when using the wireless LAN function

If using the wireless LAN function in a country outside the region where the camera was purchased, there is a risk that the camera will not conform to the wireless communication regulations of that country. Olympus will not be held responsible for any failure to meet such regulations.

## GPS function, electronic compass

- In a location not open to the sky (inside, underground, underwater, in a forest, near high buildings) or in a location subject to strong magnetic or electric fields (near new high-voltage power lines, magnets or electrical goods, 1.5GHz mobile telephones), it may not be possible to determine measurements or generate errors.
- The altitude displayed on the measurement information screen or picture playback screen etc. is displayed/recorded based on information from pressure sensors built into camera body. Be careful since the displayed altitude is not based on GPS position measurements.
- Electronic compass errors may be caused by the effects of strong magnetic or electrical fields (such as televisions, microwaves, large motors, radio towers and high-voltage lines). To restore the electronic compass function, hold the camera firmly and move in a figure of 8 while turning your wrist over.
- Since the GPS is not required to be accurate, there is no guarantee that the measured values (latitude, longitude, compass direction etc.) are accurate.

## Monitor

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

## Legal and Other Notices

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

## Disclaimer of Warranty

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

## Warning

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

## Copyright Notice

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

## FCC Notice

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

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

## FCC/IC Caution

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

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

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. STYLUS TG-870 has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.

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

Declaration of Conformity

| | |
|---|---|
| Model Number: | STYLUS TG-870 |
| Trade Name: | OLYMPUS |
| Responsible Party: | OLYMPUS AMERICA INC. |
| Address: | 3500 Corporate Parkway,<br>P.O. Box 610, Center Valley,<br>PA 18034-0610, U.S.A. |
| Telephone Number: | 484-896-5000 |

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

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

### OLYMPUS AMERICAS LIMITED WARRANTY - OLYMPUS AMERICA INC. PRODUCTS

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

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

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

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

Repair or replacement of a Product shall not extend the warranty period provided herein, unless required by law. Except where prohibited by law, the customer is liable and shall pay for shipment of the Products to the designated Olympus Repair Service Center.

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

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

## WHAT IS NOT COVERED BY THIS LIMITED WARRANTY

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

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

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

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 CONDITON OF THE PRODUCTS (OR ANY PART THEREOF) OR THE MERCHANTABILITY OF THE PRODUCTS OR THEIR FITNESS FOR A PARTICULAR PURPOSE, OR RELATING TO THE INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHT USED OR INCLUDED THEREIN.

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

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

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

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

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

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

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

## WHAT TO DO WHEN SERVICE IS NEEDED

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

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

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

Latin America:
www.olympusamericalatina.com

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

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

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

When sending Products for repair service, your package should include the following:
1) Sales receipt showing date and place of purchase. Handwritten receipts will not be accepted;
2) Copy of this limited warranty **bearing the Product serial number corresponding to the serial number on the Product** (unless it is a model on which Olympus does not place and record serial numbers);
3) A detailed description of the problem; and
4) Sample prints, negatives, digital prints (or files on disk) if available and related to the problem.

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

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

## PRIVACY

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

### For customers in Mexico

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

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

### For customers in Europe

“CE” mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. “CE” mark cameras are intended for sales in Europe.
Hereby, OLYMPUS CORPORATION and Olympus Europa SE & Co. KG declare that this STYLUS TG-870 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details visit: http://www.olympus-europa.com/

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.
Please do not throw the equipment into the domestic refuse.
Please use the return and collection systems available in your country for the disposal of this product.

This symbol [crossed-out wheeled bin Directive 2006/66/EC Annex II] indicates separate collection of waste batteries in the EU countries.
Please do not throw the batteries into the domestic refuse.
Please use the return and collection systems available in your country for the disposal of the waste batteries.

**Provisions of warranty**

In the unlikely event that your product proves to be defective, although it has been used properly (in accordance with the written Instruction Manual supplied with it), during the applicable national warranty period and has been purchased from an authorized Olympus distributor within the business area of OLYMPUS EUROPA SE & Co. KG as stipulated on the website: http://www.olympus-europa.com, it will be repaired, or at Olympus's option replaced, free of charge. In order to enable Olympus to provide you with the requested warranty services to your full satisfaction and as fast as possible, please note the information and instructions listed below:

1. To claim under this warranty please follow the instructions on http://consumer-service.olympus-europa.com for registration and tracking (this service is not available in all countries) or take the product, the corresponding original invoice or purchase receipt and the completed Warranty Certificate to the dealer where it was purchased or any other Olympus service station within the business area of OLYMPUS EUROPA SE & Co. KG as stipulated on the website: http://www.olympus-europa.com, before the end of the applicable national warranty period.
2. Please make sure your Warranty Certificate is duly completed by Olympus or an authorized dealer or Service center. Therefore, please make sure that your name, the name of the dealer, the serial number and the year, month and date of purchase are all completed or the original invoice or the sales receipt (indicating the dealer's name, the date of purchase and product type) is attached to your Warranty Certificate.
3. Since this Warranty Certificate will not be re-issued, keep it in a safe place.
4. Please note that Olympus will not assume any risks or bear any costs incurred in transporting the product to the dealer or Olympus authorized service station.
5. This Warranty does not cover the following and you will be required to pay a repair charge, even for defects occurring within the warranty period referred to above.
   a. Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Instruction Manual, etc.)
   b. Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.
   c. Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
   d. Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.
   e. Any defect that occurs due to careless or improper storage (such as keeping the product under conditions of high temperature and humidity, near insect repellents such as naphthalene or harmful drugs, etc.), improper maintenance, etc.
   f. Any defect that occurs due to exhausted batteries, etc.
   g. Any defect that occurs due to sand, mud, water etc. entering the inside of the product casing.
6. Olympus's sole liability under this Warranty shall be limited to repairing or replacing the product. Any liability under the Warranty for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect of the product, and in particular any loss or damage caused to any lenses, films, other equipment or accessories used with the product or for any loss resulting from a delay in repair or loss of data, is excluded. Compelling regulations by law remain unaffected by this.

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

### Notes 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 only in the country the product was purchased. 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.

### For customers in Thailand

This telecommunication equipment is in compliance with NTC requirements.

### For customer in Singapore

Complies with
IDA Standards
DB104634

**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.

## Trademarks

- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Inc.
- SDXC logo is a trademark of SD-3C, LLC.

- Eye-Fi is a registered trademark of Eye-Fi, Inc.

- Wi-Fi is a registered trademark of the Wi-Fi Alliance.
- The Wi-Fi CERTIFIED logo is a certification mark of the Wi-Fi Alliance.

- Apical logo is a registered trademark of Apical Limited.

- All other company and product names are registered trademarks and/or trademarks of their respective owners.

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NONCOMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD (“AVC VIDEO”) AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE HTTP://WWW.MPEGLA.COM

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/imsg/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) (maximum capacity: 128 GB)/Eye-Fi card |
| **Total no. of pixels** | : | Approx. 16.8 million |
| **No. of effective pixels** | : | 16 million |
| **Image pickup device** | : | 1/2.3” CMOS (primary color filter) |
| **Lens** | : | Olympus lens 3.74 to 18.7 mm, f3.5 to 5.7 (Equivalent to 21 to 105 mm on a 35 mm film) |
| **Photometric system** | : | Digital ESP metering, spot metering system |
| **Shutter speed** | : | 4 to 1/2000 sec. |
| **Shooting range** | | |
| **Normal** | : | 0.1 m (0.3 ft.) to ∞ (W/T) |
| **Super macro mode** | : | 0.01 m (0.03 ft.) to 0.1 m (0.3 ft.) (f=4.24 to 8.7 mm) |
| **Monitor** | : | 3.0” TFT color LCD display, 920,000 dots, Movable |
| **Connector** | : | Multi-connector (DC-IN jack, USB connector, A/V OUT jack)/HDMI micro connector (type D) |
| **Automatic calendar system** | : | 2000 up to 2099 |
| **Water resistance** | | |
| **Type** | : | Equivalent to IEC 60529 IPX8 (under OLYMPUS test conditions), available in 15 m (49.2 ft.) deep water |
| **Meaning** | : | Camera can normally be used under water at a specified water pressure. |
| **Dust resistance** | : | IEC 60529 IP6X (under OLYMPUS test conditions) |

| | | |
|---|---|---|
| **Wi-Fi standard** | : | IEEE802.11b/g/n |
| **GPS** | | |
| **Reception frequency** | : | 1575.42 MHz (GPS/ Quasi-Zenith Satellites System)<br>1598.0625 MHz to 1605.3750 MHz (GLONASS) |
| **Geodetic system** | : | WGS84 |
| **Operating environment** | | |
| **Temperature** | : | – 10 °C - 40 °C (14 °F - 104 °F) (operation)/<br>– 20 °C - 60 °C (– 4 °F - 140 °F) (storage) |
| **Humidity** | : | 30% - 90% (operation)/10% - 90% (storage) |
| **Power supply** | : | One Olympus lithium ion battery (LI-50B) or<br>USB-AC adapter (F-5AC) |
| **Dimensions** | : | 112.9 mm (W) × 64.1 mm (H) × 27.6 mm (D)<br>(4.4 × 2.5 × 1.1 in.) (excluding protrusions) |
| **Weight** | : | 221 g (7.8 oz) (including battery and card) |

### Lithium ion battery (LI-50B)

| | | |
|---|---|---|
| **Product type** | : | Lithium ion rechargeable battery |
| **Model No.** | : | LI-50BA/LI-50BB |
| **Standard voltage** | : | DC 3.7 V |
| **Standard capacity** | : | 925 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-5AC)

| | | |
|---|---|---|
| **Model No.** | : | F-5AC-1/F-5AC-2 |
| **Power requirements** | : | AC 100 to 240 V (50/60 Hz) |
| **Output** | : | DC 5 V, 1500 mA |
| **Operating environment** | | |
| **Temperature** | : | 0 °C to 40 °C (32 °F to 104 °F) (operation)/<br>-20 °C to 60 °C (-4 °F to 140 °F) (storage) |

Design and specifications subject to change without notice.
Please visit our website for the latest specification.

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HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

## OLYMPUS KOREA CO., LTD.

8F Olympus Tower A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, Korea. 135-509
http://www.olympus.co.kr Tel. 1544-3200

## OLYMPUS (MALAYSIA) Sdn Bhd

10-8, Menara 1 MK, Kompleks '1 Mont Kiara', No.1, Jalan Kiara, Mont Kiara, 50480
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E-mail: service.oml@olympus-ap.com
http://www.olympus.com.my

## OLYMPUS (Thailand) CO., LTD.

23/112 Sorachai Building, 27th Floor, Soi Sukhumvit 63 (Ekamai)
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Tel: 662 787 8200

date of issue 2015.11.

OLYMPUS

http://www.olympus.com/

## OLYMPUS AMERICA INC.

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

**Technical Support (U.S.A. / Canada)**
24/7 online automated help:
http://www.olympusamerica.com/support
Phone customer support:
Tel. 1-800-260-1625 (Toll-free)

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

## OLYMPUS EUROPA SE & CO. KG

Premises: Consumer Product Division
Wendenstrasse 14-18, 20097
Hamburg, Germany
Tel: +49 40-23 77 3-0 / Fax: +49 40-23 07 61

Goods delivery: Modul H, Willi-Bleicher 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, Czech Republic, Denmark, Finland, France, Germany, Luxemburg, Netherlands, Norway, Poland, Portugal, Russia, Spain, Sweden, Switzerland, United Kingdom.
* Please note some (mobile) phone services / provider do not permit access or request an additional prefix to +800 numbers.
For all not listed European Countries and in case that you can't get connected to the above mentioned number, please make use of the following CHARGED NUMBERS **+49 40 - 237 73 899**

## OLYMPUS (CHINA) CO., LTD.

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

**Customer Service Center:**

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

10F, K, Wah Centre, 1010 Huaihai Road(M), Xuhui District, Shanghai
Zip: 200031

## OLYMPUS HONG KONG AND CHINA LIMITED

Digital Camera Repair Centre
L4207, Office Tower, Langham Place, 8 Argyle Street, Mongkok, Kowloon, Hong Kong
Customer Hotline: +852-2376-2150 Fax: +852-2375-0630
E-mail: cs.ohc@olympus-ap.com
http://www.olympus.com.hk

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