

DIGITAL CAMERA

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.
- If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. For the latest information, please visit the Olympus website.

Indications used in this manual

The following symbols are used throughout this manual.

() Cau	Cautions Warns of operations that should be absolutely avoided. Also important information on factors which may lead to a malfunction or operational problems.	
🗭 Not	Notes Points to note when using the camera.	
Tips Useful information and hints that will help you get the most out of your camera.		
Reference pages describing details or related information.		

Unpack the box contents

The following items are included with the camera.

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



Camera



Strap





USB cable (CB-USB6)



- Computer software CD-ROM
- Instruction manual
- Warranty card

Lithium ion battery (BLS-50)

Lithium ion charger (BCS-5)

Automatic lens cap

The automatic lens cap is removable.

When attaching the conversion lens and the other lenses, remove the automatic lens cap.

- Removing
- · Attaching



Attach the lens cap so that the attaching mark \bullet turns up.

Names of parts



- ④ Sub dial^{∗1} (**〔**○).....P. 11, 20
- 5 Self-timer lamp/AF illuminator
-P. 30/P. 68 6 Control ring² (())
- P. 12, 17 20, 31, 70
- ⑦ Fn2 buttonP. 70
- 8 Lever..... P. 17 20, 31, 68
- 9 Lens
- 1 Built-in flashP. 28
- ^{*1} In this manual, the $(\bigcirc$ icon represents operations performed using the sub dial.
- ² In this manual, the () icon represents operations performed using the control ring.



Attaching the camera strap



Charging the battery

1 Charging the battery.

		Charging indicator
■ Charging i	ndicator	Direction indicating mark (▲)
Charging in progress	Lights orange	3 C Lithium ion battery
Charging complete	Off	
Charging error	Blinks orange	
(Charging time: Up to approximately 3.5 hours)		Lithium ion charger
 Cautions Unplug the charger when charging is complete. 		AC cable

1

Inserting and removing the battery and card

- **1** Follow Steps (1) and (2) to open the battery/card compartment cover.
 - Turn off the camera before opening the battery/ card compartment cover.

- **2** Insert the battery while sliding the battery lock knob in the direction of the arrow.
 - · Insert the battery as illustrated with the direction indicating mark toward the back side of the camera.
 - · 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.
 - · Always use SD/SDHC/SDXC cards or Eye-Fi card with this camera. Do not insert other types of memory cards. I "Using the card" (P. 100)
 - · Do not touch the metallic parts of the card directly.

To remove the card

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

- 4 Follow Steps 1 and 2 to close battery/ card compartment cover.
 - · When using the camera, be sure to close the battery/card compartment cover.

Battery/card compartment cover



Battery/card compartment lock



Direction indicating mark

Battery lock knob









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.

- **1** After turning the camera on with the **ON/OFF** button, select a language using $\Delta \nabla \triangleleft \triangleright$ and press the button.
- **2** Use $\Delta \nabla$ to select the year for [Y].
- 3 Press ▷ to save the setting for [Y].
- 4 As in Steps 2 and 3, use △ ▽ < ▷ to set [M] (month), [D] (day), [Time] (hours and minutes), and [Y/M/D] (date order), and then press the ⊛ button.</p>
 - For precise time setting, press the 🛞 button as the time signal strikes 00 seconds.
- - Use △ ∨ to turn daylight saving time ([Summer]) on or off.



Time

Ð

Time

Y/M/D

2014

Cancel MENU

2014

Cancel

Camera sleep operation

If no operations are performed for the time set, the camera enters "sleep" (stand-by) mode. In this mode, the monitor turns off and all actions are canceled. The camera activates again when you touch any button (the shutter button, rec.). The camera will turn off automatically if left in sleep mode for 5 minutes. Turn the camera on again before use.

1 Preparations for shooting

Taking photographs

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

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

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

3 Frame the shot.

The viewfinder turns on and the monitor turns off automatically when you put your eye to the viewfinder.

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



You can also shoot with viewing the back monitor. I "Shooting through the monitor" (P. 42)

Using the zoom

Turning the zoom lever adjusts the shooting range.



A Press the shutter button halfway down to focus.

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

5 To take the picture, gently press the

shutter button all the way down while being careful not to shake the camera.

Press halfway



Shutter speed Aperture value

Press the rest of the way down



- · If the display in the viewfinder looks blurry, look through the viewfinder and rotate the diopter adjustment dial (P. 5) until the display is in sharp focus.
- · You can also take photographs using the touch screen. ISP "Shooting using touch panel" (P. 43)

Turn on the camera.

Viewing photographs

Press the 🕨 button.

- · Your most recent photograph is displayed.
- Press $\triangleleft \triangleright$ or turn the sub dial to select an image.





Still image

Arrow pad

You can view later frames and earlier frames using the touch screen.

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

· In single-frame playback, turn the zoom lever to W for Index







Tap to display Index playback.
Slide your finger up to view the next page, down to view the previous page.

• Use $\land \bigtriangledown \triangleleft \lor$ to move the cursor.

Index display

plavback.

Use S or Cop to choose the number of images displayed.

• Turn the zoom lever to T for single-frame playback.

For single-frame playback, tap 🐨 until the current image is displayed full frame.

• Tap an image to view it full frame.

Close-up playback

- In single-frame playback, turn the zoom lever to T to zoom in up to 14×; turn to W to return to single-frame playback.
- You can also use the control ring to change the magnification strength.
- Use your finger to scroll the display when the picture is zoomed in.
- Double tap the screen for playback zoom.
- Slide the zoom bar to change the magnification strength.
- To return the first magnification, slide the zoom bar to the lowest position.

Erasing still images

Display an image you want to delete and press ∇ ($\mathbf{\overline{10}}$). Select [Yes] and press $\mathbf{\overline{10}}$.

Protecting images

Protect images from accidental deletion. Display an image you wish to protect and press the m button; a On (protect) icon will appear on the image. Press the m button again to remove protection.

⑦ Cautions

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

Erasing and protecting selected images

Select multiple pictures for protection or deletion. Press the \checkmark button to select the current picture. Selected pictures are marked with \checkmark . To remove \checkmark and deselect the picture, press the \checkmark button again.

Press is to display the delete or protect selection menu.

Setting a transfer order on images ([Share Order])

You can select images you want to transfer to a smartphone in advance. When playing back images you want to transfer, press \circledast to display the playback menu. After selecting [Share Order] and pressing \circledast , press Δ or ∇ to set a share order on an image and display **<**. To cancel a share order, press Δ or ∇ . You can select images you want to transfer in advance and set a share order all at once.

⑦ Cautions

· You can set a share order on 200 frames.









Recording movies

Turn on the camera.

- **1** Set the mode dial to **P**.
- 2 Press the
 button to begin recording.



3 Press the **()** button again to end recording.



- Recording time

 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.

Movie playback

Turn on the camera.

- **1** Press the **b**utton.
- 2 Press ⊲▷ or turn the sub dial to select the movie, and press the ⊛ button.
- 3 Select [Movie Play] and press ⊛ to begin playback.
 - Press the
 button to pause, and press the MENU button to end the playback.

Pausing

- Press the ⊲▷ to display previous frame or next frame.
- Press the △ ▽ to display the first frame or the last frame.
- Press the \circledast button to resume.

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







Monitor display during shooting



	<i>\$</i> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		-
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21	Number of storable still pictures		
22	Highlight&Shadow	P.	44
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	Bottom: Exposur Aperture Shutter s AEL C Mode Touch so Flash inti ISO sen AF mode Metering Flash mode Battery c (a III) Lit ti Zoom ba Magnific 35mm e Control n	Bottom: Exposure compensation indicator Exposure compensation value. Aperture value

Press the **INFO** button to choose the information displayed when shooting.



By changing the settings of [//Info Settings] (P. 68) in the custom menu, [Highlight&Shadow], [Level Gauge 1], and [Level Gauge 2] can be displayed.

Histogram display

Displays a histogram showing the distribution of brightness in the image. The horizontal axis gives the brightness, the vertical axis the number of pixels of each brightness in the image. Areas above the upper limit at shooting are displayed in red, those below the lower limit in blue, and the area metered using spot metering in green.

Monitor display during playback

Simplified display



① Battery check

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Overall display



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26	ISO sensitivityP. 40
27)	White balanceP. 34
28	Metering modeP. 38
29	HistogramP. 14

The INFO button can be used to choose the information displayed during playback.



Image only



Simplified display



Overall display

By changing the settings of [2]/Info Settings] (P. 68) in the custom menu, [2] and [Highlight&Shadow] can be displayed.



Using the shooting modes

List of shooting mode

Shooting mode	Sub mode
AUTO (iAUTO mode)	-
P (Program mode)	_
A (Aperture-priority mode)	_
S (Shutter-priority mode)	-
M (Manual mode)	-
C1 (Custom Mode 1)	-
C2 (Custom Mode 2)	-
(PHOTO STORY)	Standard/Fun Frames
SCN (Scene Mode)	
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

Selecting shooting mode

- **1** Turn the mode dial to set the shooting mode to the indicator.
- After selecting SCN or ART, select the sub mode. After selecting PHOTO STORY, select the theme. Moreover, you can modify filters and add effects in ART.



P program mode

In mode \mathbf{P} , the camera automatically adjusts shutter speed and aperture in response to subject brightness.

 The shutter speed and aperture displays flash if the camera is unable to achieve optimal exposure.



Shutter speed Aperture value

Warning display example (blinking)	Status	Action
	The subject is too dark.	Use the flash.
	The subject is too bright.	Use [ND Filter Setting]. IS "Using shooting options (Set by live control)" (P. 32)

Program shift (Ps)

You can choose different combinations of aperture value and shutter speed without altering exposure.

After setting the lever as the illustration shows, rotate the control ring for program shift.

- While **Ps** is displayed, the camera is performing program shift.
- To cancel program shift, rotate the control ring backwards until ${\bm P}$ is displayed.
- Program shift is not available when you are using a flash.





Program shift

A aperture-priority mode

In mode **A**, you choose the aperture and let the camera automatically adjust shutter speed for optimal exposure. You can express the depth of field, and blur the background intentionally.

• Larger apertures (lower F-numbers) decrease depth of field (the area in front of or behind the focus point that appears to be in focus), softening background details. Smaller apertures (higher F-numbers) increase depth of field.



Aperture value

After setting the lever as the illustration shows, rotate the control ring to set the aperture value.

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



Shooting using basic functions	ac
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ions	

6

Warning display example (blinking)	Status	Action
	The subject is underexposed.	Decrease the aperture value.
-2000 -F5.6	The subject is overexposed.	Use [ND Filter Setting]. "General stress of the set of

Lower aperture value	F2.8 ← F5.6 → F8.0	Higher aperture value
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In mode ${\bf S},$ you choose the shutter speed and let the camera automatically adjust aperture for optimal exposure. You can shoot a fast action scene without any blur, and shoot with impression of dynamic motion.

After setting the lever as the illustration shows, rotate the control ring to set the shutter speed.

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



Shutter speed



Warning display example (blinking)	Status	Action
2000-)F2.8 -	The subject is underexposed.	Set the shutter speed slower.
	The subject is overexposed.	Use [ND Filter Setting]. IS "Using shooting options (Set by live control)" (P. 32) Otherwise, set the shutter speed faster.

M manual mode

In mode \mathbf{M} , you choose both the aperture and the shutter speed. At a speed of BULB, the shutter remains open while the shutter button is pressed.

After setting the lever as the illustration shows, rotate the control ring to set the shutter speed, and rotate the sub dial to set the aperture value.

- Use the exposure compensation indicator to view the exposure difference between suitable exposure and the exposure derived from set aperture value and shutter speed.
- The shutter speed can be set to 1/2000-60 sec. or [BULB].
- You can change the functions assigned to the control ring and the sub dial. I T "* Custom Menu" (P. 68)

⑦ Cautions

• Exposure compensation is not available in **M** mode.





Shutter speed

Exposure compensation indicator

Choosing when the exposure ends (bulb)

You can take a picture with a bulb exposure time in which the shutter stays open as long as you hold down the shutter button. Time the end of the exposure to suit the subject. Use for night landscapes and fireworks. In \mathbf{M} mode, set the shutter speed to [BULB].

⑦ Cautions

- · Maximum 15 minutes (default)
- · The maximum exposure time of bulb shooting depends on ISO sensitivity.
- To reduce camera shake for bulb shooting, mounting the camera on a stable tripod or using a remote cable (sold separately) is recommended.
- The following features are not available during long exposures: Sequential shooting/self-timer shooting/AE bracket shooting/image stabilizer/ flash bracketing.

Noise in images

While shooting at slow shutter speeds, noise may appear on-screen. These phenomena are caused when current is generated in those sections of the image pickup device that are not normally exposed to light, resulting in a rise in temperature in the image pickup device or image pickup device drive circuit. This can also occur when shooting with a high ISO setting in a high-temperature environment. To reduce this noise, the camera activates the noise reduction function.

ART art filters

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

- 1 Rotate the mode dial to ART.
- **2** Use $\Delta \nabla$ to select a sub mode and press the $\textcircled{}{\otimes}$ button at the end.
 - Press the
 w button once again to display the sub mode selection screen.

Selecting modifying filters, adding effects

Press \triangleright before selecting a sub mode and press the button for the selecting modifying filters screen and the adding effects screen.

Selecting modifying filters

After pressing \triangleright once again, use $\Delta \nabla$ to select modifying filters and press the button at the end.

Adding effects

After pressing ∇ and \triangleright , use $\Delta \nabla$ to select the adding effects and press the \circledast button at the end.

SCN scene mode

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

- **1** Rotate the mode dial to **SCN**.
- Use △∇ to select a sub mode and press the w button at the end.
 - Press the is button once again to display the sub mode selection screen.

⑦ Cautions

- In [e-Portrait] mode, two images are recorded: an unmodified image and a second image to which [e-Portrait] effects have been applied. The unmodified image is recorded using the option currently selected for image quality, the modified copy at an image quality of JPEG (III)-quality (2560 × 1920)).
- · Effects of some scene modes are not applied in recording movies.



Pop Art

ART 1

[A^R]

ART.



Taking pictures for a panorama

If you have installed the supplied computer software, you can use it to join pictures together to form a panorama. 🕼 "Installing Software" (P. 86)

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



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



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

⑦ Cautions

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

🕑 Notes

Shooting automatically with a fixed interval (time lapse shooting)

You can set the camera to shoot automatically with a set time lapse. The shot frames can also be recorded as into a single movie. Before starting interval timer photography, use the [Interval Shooting] option in Shooting Menu 2 (P. 53) to choose the interval and number of shots. See "Setting shooting functions" (P. 46) for information on using the shooting menu.

- **1** Rotate the mode dial to **SCN**.
- **2** Use $\Delta \nabla$ to select [Interval Shooting] and press \bigotimes .
- 3 Shoot.
 - · Frames are shot even if the image is not in focus after AF.
 - [Rec View] (P. 61) operates for 0.5 seconds.
 - If a value of 1 minute 31 seconds or higher is selected for [Start Waiting Time] or [Interval Time], the monitor will turn off after 1 minute and the camera will enter sleep mode. The camera will automatically reactivate 10 seconds before a shot is taken. You can also reactivate the camera by pressing the **ON/OFF** button while the monitor is off.

⑦ Cautions

- · During interval timer photography:
 - The camera focuses using [S-AF] autofocus
 - Sequential shooting can not be used
 - Touch-screen controls are not available
 - Bulb photography and bracketing can not be used
- Depending on the time needed to charge the flash or process pictures after shooting, photographs may be taken at intervals longer than selected.
- If the camera automatically turns off in interval between shots, it will turn on in time for the next shot.
- If the any of the still pictures are not recorded correctly, the time lapse movie will not be generated.
- If there is insufficient space on the card, the time lapse movie will not be recorded.
- The following end interval timer photography: Rotating the mode dial / Pressing the MENU or button / Connecting a USB cable
- If you turn off the camera, time lapse shooting will be cancelled.
- If there is not enough charge left on the battery, the shooting may end partway through. Make sure the battery is suitably charged before starting.

PHOTO STORY

When shooting, an image is incorporated into a layout frame set to create a desired collage. This enables wide range of photo expression with themes or stories.



Rotate the mode dial to







- **2** Select a theme using $\Delta \nabla$ and press \triangleright .
 - Types of theme
 - 1 Standard
 - Fun Frames
- **3** Select desired items in the theme using $\Delta \nabla \triangleleft \triangleright$, then press \circledast .
 - Press the shutter button halfway to return to the shooting screen.



4 Tap a frame in standby mode to shoot.



- Tap the frame when the subject is not displayed in a frame.
- **5** Shoot each frame in the same way.
 - Shot images are displayed in the frames.
 - Touch any framed image and then D while is displayed, so that the image is canceled, and you can retake the shot.
 - Press the MENU button and select [Exit] not to save the picture and restart shooting again.
- **6** After shooting all frames, press **O**K and save the picture.

⑦ Cautions

- When changing a shooting mode in the middle of shooting, the picture will not be saved.
- An image is saved as one photo collage. When set to RAW+JPEG option, RAW images are saved per frame.

C1/C2 custom mode

You can shoot with the preselected settings which you registered.

• You can register different settings in **C1** and **C2**. For the registration, refer to (P. 47). Set the mode dial to **C1** or **C2** to use.

HAUTO 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.

Set the mode dial to **FAUTO** to use.

- In FAUTO, you can shoot with [Live Guide] in which the set effect is visible in the display like "Color Saturation", "Color Image", "Brightness", "Blur Background", and "Express Motions". You can shoot easily without using any term.
 - * You can use [Live Guide] only in FAUTO.

Using live guides

When the shooting mode is set to HAUTO

 Touch the tab and swipe your finger to the left to display live guides.



Change Color Saturation



- **2** Select and touch the guide item.
 - The guide items indicates [Saturation], [Color], [Brightness], [Blurring background], [Motion], and [Shooting Tips] from the top.
 - In [Shooting Tips], the adding effects is unavailable.
- 3 Using your finger to position the sliders, press the ⊛ button to confirm the setting.



- To clear the live guide from the display, press the **MENU** button.
- · Changing the shooting mode or an playback also cancels the settings.

Shooting using basic functions

⑦ Cautions

- If [RAW] is currently selected for image quality, image quality will automatically be set to [IN+RAW].
- Live guide settings other than [Blur Background] and [Express Motions] are not applied to the RAW copy.
- [Blur Background] and [Express Motions] settings are not applied to movie recording.
- Pictures may appear grainy at some live guide setting levels.
- Changes to live guide setting levels may not be visible in the monitor.
- · The flash can not be used with the live guide.
- · Changes to live guide options cancel previous changes.
- Choosing live guide settings that exceed the limits of the camera exposure meters may
 result in pictures that are over- or under-exposed.



Press the direct button, is button, or **MENU** button to use various functions.

⑦ Cautions

Some items are not available in some shooting modes.
 IS "List of settings available in each shooting mode" (P. 107)

Using shooting options (Set by direct button)

Flash

You can use a flash when shooting.

- **1** Press the flash switch to pop up the flash unit.
- **2** Press the **4** button (▷) to display options.
- 3 Use ⊲⊳ to choose a flash mode and press ⊛.



\$ AUTO	Auto flash	The flash fires automatically in low light or backlight conditions.
۲	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.
٤	Flash off	The flash does not fire.
©*1 SLOW	Slow synchronization/ Red-eye reduction flash	Combines slow synchronization with red- eye reduction.
\$SLOW*1	Slow synchronization	Slow shutter speeds are used to brighten dimly-lit backgrounds.
\$FULL , \$1/4 , etc.	Manual	For users who prefer manual operation.

*1 Mode **P** and **A** only.

4 Press the shutter button all the way.

- In [①](Red-eye reduction flash), after the pre-flashes, it takes about 1 second before the shutter is released. Do not move the camera until shooting is complete.
- [1](Red-eye reduction flash) may not work effectively under some shooting conditions.
- **\$ AUTO**, **(\$)** can be set in **FAUTO** mode.
- · The lens may cast shadows over objects close to the camera, causing vignetting, or be too bright even at minimum output.
- To prevent photographs from being overexposed, select mode **A** or **M** and choose a high f-number, or reduce ISO sensitivity.

Exposure compensation

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

- Rotate the sub dial for the exposure compensation.
 - Pressing the $\triangleleft \triangleright$ button after pressing the +/- button (\triangle) can also perform the adjustment.
 - · Choose positive ("+") values to make pictures brighter, negative ("-") values to make pictures darker.



No compensation (0)

Positive (+)

2 Shoot.

Self timer

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

- **1** Press the $\Box_{i} \diamond$ button (∇) to display the direct menu.
- **2** Select $[(\delta)$ 12s], $[(\delta)$ 2s] or $[(\delta)$ C] using $\triangleleft \triangleright$ and press the \bowtie button.

ئ12s	Self-timer 12 SEC	Press the shutter button halfway to focus, the rest of the way down to start the timer. First, the self-timer lamp lights up for approximately 10 seconds, then it blinks for approximately 2 seconds and the picture is taken.
Self-timer 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.		way down to start the timer. The self-timer lamp blinks for
స్ర _C Self-timer Custom		Photographs are taken at "the number of frames, the time after the shutter button is pressed until the picture is taken, and the interval time" set in the shooting menu.

- To cancel the activated self-timer, press the U(3) button.
- · Fix the camera securely on a tripod for self-timer shooting.
- If you stand in front of the camera to press the shutter button halfway when using the selftimer, the photograph may be out of focus.
- Self timer is not canceled automatically after shooting.

Single/Sequential

- **1** Press the \Box \diamond button (∇) to display the direct menu.
- **2** Select $[\Box]$ or $[\Box]$ using $\triangleleft \triangleright$ and press the \odot button.

Single-frame shooting	Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode).
☐ Sequential shooting	Photographs are taken at about 7 frames per second (fps) while the shutter button is pressed all the way down.

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

Bracketing (BKT)

While the shutter button is pressed all the way down, photographs are taken with automatically changing the settings for each frame (bracket photography).

- **1** Press the \Box_{i} button (∇) to display the direct menu.
- **2** Select [Bracketing] using $\triangleleft \triangleright$ and press the \odot button.
- Bracketing is available only when [Bracketing] (P. 51) is selected.

AF target

You can select the focus target manually. Normally the camera automatically chooses from the 35 of focus targets.

- **1** Press the **[···]** button (\triangleleft) to display the AF target.
- **2** Use $\Delta \nabla \triangleleft \triangleright$ to move the green border to the focus point.

All Targets



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

Single Target



Select the focus target manually.

- When you move the cursor off the screen, "All targets" mode is restored and the camera automatically chooses from the 35 of focus targets.
- While using the digital tele-converter, AF targets decrease to 9 targets.

Small and Group Targets

To choose the target type, press the **INFO** button while AF targets are displayed.

Group target

Select 9 targets from all 35 of them, and let the camera automatically choose from the targets in the selected area. (According the area, select 6 or 4 targets.)

- **1** Press the **[**•••] button (**⊲**) to display the AF target.
- **2** Press the **INFO** button and use $\Delta \nabla$ to select group target display.
- **3** Press the (w) button to select group target mode.
- **4** Use $\Delta \nabla \triangleleft \triangleright$ to select a target group.
 - · The camera automatically chooses from the targets in the selected group.

Small target

Select the focus point using targets smaller than the single target (P. 30).

- **1** Press the **[**•••] button (**⊲**) to display the AF target.
- **2** Press the **INFO** button and use $\Delta \nabla$ to select small target display.
- **3** Press the (iii) button to select small target mode.
- **4** Use $\Delta \nabla \triangleleft \triangleright$ to move the green border to the focus point.

Manual focus (MF)

This function allows you to manually focus on any subject.

After setting the lever as the illustration shows. rotate the control ring.













Using shooting options (Set by live control)

In P, A, S and M modes, after pressing the induction be used to adjust settings. Using live control allows you to preview the effects of different settings in the monitor.

Available settings

Image stabilizer	P. 33
Picture mode	P. 33
White balance	P. 34
Sequential shooting/self-timer	P. 30/P. 29
Aspect Ratio	P. 36
Record mode	P. 36
Flash mode	P. 28

Flash intensity control		
Metering mode	P. 38	
AF mode	P. 39	
ISO sensitivity	P. 40	
Face priority	P. 40	
ND Filter Setting	P. 41	

- Press (in) to display the live control. • To hide the live control, press @ again.
- **2** Use $\Delta \nabla$ on the arrow pad to select settings, use $\triangleleft \triangleright$ to change the selected setting, and press (%).
 - · The selected settings take effect automatically if no operations are performed for about 8 seconds.

Selection

Displays the selected function name Function Arrow Å. pad $(\Delta \nabla)$ 4:3 ٦P WE HD 0 Arrow pad $(\triangleleft \triangleright)$

(!) Cautions

· Some items are not available in some shooting modes. List of settings available in each shooting mode" (P. 107)

Image Stabilizer

Select [ON] to reduce camera shake that can occur when shooting in low light situations or shooting with high magnification.

- **1** Press the \circledast button to display the live control, and select the image stabilizer (IS) item using $\Delta \nabla$.
- **2** Select [ON] with $\triangleleft \triangleright$ and press \circledast .



- The image stabilizer cannot correct excessive camera shake or camera shake that occurs when the shutter speed is set to the slowest speed. In these cases, it is recommended that you use a tripod.
- When using a tripod, set [Image Stabilizer] to [Off].

Picture Mode

Change a picture mode. When the mode dial is set to SCN, ART, HAUTO, and **II**, the mode cannot be set.

1 Press the B button to display the live control, and select the picture mode item (S) using $\Delta \nabla$.



A	i-Enhance	Produces more impressive-looking results suited to the scene.	
2	Vivid	Produces vivid colors.	
₃ Natural		Produces natural colors.	
4	Muted	Produces flat tones.	
5	Portrait	Produces beautiful skin tones.	
Μ	Monotone	Produces black and white tone.	
(ART)	Pop Art		
APT_2	Soft Focus		
A ₽Ţ	Pale&Light Color		
ART4	Light Tone		
ART5	Grainy Film		
APT 6	Pin Hole	Choose an art filter and select the desired effect.	
ART.	Diorama		
APT8	Cross Process		
AR [™]	Gentle Sepia		
ART0	Dramatic Tone		
APT	Key Line		

4

White Balance

White balance (WB) ensures that white objects in images recorded by the camera appear white. [AUTO] is suitable in most circumstances, but other values can be selected according to the light source when [AUTO] fails to produce the desired results or you wish to introduce a deliberate color cast into your images.

- **1** Press the \circledast button to display the live control, and select the white balance item using $\Delta \nabla$.
- **2** Select an option using $\triangleleft \triangleright$ and press \circledast .



WB mode		Color temperature	Light conditions
Auto white balance	Αυτο	_	Used for most light conditions (when there is a white portion framed on the monitor). Use this mode for general use.
Preset	渁	5300K	For shooting outdoors on a clear day, or to capture the reds in a sunset or the colors in a fireworks display
	Î	7500K	For shooting outdoors in the shadows on a clear day
balance	ප	6000K	For shooting outdoors on a cloudy day
	- <u>Å</u> -	3000K	For shooting under a tungsten light
		4000K	For subjects lit by fluorescent lights
	WB ʻ z	5500K	For flash shooting
One-touch white balance	<u>₽</u> 2¶	Color temperature	Choose when a white or gray subject can be used to measure white balance and the subject
	2 22	set by one- touch WB.	is under mixed lighting or lit by an unknown type of flash or other light source.
Custom white balance	СМВ	2000K– 14000K	After pressing the INFO button, use ⊲⊳ buttons to select a color temperature and then press ⊛.

One-touch white balance

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

- 1 Select [♣] or [♣] (one-touch white balance 1 or 2) and press the INFO button.
- **2** Photograph a piece of colorless (white or gray) paper.
 - · Frame the object so that it fills the display and no shadows fall it.
 - The one-touch white balance screen appears.

- The new value is saved as a preset white balance option.
- The new value is stored until one-touch white balance is recorded again. Turning the power off does not erase the data.



 If the subject is too bright or too dark or visibly tinted, the message [WB NG Retry] will be displayed and no value will be recorded. Correct the problem and repeat the process from Step 1.

Image Aspect

You can change the aspect ratio (horizontal-to-vertical ratio) when taking pictures. Depending on your preference, you can set the aspect ratio to [4:3] (standard), [16:9], [3:2] or [1:1].

- **1** Press the \bigotimes button to display the live control, and select the aspect ratio item using $\Delta \nabla$.
- **2** Use $\triangleleft \triangleright$ to select an aspect ratio and press \odot .

⑦ Cautions

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

Record Mode

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

- **1** Press the \circledast button to display the live control, and select a record mode for photographs or movies using $\Delta \nabla$.
- **2** Select an option using $\triangleleft \triangleright$ and press \circledast .



Record mode
Choose from RAW and JPEG (■F, ■N, ■N, and SN) modes. Choose a RAW+JPEG option to record both a RAW and a JPEG image with each shot. JPEG modes combine image size (■, ■, and S) and compression ratio (SF, F, N, and B). The options available can be selected using the [◄:- Set] option in the "♣ Custom Menu" (P. 68).

Image size		Compression rate					
Name	Pixel count	SF (Super Fine)	F (Fine)	N (Normal)	B (Basic)	Application	
L (Large)	3968×2976*	SF	CF*	N *	B		
	3200×2400	MSF	ME	MN*	МВ	Select for the print size	
	2560 × 1920*						
M (Middle)	1920×1440					print 3/20	
	1600×1200						
	1280×960*						For small
S (Small)	1024×768	SF	ßF	SF 🖸 F 🖾 N* 🖾 B		SIF SIN* SIB	prints and use
	640×480					on a website	

Default

RAW image data

This format (extension ".ORF") stores unprocessed image data for later processing. RAW image data cannot be viewed using other cameras or software, and RAW images cannot be selected for printing. JPEG copies of RAW images can be created using [Edit] in the "Using functions of playback menu" (P. 57).

Record modes (movies)

Record mode	Pixel count Frame rate		Recording length	
Full HD	1920×1080	30 fps	29 min	
HD	1280×720	30 fps	29 11111	
HS120*	640×480	120 fps	- 20 sec	
HS240*	320×240	240 fps		

 * HS: Record quickly moving subjects for slow-motion playback. Available in P/A/S/M mode.

⑦ Cautions

- Individual files can be up to 4 GB in size.
- Depending on the type of card used, recording may end before the maximum length is reached.

4

Flash Intensity Control

Flash output can be adjusted if you find that your subject to appears overexposed, or is underexposed even though the exposure in the rest of the frame is just right.

- **1** Press the B button to display the live control, and select the flash intensity control item using $\Delta \nabla$.
- **2** Choose the compensation value with $\triangleleft \triangleright$ and press \bigotimes .

Metering

Choose how the camera meters subject brightness.

- **1** Press the \circledast button to display the live control, and select the metering item using $\Delta \nabla$.
- **2** Select an option with $\triangleleft \triangleright$ and press \circledast .



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	ESP metering	The camera optimizes exposure for the current scene or (if an option other than [Off] is selected for $[\bigcirc$ Face Priority]) portrait subject. This mode is recommended for general use.	
0	Center weighted averaging metering	This metering mode provides the average metering between the subject and the background lighting, placing more weight on the subject at the center.	
O	Spot metering	Choose this option to meter a small area with the camera pointed at the object you wish to meter. Exposure will be adjusted according to the brightness at the metered point.	
СЭНI	Spot metering - highlight	Increases spot metering exposure. Ensures bright subjects appear bright.	
€ЭЅН	Spot metering - shadow	Lowers spot metering exposure. Ensures dark subjects appear dark.	



AF Mode

Select a focusing method (focus mode).

- **1** Press the \circledast button to display the live control, and select the AF mode item using $\Delta \nabla$.
- **2** Select an option with $\triangleleft \triangleright$ and press \circledast .
 - The selected AF mode is displayed on the monitor.



S-AF (single AF)	The camera focuses once when the shutter button is pressed halfway. When the focus is locked, a beep sounds, the AF target mark lights up. This mode is suitable for taking pictures of still subjects or subjects with limited movement.
Super Macro	You can focus from 5 cm away from the subject.
C-AF (continuous AF)	The camera repeats focusing while the shutter button remains pressed halfway. When the subject is in focus, the AF target mark lights up on the monitor and the beep sounds when the focus is locked at the first time. Even if the subject moves or you change the composition of the picture, the camera continues trying to focus.
C-AF+TR (AF tracking)	Press the shutter button halfway to focus; the camera then tracks and maintains focus on the current subject while the shutter button is held in this position. • The AF target is displayed in white if the camera can no longer track the subject. Release the shutter button and then frame the subject again and press the shutter button halfway.
MF (manual focus)	This function allows you to manually focus on any subject. Press and hold \textcircled{B} for a while, then focus on the subject with $\Delta \nabla$.

⑦ Cautions

- The flash and zoom are unavailable during super macro photography. The zoom is automatically adjusted.
- The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast.

Focus lock

If the camera is unable to focus on your chosen subject, select single target mode and use focus lock to focus on another subject at about the same distance.

- In [S-AF] mode, position the AF target over the subject and press the shutter button halfway.
 - · Check that the AF target mark has turned green.
 - · Focus locks while the shutter button is pressed halfway.
- **2** Keeping the shutter button pressed halfway, recompose the photograph and then press the shutter button the rest of the way down.
 - Do not change the distance between the camera and the subject while pressing the shutter button halfway.

ISO

Increasing ISO sensitivity increases noise (graininess) but allows photographs to be taken when lighting is poor. The setting recommended in most situations is [AUTO], which adjusts ISO sensitivity according to shooting conditions.

- **1** Press the \bigotimes button to display the live control, and select the ISO sensitivity item using $\Delta \nabla$.
- **2** Select an option using $\triangleleft \triangleright$ and press \circledast .

AUTO	The sensitivity is set automatically according to the shooting conditions.
100-12800	Sensitivity is set to the selected value.

Face Priority

The camera detects faces and adjusts focus and ESP metering.

- **1** Press the \circledast button to display the live control, and select the face priority item using $\Delta \nabla$.
- **2** Use $\triangleleft \triangleright$ to select an option and press \circledast .



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

3 Point the camera at your subject.

- If a face is detected, it will be indicated by a white border.
- **4** Press the shutter button halfway to focus.
 - When the camera focuses on the face in the white border, the border will turn green.



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

⑦ Cautions

- Face priority applies only to the first shot in each sequence taken during sequential shooting.
- Depending on the subject, the camera may not be able to correctly detect the face.
- In metering modes other than [E] (ESP metering), the camera will meter exposure for the selected position.

40 EN

ND Filter Setting

Select [On] to reduce the light entering the lens. Photograph running water at slow shutter speeds or use wide apertures in bright light.

- **1** Press the \bigotimes button to display the live control, and select the ND filter item using $\Delta \nabla$.
- **2** Use $\triangleleft \triangleright$ to select an option and press \bigotimes .

Off	The ND filter is not used.
On	The ND filter is used.

Shooting through the monitor

- **1** Turn the camera on with the **ON/OFF** button.
 - · The back monitor will turn on.
- 2 Rotate the mode dial to set the shooting mode.

Frame the shot.

display manually. [EVF Auto Switch]



Horizontal grip

Vertical arip

- When switching the display manually, the viewfinder and the back monitor display switches each time the monitor button is pressed.
- A Press the shutter button halfway to focus.
 - · If the AF target mark blinks in red, the subject is not in focus. Adjust focus again.

5 While keeping the position of the

camera, press the shutter button rest of the way down gently to





Shutter speed Aperture value

Press halfway

Press the rest of the way down

3

shoot.

Shooting using touch panel

When you shoot through the monitor, you can touch to shoot instead of pressing the shutter button.

- 1 When framing the shot, touch to focus point.
 - Tap a subject to focus and automatically release the shutter.



You can disable the touch screen operations, or tap a subject only to focus.

٩	Touch screen operations disabled.	
	Tap a subject to focus. Photographs can be taken by pressing the shutter button.	
Ŧ	Tap a subject to focus and automatically release the shutter.	



Highlight & Shadow Control

Press the \bowtie button (\triangle) and press the **INFO** button to display the shadow control dialog. Then press the **INFO** button to display the highlight control dialog. Each time the **INFO** button is pressed, the camera switches to the exposure compensation control dialog, the shadow control dialog, and the highlight control dialog.





Shadow Control

You can adjust dark tone level. Choose "-" to darken shadows. Choose "+" to brighten shadows.

Highlight Control

You can adjust bright tone level. Choose "-" to darken highlights. Choose "+" to brighten highlights.

4 Shooting using various functions

Setting shooting functions

In the Shooting Menu 1 and 2, you can set the functions below.

1 Shooting Menu 1

Card Setup (P. 47) Reset/C Mode Setup (P. 47) Picture Mode (P. 48) **≰:**- (P. 50) Image Aspect (P. 50)

2 Shooting Menu 2





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



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

🕑 Notes

- For details on the functions that can be set with the menu, refer to "Menu directory" (P. 102).
- A guide is displayed for about 2 seconds after you select an option. Press the INFO button to view or hide guides.

Card Setup (Format)

All data stored on the card, including protected images, is erased when the card is formatted.

Confirm there are no images that you still want to keep on the memory.

- Cards formatted on a computer or other camera must be formatted with the camera before they can be used.
- 1 Select [Card Setup] in D1 shooting menu 1.
- 2 Select [Format].
- 3 Select [Yes] and press .
 - · Formatting is performed.



Reset (Restoring default or custom settings)

Restore default settings.

- Select [Reset/C Mode Setup] in D1 shooting menu 1.
- 2 Select [Reset] and press .
 - Highlight [Reset] and press ▷ to choose the reset type. To reset all settings except the date, language, and a few others, highlight [Full] and press .
 IS "Menu directory" (P. 102)
- 3 Select [Yes] and press .

C Mode Setup (Registering a custom setting)

You can shoot with the preselected settings which you registered.

- 1 Adjust settings in order to save.
- 2 Select [Reset/C Mode Setup] in D₁ shooting menu 1.
- 3 Select [Custom Mode 1] or [Custom Mode 2] and press the ⊛ button.
- - To erase the registered setting, select [Reset] and press .
 - Functions that can be saved to [C Mode Setup]. I "Menu directory" (P. 102)

Reset/	C Mode S	etup	
Reset		Basic	
Custom Mod	e	Set	
Back Maxu		Set C	Ж

Picture Mode (Processing options)

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

- **1** Select [Picture Mode] in **1** shooting menu 1.
- **2** Select an option with $\Delta \nabla$ and press \otimes .



A	i-Enhance	Produces more impressive-looking results suited to the scene.	
2	Vivid	Produces vivid colors.	
3	Natural	Produces natural colors.	
4	Muted	Produces flat tones.	
5	Portrait	Produces beautiful skin tones.	
Μ	Monotone	Produces black and white tone.	
(APT)	Pop Art		
APT_2	Soft Focus		
₽¶	Pale&Light Color		
ART4	Light Tone		
ART5	Grainy Film		
APT 6	Pin Hole	Choose an art filter and select the desired effect.	
ART.	Diorama		
₽¶	Cross Process		
₽¶	Gentle Sepia		
APT_	Dramatic Tone		
APT.	Key Line		

3 Press \triangleright to display settings for the selected option.

			1-5	Μ
С	ontrast	Distinction between light and dark	*	*
s	harpness	Sharpness of the image	~	>
s	aturation	Vividness of the color		—
G	radation	Adjust tone (gradation).		
	Auto	Divides the image into detailed regions and adjusts the brightness separately for each region. This is effective for images with areas of large contrast in which the whites appear too bright or the blacks appear too dark.	~	~
	Normal	Use [Normal] mode for general uses.		
	High Key	Gradation for a bright subject.		
	Low Key	Gradation for a dark subject.		
	f fect Enhance)	Sets the extent that the effect will be applied.	*	_
в	&W Filter	Creates a black and white image. The filter color is brightened and the complementary color is darkened.		
	N:Neutral	Creates a normal black and white image.		
	Ye:Yellow	Reproduces clearly defined white cloud with natural blue sky.		
	Or:Orange	Slightly emphasizes colors in blue skies and sunsets.		v
	R:Red	Strongly emphasizes colors in blue skies and brightness of crimson foliage.		
	G:Green	Strongly emphasizes colors in red lips and green leaves.		
Ρ	ict. Tone	Colors the black and white image.		
	N:Neutral	Creates a normal black and white image.		
	S:Sepia	Sepia		
	B:Blue	Bluish		Ŧ
	P:Purple	Purplish		
	G:Green	Greenish		

4 Shooting using various functions

⑦ Cautions

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

Record Mode (Image quality)

Select an image quality. You can select a separate image quality for photographs and movies. This is the same as the [Record Mode] (P. 36) item in [Live Control].

- You can change the JPEG image size and compression ratio combination, and [1] and [1] pixel counts.
 - [◀:- set], [Pixel Count] 🕼 "♣ Custom Menu" (P. 68)

Image Aspect (Setting the image aspect)

You can change the aspect ratio (horizontal-to-vertical ratio) when taking pictures. Depending on your preference, you can set the aspect ratio to [4:3] (standard), [16:9], [3:2] or [1:1].

⑦ Cautions

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

山/心 (Setting custom self-timer)

You can customize the self timer operation.

Select [□]/☉] in □2 Shooting Menu 2.



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

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

Image Stabilizer (Reducing camera shake)

You can set the image stabilizer to on or off (the same as the image stabilizer of the live control).

Bracketing (Varying settings over a series of photographs)

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

In the shooting menu, settings for bracketing are available. Bracketing is available only when [BKT] is selected. "Bracketing (BKT)" (P. 30)



- **2** Choose a bracketing type.
 - · You can select only one bracketing type.

AE BKT (AE bracketing)

The camera varies the exposure of each shot. The modification amount can be selected from 0.3 EV, 0.7 EV, or 1.0 EV. The camera continues to take shots in the following order while the shutter button is pressed all the way down: no modification, negative, positive. AE bracketing is available in **P** and **A** modes. Number of shots: 2 or 3

The camera brackets the value currently selected for exposure compensation.

WB BKT (WB bracketing)

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

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



-,	g
Brack	teting
AE BKT	Off
WB BKT	2f 0.3EV
	2f 0.7EV
	2f 1.0EV
	3f 0.3EV
	3f 0.7EV
	3f 1.0EV
ack WENU	Set OK





E.)

Set OK

ART BKT

Back Max

FL BKT (FL bracketing)

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

ISO BKT (ISO bracketing)

The camera varies the sensitivity over three shots while keeping the shutter speed and aperture fixed. The modification amount can be selected from 0.3 EV, 0.7 EV, or 1.0 EV. Each time the shutter button is pressed, the camera shoots three frames with the set sensitivity (or if auto sensitivity is selected, the optimal sensitivity setting) on the first shot, negative modification on the second shot, and positive modification on the third shot.

Bracketing is performed regardless of the upper limit set with [ISO-Auto Set]. IS "♣ Custom Menu" (P. 68)

Bracketing				
AE BKT WB BKT	Off 3f 0.3EV			
FL BKT	3f 0.7EV 3f 1.0EV			
ART BKT	3f 1.0EV			
Back IIIIN Set OK				

Bracketing

FL BKT

Back MENU

3f 0.3EV

3f 0.7EV 3f 1.0EV

Set OK

ART BKT (ART bracketing)

Each time the shutter is released, the camera records multiple images, each with a different art filter settiing. You can turn art filter bracketing on or off separately for each picture mode.

• Recording may take some time.



Remote Flash (Wireless remote control flash photography)

The built-in flash unit and external flash units that offer a remote control mode and are designated for use with this camera can be used for wireless flash photography. Select [On] to set each flash with the camera. Is "Wireless remote control flash photography" (P. 90)

\$ Sync (Setting the flash timing)

You can set the flash timing. For [\$ Sync 1], flash fires as shutter opens, while flash fires just before the shutter closes for [\$ Sync 2], creating a stream of light behind moving light sources.

(Taking pictures with a conversion lens)

Take pictures using an optional conversion lens. When using a conversion lens, be sure to choose the appropriate option.

Off	Select when taking pictures without a conversion lens.
TCON-17	Take pictures using a teleconversion lens (TCON-17X). Requires a CLA-13 conversion lens adapter.
WCON-08X	Take pictures using a wide conversion lens (WCON-08X). Requires a CLA-14 conversion lens adapter. Zoom is restricted to wide angles. The AF illuminator will not light.

⑦ Cautions

- · Before attaching or removing conversion lenses, be sure that the camera is off.
- After removing the automatic lens cap, attach the conversion lens adapter. \mathbb{I} "Automatic lens cap" (P. 3)
- The following restrictions apply when a conversion lens is attached:
 - The camera may take time to focus
 - The built-in flash may not light the entire subject (the shadow of the conversion lens may appear in photographs)
 - Step zoom (P. 70) can not be used

Interval Settings (Adjusting Interval Timer Settings)

Adjust interval timer photography settings, including the interval and number of shots. Shooting automatically with a fixed interval (time lapse shooting)" (P. 23)

Perform the following settings under [Interval Settings] in 2 Shooting Menu 2.

• See "Setting shooting functions" (P. 46) for information on using the shooting menu.

Frame	Sets the number of frames to be shot. The maximum is 999.
Start Waiting Time	Sets waiting time before starting to shot.
Interval Time	Sets interval between shots after shooting starts.
Time Lapse Movie	Sets recording format of frame sequence. [Off]: Records each frame as a still picture. [On]: Records each frame as a still picture and generates and records a single movie from the frame sequence.

• Time lapse movies are recorded in Motion JPEG format (1280 × 720 pixels, 10 fps).



Using playback options

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



	S	Movie frame		
	RAW	JPEG	RAW+JPEG	wovie name
Audio playback	>	~	>	—
JPEG Edit (P. 58)	_	~	>	—
RAW Data Edit (P. 58)	>	_	>	—
Movie Play	_	—	_	~
Share Order (P. 12)	>	~	>	~
О-п (Protect) (P. 12)	>	~	>	~
(Audio recording)	>	~	>	—
Rotate	~	~	>	—
(Slideshow)	>	~	>	~
凸 (Print reservation) (P. 85)		~	>	_
Erase (P. 12)	~	~	>	~

Audio playback

You can play back recorded audio. Use the $\Delta \nabla$ button to adjust the volume.

Performing operations on a movie frame (Movie Play)

©K)	Pause or resume playback. • You can perform the following operations while playback is paused. ↓ Or Sub dial Previous/Next Press and hold ↓ to continue the operation. ↓ Display the first frame.		
	∇	Display the last frame.	
$\triangleleft / \triangleright$	Advance or rewind a movie.		
Δ / ∇	Adjust volume.		

⑦ Cautions

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

(Audio recording)

Add an audio recording (up to 30 sec. long) to the current photograph.

- 1 Display the image to which you want to add an audio recording and press ⊛.
 - Audio recording is not available with protected images.
 - · Audio recording is also available in the playback menu.
- **2** Select $[\Psi]$ and press \odot .
 - To exit without adding a recording, select [No].



- 3 Select [♥ Start] and press ⊛ to begin recording.
 - To stop recording part-way through, press .
 - When 30 seconds passed, the recording automatically ends.
 - Images with audio recordings are indicated by a icon.
 - To delete a recording, select [Erase] in Step 2.



5

Playing back slideshow

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

- **2** Adjust settings.

Start	Start the slideshow. Images are displayed in order, starting with the current picture.
BGM	Set BGM (5 types) or turn BGM [Off].
Effect	Choose the transition between frames.
Slide	Set type of slideshow to execute.
Slide Interval	Choose the length of time each slide is displayed from 2 to 10 seconds.
Movie Interval	Select [Full] to include full-length movie clips in the slideshow, [Short] to include only the opening portion of each clip.

- 3 Select [Start] and press .
 - · The slideshow will start.
 - Press is to stop the slideshow.

Displaying images rotated

Choose whether to rotate photographs.

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

Using functions of playback menu

In the Playback Menu, you can use the functions below.

- • □ (P. 56)
 • □ (P. 85)
 • □ (P. 58)

 Reset Protect (P. 59)

 Edit (P. 58)

 Connection to Smartphone (P. 59)
- **1** Press the **MENU** button to display the menus.
- **2** Use $\Delta \nabla$ to select a tab and press \bigotimes .



3 Select an item using △ ▽ and press [®] to display options for the selected item.



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

🗭 Notes

- For details on the functions that can be set with the menu, refer to "Menu directory" (P. 102).
- A guide is displayed for about 2 seconds after you select an option. Press the INFO button to view or hide guides.

5

C (Displaying images rotated)

When set to [On], photographs taken with the camera rotated in portrait orientation are automatically rotated and displayed in portrait orientation.

Edit (Editing still images)

Recorded images can be edited and saved as new images.

- **2** Use $\triangleleft \triangleright$ to select the image to be edited and press \bigotimes .
- 3 Select [RAW Data Edit] or [JPEG Edit] and press ⊛.
 - [RAW Data Edit] is displayed if the picture is a RAW image, [JPEG Edit] if it is a JPEG image. If the image was recorded in RAW+JPEG format, both [RAW Data Edit] and [JPEG Edit] will be displayed. Select the menu for the image to be edited.

RAW Data Edit	Create a JPEG copy of a RAW image edited according to the settings. The editing was done with the curent settings. Set the camera settings before editing.
JPEG Edit	Choose from the following options: [Shadow Adj]: Brightens a dark backlit subject. [Redeye Fix]: Reduces the red-eye phenomenon during flash shooting. [\square]: Use the sub dial to choose the size of the crop and $\Delta \nabla \triangleleft D$ to position the crop. [Aspect]: Changes the aspect ratio of images from 4:3 (standard) to [3:2], [16:9] or [1:1]. After changing the aspect ratio, use $\Delta \nabla \triangleleft D$ to specify the trimming position. [\square]: Converts the image file size to 1280 × 960, 640 × 480, or 320 × 240. [e-Portrait]: Makes skin look smooth and translucent. You may not be able to compensate depending on the image if face detection fails.

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

⑦ Cautions

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

Audio recording

Add an audio recording (up to 30 sec. long) to the current photograph. This is the same function as $[\P]$ during playback. (P. 55)

Reset Protect (Canceling all protections)

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

- 1 Select [Reset Protect] in the ▶ playback menu.
- 2 Select [Yes] and press .

Connection to Smartphone (Using the Smartphone connection option)

The camera can connect to a smartphone by using the wireless LAN function. Once connected camera images can be viewed on and transferred to the other device. "Connecting the camera to a smartphone" (P. 62)

Setting setup menu

Use the Setup Menu to set the basic camera functions.

① (Date/time setting)	Rec View
World Time	Firmware
€↓□ (Changing the display language)	Wi-Fi Settings
(Monitor brightness adjustment)	

- **1** Press the **MENU** button to display the menus.
- **2** Use $\Delta \nabla$ to select a tab and press \bigotimes .



3 Select an item using $\Delta \nabla$ and press B to display options for the selected item.



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

🕑 Notes

- For details on the functions that can be set with the menu, refer to "Menu directory" (P. 102).
- A guide is displayed for about 2 seconds after you select an option. Press the INFO button to view or hide guides.

Option	Description	₿ [®]
● (Date/time setting)	 Set the camera clock. 1) Use △∇ to select the year for [Y]. 2) Press ▷ to save the setting for [Y]. 3) As in Steps 1 and 2, use △∇ ⊲▷ to set [M] (month), [D] (day), [Time] (hours and minutes), and [Y/M/D] (date order), and then press the ^(∞) button. For precise time setting, press the ^(∞) button as the time signal strikes 00 seconds. 	8
World Time	You can set your home and destination to change the date and time display.	_
Changing the display language)	You can change the language used for the on-screen display and error messages from English to another language.	_
(Monitor brightness adjustment)	You can adjust the brightness and color temperature of the monitor. Color temperature adjustment will affect only the monitor display during playback. Use ⊲▷ to highlight I [©] (color temperature) or ☆ (brightness) and △ ▽ to adjust the value. Press the INFO button to switch between [Natural] and [Vivid] monitor color display.	
Rec View	Choose whether pictures are displayed immediately after shooting and for how long. This is useful for making a brief check of the picture you have just taken. Pressing the shutter button halfway while checking the picture lets you resume shooting immediately. [1sec]–[20sec]: Selects the number of seconds to display each picture. Can be set in units of 1 second. [Off]: The picture being recorded to the card is not displayed. [Auto[]: Displays the image being recorded, and then switches to playback mode. This is useful for erasing a picture after checking it.	_
Firmware	Your product's firmware version will be displayed. When you make inquiries about your camera or accessories or when you want to download software, you will need to state which version of each of the products you are using.	_
Wi-Fi Settings	Set up the camera to connect to a smartphone with Wi-Fi connectivity using the wireless function on the camera.	62

6 Setting the camera

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

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

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

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

⑦ Cautions

- Before using the wireless LAN function, read "Using the wireless LAN function" (P. 113).
- If using the wireless LAN function in a country outside the region where the camera was purchased, there is a risk that the camera will not conform to the wireless communication regulations of that country. Olympus will not be held responsible for any failure to meet such regulations.
- · As with any wireless communication, there is always a risk of interception by a third party.
- The wireless LAN function on the camera cannot be used to connect to a home or public access point.
- The wireless LAN antenna is contained in the camera grip. Keep the antenna away from metal objects whenever possible.
- During wireless LAN connection, the battery will run down faster. If the battery is running low, the connection may be lost during a transfer.
- Connection may be difficult or slow in proximity to devices that generate magnetic fields, static electricity or radio waves, such as near microwaves, cordless telephone.

Connecting to a smartphone

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

- Select [Connection to Smartphone] in the ► Playback Menu and press .
 - Depending on the [Wi-Fi Connect Settings], the camera will operate as follows.

For private connection

You can connect to a smartphone using the same SSID and password every time you connect.

Only when connecting for the first time, configure the smartphone using the SSID and password displayed in the monitor.

OI.Share can also configure settings automatically by reading the QR code displayed in the monitor.

When connecting for the second time onwards, you can connect without configuring the SSID and password.

For one-time connection

Configure and connect the smartphone using a different SSID and password every time.

OI.Share can also configure settings automatically by reading the QR code displayed in the monitor.

When selecting every time

Select a connection method and begin connection.

- 2 To end the connection, press MENU on the camera or touch [End Wi-Fi] on the monitor screen.
 - · You can also end the connection with OI.Share or by turning off your camera.
 - · The connection ends.

Transferring images to a smartphone

You can select images in the camera and load them to a smartphone. You can also use the camera to select images you want to share in advance. Is "Setting a transfer order on images ([Share Order])" (P. 12)

- 1 Start [Connection to Smartphone] on the camera.
 - You can also connect by touching will in the monitor.
- **2** Launch OI.Share and tap the Image Transfer button.
 - · The images in the camera are displayed in a list.
- **3** Select the pictures you want to transfer and tap the Save button.
 - When saving is completed, you can turn off the camera from the smartphone.

Shooting remotely with a smartphone

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

- 1 Start [Connection to Smartphone] on the camera.
 - You can also connect by touching will in the monitor.
- **2** Launch OI.Share and tap the Remote button.
- **3** Tap the shutter button to shoot.
 - · The image taken is saved on the memory card in the camera.

⑦ Cautions

· 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 Ol.Share and turn on the switch on the Add Location button to begin saving the GPS log.
 - Before beginning to save the GPS log, the camera must be connected to OI.Share
 once to synchronize the time.
 - You can use the phone or other apps while the GPS log is saving. Do not terminate OI.Share.
- **2** When shooting is complete, turn off the switch on the Add Location button. Saving the GPS log is complete.
- **3** Start [Connection to Smartphone] on the camera.
 - You can also connect by touching WH in the monitor.
- **4** Transfer the saved GPS log to the camera using OI.Share.
 - GPS tags are added to the images in the memory card based on the transferred GPS log.
 - 🗶 is displayed on images to which position information has been added.

⑦ Cautions

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

Setting up your camera for wireless LAN connection (Wi-Fi settings)

You can change settings such as the password used when connecting using this camera's wireless LAN function.

Setting the connection method

There are two connection methods: [Private], which uses the same settings every time you connect, and [One-Time], which is limited to a one-time connection.

- 1 Select [Wi-Fi Settings] in the Y Setup Menu and press ⊛.
- 2 Select [Wi-Fi Connect Settings] and press ▷.
- 3 Select the wireless LAN connection method and press .
 - [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 private connection password

Change the password used for [Private].

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

Cancelling a share order

Cancel share orders that are set on images.

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

Initializing wireless LAN settings

Initializes content of [Wi-Fi Settings].

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

7

Using the super control panel

The term "super control panel" refers to the display shown below, which lists shooting settings together with the option currently selected for each.

Use the arrow pad or touch screen operations to make the settings.



Displaying the super control panel

To set and use the super control panel, select the check box of [SCP] of [Control Settings] in the "希 Custom Menu" (P. 68).

Press the sbutton in the shooting mode, the setting screen like the live control, the super control panel and the other settings. Press the **INFO** button to switch the setting screen.

Settings that can be modified using super control panel

- ① Currently selected option
- 2 ISO sensitivity.....P. 40
- ③ Sequential shooting/
- self-timer.....P. 30/P. 29
- Flash mode.....P. 28
- 5 Flash intensity controlP. 38
- 6 White balance.....P. 34
- White balance compensation......P. 35

*	Only	ART	or	SCN	mode.
---	------	-----	----	-----	-------

	B&W Filter 🕞	P. 49
	Picture tone ①	P. 49
9	Color space	P. 74
10	ND Filter Setting	P. 41
1	Face priority	P. 40
12	Metering mode	P. 38
13	Aspect ratio	P. 36
14)	Record mode	P. 36
15	AF mode	P. 39
	AF target	
16	Image stabilizer	P. 33
17	Shooting mode*	P. 16

- **1** After displaying the super control panel, select the desired setting using $\Delta \nabla \triangleleft \triangleright$ and press \bowtie .
 - You can also select settings using the sub dial.
 - You can also select settings touching the screen.
- 2 Select an option using ⊲⊳ and press the **INFO** button.
 - · Repeat steps 1 and 2 as necessary.
 - The selected settings take effect automatically if no operations are performed for a few seconds.
- **3** Press the shutter button halfway to return to shooting mode.

Switching the function setting panel

Each time you press the **INFO** button, the setting screen switches according to the setting in the custom menu.

INFO NEO NEO AUTO Live guide Live control* LV Super control panel* INFO P/A/S/M Live control LV Super control panel* INFO Art filter menu INFO ART/SCN Scene menu Live control* LV Super control panel*

* Displayed according to the setting in [Control Settings].





Camera settings can be customized using the 🐁 Custom Menu.

🗞 Custom Menu

9

AF/MF	AF Mode	🖬 🗲 Custom	Slow Llmit	
(P. 70)	AF Area	(P. 73)	5 <u>7</u> + <u>7</u>	
	[•••] Set Home	🖸 🐠/Color/WB	WB	
	AF Illuminat.	(P. 74)	All WB2	
	Sece Priority		AUTO Keep Warm Color	
	MF Assist		\$ +WB	
Button/Dial/	Button Function		Color Space	
Lever (P. 70)	Dial Function		€ • Set	
	P Lever Function		Pixel Count	
	Dial Direction	Record (P. 75)	File Name	
	Power On		Edit Filename	
	Coom Speed		dpi Settings	
	Step Zoom		Copyright Settings	
Connection/	HDMI	Movie	Movie 🍨	
Sound (P. 71)	Video Out	(P. 75)	Wind Noise Reduction	
(F. 7 1)	■)) (Beep sound)		Recording Volume	
	Volume	🗊 🗖 Utility (P. 76)	Pixel Mapping	
	USB mode		Exposure Shift	
🛅 Display	/Info Setting		Level Adjust	
(P. 72)	Displayed Grid		Touch Screen Settings	
	Control Setting		Eye-Fi	
	Picture Mode Setting		m/ft	
	Histogram Settings		EVF Adjust	
	Live View Boost		EVF Auto Switch	
	Sleep		While Exposing 🖪	
	Focal Length Display			
Exp/E2/ISO	Metering			
(P. 73)	[•••]+Metering			
	Noise Reduct.			
	Noise Filter			
	ISO			
	ISO-Auto Set			
	Bulb Timer			

9 Customizing camera setting

Customizing the setting

- **1** Press the **MENU** button to display the menus.
- **2** Select \mathcal{R} Custom Menu using $\Delta \nabla$, and press \mathfrak{S} .
- **3** Use $\Delta \nabla$ to select a tab and press \otimes .
- **4** Select an item using $\Delta \nabla$ and press \bigotimes to display options for the selected item.
- **5** Use $\Delta \nabla$ to highlight an option and press \otimes to select.
- For details on each menu item, refer to the following pages.

C. Connection/So	ound
2 HDMI	Π
Video Out	
°c ■)))	On
Volume	3
USB Mode	Auto
°F	
°G	
Back MENU	Set OK

EN 69

Option	Description	
AF Mode	Choose the AF mode.	39
AF Area	Choose the AF target mode.	
[···] Set Home	Choose the AF target position that will be saved as the home position. IP appears in the AF target selection display while you choose a home position.	_
AF Illuminat.	Select [Off] to disable the AF illuminator.	—
Face Priority	The camera gives priority to the faces or pupils of human portrait subjects during focusing.	40
MF Assist	[Magnify]: Select [On] to automatically magnify the image for greater precision during manual focus. Use the touch screen to choose the area magnified and the sub dial to choose the zoom ratio. [Peaking]: Highlight clearly-defined edges. Edges can be highlighted in [White] or [Black].	_

Button/Dial/Lever

MENU 🔿 🗞 🔿 🛅

Option	Description	
Button Function	Choose the function assigned to the selected button.	
Fn] Function	Off, AEL, Preview, ♀, [••] Home, Digital Tele-converter, Conversion Lens, ND Filter Setting, Zoom Framing Assist	
Function	Use the ⊛ button to view or hide options. During shooting, the m2 button can be used to cycle through the following options: IS Mode, Picture Mode, SCN, ART, WB, ,, , , , Aspect, Mage Quality, ∯ Image Quality, , , , , , , , , , , , , , , , , , ,	
• Function	AEL, Preview, A, [] Home, Digital Tele-converter, Conversion Lens, ND Filter Setting, Zoom Framing Assist, REC	
▷ Function	Off, 🗲	
	Off, ᄆ」, ᠔	
Dial Function	Choose the roles played by the control ring and sub dials.	
Q Lever Function	ver Function You can choose the control ring function from [MF], [Zoom] or [MF/Zoom] while the lever function is activated.	
Dial Direction	ial Direction Choose the direction in which the dials are rotated to adjust shutter speed or aperture or to move the cursor.	
Power On	Power On If [Yes] is selected, pressing and holding the button when the camera is off will turn the camera on and start playback.	
🔇 Zoom Speed	₹ Zoom Speed Choose the zoom speed from [Low] or [Normal] using the side zoom lever.	
Step Zoom	Step ZoomSelect [On] for [◯] (zoom lever) or [【] (side zoom lever) to use the selected control for step zoom. In step zoom, zoom is adjusted in 9 discrete steps (expressed as 35 mm format equivalent focal lengths, the steps are 28 mm, 35 mm, 50 mm, 70 mm, 85 mm, 100 mm, 135 mm, 200 mm, and 300 mm).	

Option	Description	
HDMI	[HDMI Out]: Selecting the digital video signal format for connecting to a TV via an HDMI cable.	
	[HDMI Control]: Select [On] to allow the camera to be operated using remotes for TVs that support HDMI control.	80
Video Out	Choose the video standard ([NTSC] or [PAL]) used in your country or region.	
■)) (Beep sound)	You can set to on or off the volume of the shutter sound and the beep sound emitted when performing operations.	
Volume	Adjust playback volume.	13, 54
USB Mode	Choose a mode for connecting the camera to a computer or printer. Choose [Auto] to display USB mode options every time the camera is connected.	

🖏 Display

MENU → 🗞 → 🛅

Option	Description				R\$	
/Info Settings	Choose the information displayed when the INFO button is pressed. [▶]Info]: Choose the information displayed in full frame playback. [LV-Info]: Choose the information displayed when the camera is in shooting mode. [▶] Settings]: Choose the information displayed in index and calendar playback.					
		 ►Info	LV-In	fo 🗖	Settings	
	Image Only			-		78
	Overall	~	-		-	10
		~	~		-	
	Highlight & Shadow	~	~		-	
	Level Gauge 1	_	~		-	
	Level Gauge 2	-	~		-	
	4-frame Index	-	-		~	
	9-frame Index	-	-		~	
	25-frame Index	_	-		~	
Displayed Grid	To choose a framing guide from [Off], [⊞], [⊞], [⊞], or [⊠], select [Displayed Grid].					
Control	Choose the controls di	splayed in	each sh	ooting me	ode.	
Settings			Shootin	g mode		
	Controls	HAUITO	P/A/ S/M	ART	SCN	
	Live Control (P. 32)	~	~	~	~	_
	SCP (P. 66)	~	~	~	~	
	Live Guide (P. 26)	>	-	-	-	
	Art Menu	-	-	~	-	
	Scene Menu	-	-	-	~	
Picture Mode Settings	Display only the selected picture mode when the live control or super control panel is used to select a picture mode.			33, 48		
Histogram Settings	[Highlight]: Choose the lower bound for the highlight display. [Shadow]: Choose the upper bound for the shadow display.			_		
Live View Boost	If [On] is selected, priority will be given to making images clearly visible; the effects exposure compensation and other settings will not be visible in the monitor.			_		
Sleep	The camera will enter sleep (energy saving) mode if no operations are performed for the selected period. The camera can be reactivated by pressing the shutter button halfway.			_		
Focal Length Display	Choose how zoom is displayed when the zoom lever is used during shooting (P. 14). [Magnification]: The zoom display shows the magnification. [Focal Length]: The zoom display shows the focal length. [35mm equiv.]: The zoom display shows the 35 mm format equivalent focal length.			14		
Exp/ 2/ISO

Option	Description	RF .
Metering	Choose a metering mode according to the scene.	38
[····]+Metering	If [On] is selected, the exposure is measured using the selected AF target.	_
Noise Reduct.	 This function reduces the noise that is generated during long exposures. [Auto]: Noise reduction is only performed at slow shutter speeds. [On]: Noise reduction is performed with every shot. [Off]: Noise reduction off. Noise reduction requires about twice the time needed to record the image. Noise reduction turns off automatically during sequential shooting. This function may not work effectively with some shooting conditions or subjects. 	20
Noise Filter	Choose the amount of noise reduction performed at high ISO sensitivities.	—
ISO	Set ISO sensitivity.	40
ISO-Auto Set	Choose the upper limit and default value used for ISO sensitivity when [Auto] is selected for [ISO]. [High Limit]: Choose the upper limit for auto ISO sensitivity selection. [Default]: Choose the default value for auto ISO sensitivity selection.	_
Bulb Timer	You can set the maximum time for bulb shooting.	—

🖬 🕻 Custom

MENU 🔿 🗞 🔿 🖬

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

Color/WB

Option	Description	R
WB	Set the white balance. This is the same as the live control setting. You can also fine-tune the white balance for each mode. You can also make fine adjustments using white balance compensation on the super control panel (P. 66).	34
All WB	[All Set]: Use the same white balance compensation in all modes except [CWB]. [All Reset]: Set white balance compensation for all modes except [CWB] to 0.	_
AUTO Keep Warm Color	Select [Off] to eliminate "warm" colors from pictures taken under incandescent lighting.	—
\$ +WB	Adjust white balance for use with a flash.	—
Color Space	You can select how colors are reproduced on the monitor or printer.	—
∢ ⊷ Set	 The record mode for JPEG photographs can be selected from four combinations of image size and compression rate. The camera offers a choice of three sizes and four compression rates for each combination. 1) Use ⊲▷ to select a combination ([€:-1]-[€:-4]) and use △♡ to change. 2) Press . 2) Press . 2) Press . 3) Number of pixels Compression rate 	37,101
Pixel Count	 Choose the pixel count for [M]- and [S]-size images. 1) Select [Middle] or [Small] and press ▷. 2) Choose a pixel count and press . Back	37,101

Option	Description	R ^a
File Name	[Auto]: Even when a new card is inserted, the file numbers are retained from the previous card. File numbering continues from the last number used or from the highest number available on the card. [Reset]: When you insert a new card, the folder numbers starts at 100 and the file name starts at 0001. If a card containing images is inserted, the file numbers start at the number following the highest file number on the card.	_
Edit Filename	Choose how image files are named by editing the portion of the filename highlighted below in gray. sRGB: Pmdd0000.jpg Pmdd AdobeRGB:mdd0000.jpg mdd	_
dpi Settings	Choose the print resolution.	—
Copyright Settings*	 Add the names of the photographer and copyright holder to new photographs. Names can be up to 63 characters long. [Copyright Info.]: Select [On] to include the names of the photographer and copyright holder in the Exif data for new photographs. [Artist Name]: Enter the name of the photographer. [Copyright Name]: Enter the name of the photographer. [Copyright Name]: Enter the name of the copyright holder. 1) Highlight a character 2 and press ⊕ to add the highlighted character to the name 1. 2) Repeat Step 1 to complete the name, then highlight [END] and press ⊕. • To delete a character, press the INFO button to place the cursor in the name area 1, and highlight the character. After selecting press the INFO button to return the cursor to the area 2, and press [Delete]. 	

* OLYMPUS does not accept liability for damages arising from disputes involving the use of [Copyright Settings]. Use at your own risk.

Movie

Menu 🔿 🇞 🌧 🖬

Option	Description	R
Movie 🎐	Choose [Off] to record silent movies.	—
Wind Noise Reduction	Reduce wind noise during recording.	_
Recording Volume	Adjust microphone sensitivity according to the distance to your subject.	_

9 Customizing camera setting



Option	Description	R\$
Pixel Mapping	The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions.	98
Exposure Shift	 Adjust optimal exposure separately for each metering mode. This reduces the number of exposure compensation options available in the selected direction. The effects are not visible in the monitor. To make normal adjustments to the exposure, perform exposure compensation (P. 29). 	_
Level Adjust	 Adjust the angle of the virtual horizon. [Reset]: Restore the factory default angle. [Adjust]: Set the virtual horizon to the camera's current angle. To view the virtual horizon, select [On] for a [♣]/Info Settings] (P. 72) > [LV-Info] level gauge option and then press the INFO button until the virtual horizon appears in the shooting display. 	
Touch Screen Settings	Activate the touch screen. Choose [Off] to disable the touch screen.	_
Eye-Fi*	Enable or disable upload when using an Eye-Fi card.	100
m/ft	When [AF Mode] (P. 39) is set to [MF], you can select meters or feet as the unit of length displayed on the monitor.	_
EVF Adjust	Adjust the brightness and color temperature of the electronic viewfinder. Color temperature applies to the viewfinder display. Use $\triangleleft D$ to select color temperature (\S :) or brightness (\diamondsuit) and use $\land \nabla$ to choose from values between [+7] and [-7]. Brightness is automatically adjusted when [EVF Auto	_
	Luminance] is set to [On].	
EVF Auto Switch	Sets whether to automatically switch the EVF. If [Off] is selected, the viewfinder will not turn on when you put your eye to the viewfinder. Use the O button to choose the display. The same menu can also be displayed by pressing and holding the O button.	_
While Exposing 🕼	Sets whether to continue to stabilize an image. When set to [On], an image is stabilized during shooting. The image is more stabilized.	33, 50

* Use in accordance with local regulations. Onboard airplanes and in other locations in which the use of wireless devices is prohibited, remove the Eye-Fi card from the camera or select [Off] for [Eye-Fi].

The camera does not support the "endless" Eye-Fi mode.

Button Function

MENU \rightarrow \circledast \rightarrow \blacksquare \rightarrow [Button Function]

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

Button function items

[Fn] Function] / [Fn2 Function] / [O Function] / [V Function] / [V Function]

AEL	Press the button to lock the exposure.
Preview	Aperture is stopped down to the selected value while the button is pressed.
A	The camera measures white balance when the shutter button is pressed all the way down while pressing the button (P. 35).
[····] Home	Pressing the button selects the AF target position saved with [[•••] Set Home] (P. 68). The home AF target position is indicated by a IHP icon. Press the button again to return to AF target mode. If the camera is turned off when the home position is selected, the home position will be reset.
Digital Tele-converter	Digital Tele-converter is used to zoom in beyond the current zoom ratio. The camera saves the center crop. Zoom is increased by about 2×. Press the button to turn digital zoom on or off. Assigning a different function to the button cancels the digital tele-converter setting.
Conversion lens	Sets the attached conversion lens.
ND Filter Setting	Adjust the ND filter.
Zoom Framing Assist	Press the button during zooming in to zooming out some distance. Press and hold the button to turn off the zoom framing assist after releasing the button.
Off	No function is assigned to the button.
IS Mode	Adjust image stabilization settings.
Picture mode	Set the finish and art filters for an image.
SCN	You can change the scene mode.
ART	You can change the art filter.
WB	Adjust white balance.
	Choose a sequential shooting or self timer option.
Aspect	Adjust the aspect ratio.
Image Quality	Adjust the image quality for photographs.
P Image Quality	Adjust the image quality for movies.
\$	Choose a flash mode.
<u>57</u>	Adjust the flash output.
Metering	Adjust the exposure method.
AF Mode	Adjust the AF method.
ISO	Set ISO sensitivity.
Face priority	Adjust face priority.
• REC	Press the button to record a movie.

Choosing the Information Shown in the Shooting Display

The [P]/Info Settings] option in the custom menu (P. 72) can be used to choose the information shown in the display during shooting. Press the **INFO** button to cycle the shooting display as follows:



Level gauge display

Indicate the orientation of the camera. The "tilt" direction is indicated on the vertical bar and the "horizon" direction on the horizontal bar. Use the indicators on the level gauge as a guide. If the level gauge does not indicate the orientation correctly, calibrate the angle of the level gauge. If the level Adjust] (P. 68)

Highlight & Shadow display

Areas above the upper limit of brightness for the image are shown in red, those below the lower limit in blue. I [Histogram Settings] (P. 68)

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 playback high-definition images on a high-definition TV by connecting it to the camera using the HDMI cable (sold separately).



- 1 Use the cable to connect the camera to the TV.
 - Adjust settings on the TV before connecting the camera.
 - Choose the camera video mode before connecting the camera via an AV cable. \mathbb{R} [Video Out] (P. 71)
- 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.

⑦ Cautions

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

1080i	Priority is given to 1080i HDMI output.
720p	Priority is given to 720p HDMI output.
480p/576p	480p/576p HDMI output. 576p is used when [PAL] is selected for [Video Out] (P. 71).

Using the TV remote control

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

- 1 Select [HDMI] in 🗞 Custom Menu tab 🔂.
- 2 Select [HDMI Control] and choose [On].
- **3** Operate the camera by using the TV remote control.
 - You can operate the camera by following the operation guide displayed on the TV.
 - During single-frame playback, you can display or hide the information display by pressing the "Red" button, and display or hide the index display by pressing the "Green" button.
 - · Some televisions may not support all features.
 - · 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.

Connecting the camera



⑦ Cautions

- · Use a fully charged battery for printing.
- · RAW images and movies can not be printed.

Easy printing

- **1** Use $\triangleleft \triangleright$ to display the pictures you want to print on the camera.
- **2** Connect the camera to the printer using the supplied USB cable.
 - If the easy print start screen is not displayed, select [Auto] for the USB mode in the camera custom menu before connecting PC again.



3 Press ▷.

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

10

Custom printing

- **1** Connect the camera to the printer using the supplied USB cable and turn the camera on.
 - When the camera is turned on, a dialog should be displayed in the monitor prompting you to choose a host. If it is not, select [Auto] for [USB Mode] (P. 68) in the camera custom menus.
- **2** Use $\Delta \nabla$ to select [Custom Print].
 - [Do Not Remove USB Cable] will be displayed, followed by a print-mode selection dialog.



- If the screen is not displayed after a few minutes, disconnect the USB cable and start again from Step 1.
- **3** Follow the operation guide to set a print option.

Selecting the print mode

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

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

Setting the print paper items

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

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

10

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 (A)	Applies print reservation to the currently displayed picture. If you want to apply reservation to other pictures after applying [Single Print], use $\triangleleft \triangleright$ to select them.
More (🗨)	Sets the number of prints and other items for the currently displayed picture, and whether or not to print it. For operation, refer to "Setting printing data" in the next section.

Setting printing data

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

Ъ×	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 control ring or sub dial, and set the trimming position with $\Delta \nabla \Delta \triangleright$.

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

Cancelling printing

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

Print reservation (DPOF)

You can save digital "print orders" to the memory card listing the pictures to be printed and the number of copies of each print. You can then have the pictures printed at a print shop that supports DPOF or print the pictures yourself by connecting the camera directly to a DPOF printer. A memory card is required when creating a print order.

Creating a print order

- 1 Press ⊛ during playback and select [凸].
- 2 Select [凸] or [凸] and press ⊛.

Individual pictures

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

All pictures

Select [썁] and press @.

3 Select the date and time format and press .

	The pictures are printed without the date and time.
Date	The pictures are printed with the shooting date.
Time	The pictures are printed with the shooting time.

- When multiple pictures are printed simultaneously, settings can not be adjusted individually for each image.

⑦ Cautions

- The camera can not be used to modify print orders created with other devices. Creating a new print order deletes any existing print orders created with other devices.
- · Print orders can not include RAW images or movies.

Removing all or selected pictures from the print order

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

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





10

Connecting the camera



⑦ Caution

- When the camera is connected to another device via USB, a message will be displayed prompting you to choose a connection type. Select [Storage].
- 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 does not prompt you to choose a connection type, reconnect the camera after selecting [Auto] for [USB Mode] in the custom menu (P. 68).

Installing Software

Windows

Insert the supplied CD in a CD-ROM drive.

Windows XP

- · A "Setup" dialog will be displayed.
- Microsoft no longer supports Windows XP. Continued use may threaten your computer's security; use at your own risk.

Windows Vista/Windows 7/Windows 8/Windows 8.1

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

OLYMPUS OLYMPUS SET UP	10 A
Registration	Thank yes for ourshaving this Olympus product.
OLYMPUS Viewer 3	
Gamera Instruction Manual	

⑦ Caution

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

10

Connecting the camera to another device

3 Register your Olympus product.

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

4 Install OLYMPUS Viewer 3.

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

Operating System	Windows XP SP3/Windows Vista SP2/ Windows 7 SP1/Windows 8/Windows 8.1			
Processor	Pentium 4 1.3 GHz or better (Core 2 Duo 2.13 GHz or better required for movies)			
RAM	1 GB or more (2 GB or more recommended)			
Free Hard Drive Space	3 GB or more			
Monitor Settings	1024 × 768 pixels or more Minimum 65,536 colors (16,770,000 colors recommended)			

· See online help for information on using the software.

Macintosh

- 1 Insert the supplied CD in a CD-ROM drive.
 - The disk contents should automatically be displayed in the Finder. If they are not, double-click the CD icon on the desktop.
 - Double-click the "Setup" icon to display the "Setup" dialog.
- **2** Install OLYMPUS Viewer 3.
 - Check the system requirements before beginning installation.
 - Click the "OLYMPUS Viewer 3" button and follow the on-screen instructions to install the software.





Operating System	Mac OS X v10.5-v10.9			
Processor	Intel Core Solo/Duo 1.5 GHz or better (Core 2 Duo 2.13 GHz or better required for movies)			
RAM	1 GB or more (2 GB or more recommended)			
Free Hard Drive Space	3 GB or more			
Monitor Settings	1024 × 768 pixels or more Minimum 32,000 colors (16,770,000 colors recommended)			

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

10

Copying pictures to a computer without OLYMPUS Viewer 3

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

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

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

2 Turn on the camera.

- The selection screen for the USB connection is displayed.
- **3** Press $\Delta \nabla$ to select [Storage]. Press \otimes .



4 The computer recognizes the camera as a new device.

⑦ Cautions

- If your computer is running Windows Vista/Windows 7/Windows 8/Windows 8.1, select [MTP] in Step 3 to use Windows Photo Gallery.
- Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.

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

- Camera controls can not be used while the camera is connected to a computer.
- If the dialog shown in Step 2 is not displayed when the camera is connected, select [Auto] for [USB Mode] (P. 68) in the camera custom menus.

10

Eyecup

You can exchange this for a larger eyecup (EP-11).



Using external flash units designated for use with this camera

With this camera, you can use one of the separately sold external flash units to achieve a flash suited to your needs. The external flashes communicate with the camera, allowing you to control the camera's flash modes with various available flash control modes, such as TTL-AUTO.

An external flash unit specified for use with this camera can be mounted on the camera by attaching it to the camera's hot shoe. You can also attach the flash to the flash bracket on the camera using the bracket cable (optional). Refer to the documentation provided with the external flash units as well.

Optional flash	GN (Guide number) (ISO100)			
FL-14		GN14 (28mm*)		
FL-36R		GN36 (85mm*) GN20 (24mm*) GN50 (85mm*) GN28 (24mm*)		
FL-50R	TTL-AUTO, AUTO, MANUAL			
FL-300R		GN20 (28mm*)		
FL-600R		GN36 (85 mm*) GN20 (24 mm*)		

Wireless remote control flash photography

External flash units that are designated for use with this camera and have a remote control mode can be used for wireless flash photography. The camera can control the flash units in up to three separate groups. See the instruction manuals provided with the external flash units for details.

- 1 Set the remote flash units to RC mode and place them as desired.
 - Turn each flash unit on, press the MODE button, and select RC mode.
 - · Select a channel and group for each flash unit.

2 Select [On] for [2 RC Mode] in 2 Shooting menu 2 (P. 46).

- The super control panel switches to RC mode.
- You can choose a super control panel display by repeatedly pressing the INFO button.
- Select a flash mode (note that red-eye reduction is not available in RC mode).

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



4 Press the flash switch to pop up the internal flash.

After confirming that the built-in and remote flash units have charged, take a test shot.

■ Wireless flash control range

Position the wireless flash units with their remote sensors facing the camera. The following illustration shows the approximate ranges at which the flash units can be positioned. The actual control range varies with local conditions.



⑦ Cautions

- · We recommend using a single group of up to three remote flash units.
- Remote flash units can not be used for second curtain slow synchronization longer than 4 seconds.
- If the subject is too close to the camera, the control flashes emitted by the built-in flash
 may affect exposure (this effect can be reduced by reducing the output of the built-in flash
 by, for example, using a diffuser).

Other external flash units

Observe the following precautions when mounting an external flash unit not designated for use with this camera on the camera hot shoe:

- Using obsolete flash units that apply currents of more than about 24 V to the camera hot shoe X-contact will damage the camera.
- Connecting flash units with signal contacts that do not conform to Olympus specifications may damage the camera.
- Use only with the camera in shooting mode ${f M}$ at ISO settings other than [AUTO].
- Flash control can only be performed by manually setting the flash to the ISO sensitivity and aperture values selected with the camera. Flash brightness can be adjusted by adjusting either ISO sensitivity or aperture.
- Use a flash with an angle of illumination suited to the lens. Angle of illumination is usually expressed using 35-mm format equivalent focal lengths.

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

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The camera does not work even when batteries are installed.

- Insert recharged batteries in the correct direction. Is "Inserting and removing the battery and card" (P. 7)
- 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. 93)

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 no operations are performed for a pre-determined period of times while the camera is 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 5 minutes, it automatically turns off. Press the ON/OFF button to turn the camera on.
- Press the button to switch to the shooting mode.
- Wait until \$ (flash charge) stops blinking before taking pictures.

 With prolonged camera use, the internal temperature may increase, resulting in automatic shutdown. If this occurs, wait until the camera has sufficiently cooled. The camera's external temperature may also increase during use, however this is normal and does not indicate malfunction.

Monitor

Difficult to see.

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

The light is caught in the picture.

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

■ Date and time function Date and time settings return to the default setting.

- If the batteries are removed and left out of the camera for about 3 days^{*1}, the date and time settings return to the default setting, and must be reset.
 - *1 The time until the date and time settings return to the default setting varies depending on how long the batteries have been loaded.
 IS "Turning on the camera and making the initial settings" (P. 8)

Error message

Monitor indication	Possible cause	Corrective action			
Card Error	There is a problem with the card.	Insert the card again. If the problem persists, format the card. If the card cannot be formatted, it cannot be used.			
Write Protect	Writing to the card is prohibited.	The card write-protect switch is set to the "LOCK" side. Release the switch. (P. 100)			
Card Full	The card is full. No more pictures can be taken or no more information such as print reservation can be recorded. There is no space in the card and print reservation or new images cannot be recorded.	Replace the card or erase unwanted pictures. Before erasing, download important images to a PC.			
No Picture	There are no pictures on the card.	The card contains no pictures. Record pictures and play back.			
Picture Error	The selected picture cannot be displayed for playback due to a problem with this picture. Or the picture cannot be used for playback on this camera.	Use image processing software to view the picture on a PC. If that cannot be done, the image file is damaged.			
The Image Cannot Be Edited	Pictures taken with another camera cannot be edited on this camera.	Use image processing software to edit the picture.			

Monitor indication	Possible cause	Corrective action			
₽ °C/°F		Turn off the camera and wait for the internal temperature to cool.			
Internal camera temperature is too high. Please wait for cooling before camera use.	The internal temperature of the camera has risen due to sequential shooting.	Wait a moment for the camera to turn off automatically. Allow the internal temperature of the camera to cool before resuming operations.			
Battery Empty	The battery is drained.	Charge the battery.			
No Connection	The camera is not connected to the computer or printer correctly.	Disconnect the camera and connect it again correctly.			
No Paper	There is no paper in the printer.	Load some paper in the printer.			
No Ink	The printer has run out of ink.	Replace the ink cartridge in the printer.			
Jammed	The paper is jammed.	Remove the jammed paper.			
Settings Changed	The printer's paper cassette has been removed or the printer has been manipulated while making settings on the camera.	Do not manipulate the printer while making settings on the camera.			
Print Error	There is a problem with the printer and/or camera.	Turn off camera and printer. Check the printer and remedy any problems before turning the power on again.			
Cannot Print	Pictures recorded on other cameras may not be printed on this camera.	Use a personal computer to print.			

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.

- Take pictures using the touch screen. IN P. 43
- Taking a picture of a subject not in the center of the monitor.
 After focusing on an object at the same distance as the subject, compose the shot, and take the picture. IS "Focus lock" P. 39
- Using the face priority AF. IN P. 40
- Taking a picture of a shadowy subject.
 Using the AF illuminator makes focusing easier. IS "AF Illuminat." P. 68
- 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



Subjects at different distances^{*1}



Excessively bright light in center of frame



Subject containing no vertical lines *1



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.

Fast-moving subject

Camera shake

Taking pictures without camera shake.

· Taking pictures using [Image Stabilizer].

The image pickup device shifts to correct for camera shake even if the ISO sensitivity is not increased. This function is also effective when taking pictures at a high zoom magnification. I "Image Stabilizer" P. 33

Select [S Sport] in the scene mode. IS P. 21

The [$\ensuremath{\mathbb{K}}$ Sport] mode uses a fast shutter speed and can reduce the blur incurred by a moving subject.

Taking pictures at a high ISO sensitivity.

If a high ISO sensitivity is selected, pictures can be taken at a high shutter speed even at locations where a flash cannot be used. $I\!\!S\!\!S^*$ "ISO" P. 40

Exposure (brightness)

Taking pictures with the right brightness.

- Select [Auto] for [Gradation] in picture mode. IN P. 48
- Taking pictures using [Spot Metering]. ISP P. 38 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. I P. 28 A subject against backlight is brightened.
- Taking pictures of a white beach or snow scene. It P. 21 Select [1] Beach & Snow] in the scene mode.
- Taking pictures using exposure compensation. I P 29
 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. IN P. 34

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 at a low ISO sensitivity. IN 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.

12 Usage Tips

Playback/Editing tips

Playback

Viewing images with high picture quality on a highdefinition TV

- Connect the camera to the TV using an HDMI cable (sold separately). \mathbb{R} "Viewing camera images on TV" P. 80

Editing

Erasing the sound recorded to a still image.

Display a still image to erase the sound, and select [Erase] for [♥].
 I会 "♥ (Audio recording)" P. 55



Cleaning and storing the camera

Camera care

Exterior:

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

Monitor:

· Wipe gently with a soft cloth.

Lens:

· Blow dust off the lens with a commercial blower, then wipe gently with a lens cleaner.

⑦ Cautions

- · 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.

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.

⑦ Cautions

 Avoid leaving the camera in places where chemical products are handled since this may result in corrosion.

Pixel mapping - Checking the image processing functions

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

1 Select [Pixel Mapping] in 🐁 Custom Menu (P. 68) tab 🗃.

2 Press \triangleright , then press \odot .

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

⑦ Cautions

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

Battery and charger

- Use the single Olympus lithium-ion battery. Use only genuine OLYMPUS rechargeable batteries.
- The camera's power consumption varies widely with usage and other conditions.
- As the following consume a lot of power even without shooting, the battery will be drained quickly.
 - · The zoom is used repeatedly.
 - Performing auto focus repeatedly by pressing the shutter button halfway in shooting mode.
 - Displaying images on the monitor for a prolonged period.
 - · When connected to a computer or printer.
- When using a drained battery, the camera may turn off without the low battery warning being displayed.
- The battery will not be fully charged at the time of purchase. Charge the battery using the provided charger before use.
- The normal charging time using the provided charger is approximately 3 hours 30 minutes (estimated).
- Do not attempt to use chargers not specifically designated for use with the supplied battery, or to use batteries not specifically designated for use with the supplied charger.

⑦ Cautions

- · There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions "Battery Handling Precautions" (P. 113).

Using your charger abroad

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

Using the card

Cards compatible with this camera

In this manual, all storage devices are referred to as "cards." The following types of SD memory card (commercially available) can be used with this camera: SD, SDHC, SDXC, and Eye-Fi. For the latest information, please visit the Olympus website.

SD card write protect switch

The SD card body has a write protect switch. If you set the switch to the "LOCK" side, you will not be able to write to the card, delete data or format. Return the switch to the unlock position enable writing.

⑦ Cautions

- The data in the card will not be erased completely even after formatting the card or deleting the data. When discarding, destroy the card to prevent leakage of personal information.
- 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. IS [Eye-Fi] (P. 76)
- 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.



Record mode and file size/number of storable still pictures

Record mode	Number of pixels (Pixel Count)	Compression	File format	File size (MB)	Number of storable still pictures Card ^{*1}
RAW		_	ORF	Approx. 18.5	190
I SF		1/2.7		Approx. 8.8	420
D F	3968×2976	1/4		Approx. 6.1	600
		1/8		Approx. 3.3	1.320
<u> </u>		1/12		Approx. 2.3	1,960
MSF		1/2.7		Approx. 5.9	620
MIF	00000400	1/4		Approx. 4.2	1,020
MN	3200×2400	1/8		Approx. 2.3	2,030
MB		1/12	1	Approx. 1.7	2,970
MSF		1/2.7		Approx. 4.0	1,080
MF	2560×1920	1/4		Approx. 2.8	1,580
MN	2560×1920	1/8		Approx. 1.7	3,120
MB		1/12		Approx. 1.3	4,520
MSF		1/2.7		Approx. 2.0	1,900
MF	1920×1440	1920×1440 1/4		Approx. 1.4	2,770
MN		1/8		Approx. 0.7	5,300
MB		1/12	JPEG	Approx. 0.5	7,620
MSF		1/2.7	51 20	Approx. 1.4	2,710
MF	1600×1200	1/4		Approx. 1.0	3,930
MN	100041200	1/8		Approx. 0.5	7,620
MB		1/12		Approx. 0.3	10,170
SF		1/2.7		Approx. 0.9	4,060
SF	1280×960	1/4		Approx. 0.6	5,810
SIN	1200~300	1/8		Approx. 0.3	11,090
SB		1/12		Approx. 0.3	15,250
SF		1/2.7		Approx. 0.6	6,100
SF	1024×768	1/4		Approx. 0.4	8,710
SIN	10240100	1/8		Approx. 0.2	15,250
S B		1/12		Approx. 0.2	20,340
SSF		1/2.7		Approx. 0.3	13,560
SF	640×480	1/4		Approx. 0.2	20,340
SN	040^400	1/8		Approx. 0.1	30,510
SB		1/12		Approx. 0.1	40,680

*1 Assumes a 4GB SD card.

⑦ Cautions

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

Menu directory

*1: Can be added to [C Mode Setup].

*2: Default can be restored by selecting [Full] for [Reset].

*3: Default can be restored by selecting [Basic] for [Reset].

1 Shooting Menu 1 / 2 Shooting Menu 2

Tab	Fun	ction	Default	*1	*2	*3	RF .
D 1	Card Setup	All Erase/ Cancel				47	
	Reset/C Mode Setup		—				47
	Picture Mode		2 Natural	>	•	٢	33
	4 :-	Still Picture	LN				36
	* *	Movie	Full HD	`	>	~	30
	Image Aspect		4:3	~	>	~	36
D 2				>	>	<	50
	Image Stabilizer		On	>	>	٢	33
		AE BKT	Off		>		51
	Drashatian	WB BKT G-M	Off				51
	Bracketing	FL BKT	Off	`		~	52
		ISO BKT	Off]			52
		ART BKT	Off]			52
	\$RC Mode		Off	~	•	٢	53
	\$ Sync		\$ Sync 1	~	~	、	53
			Off	>	•	٢	53
	Frame		999				
	Internal Cattings	Start Waiting Time	00:00:01	•	-		53
	Interval Settings	Interval Time	00:00:01			~	
		Time Lapse Movie	Off				

Playback Menu

Tab	Function			Default	*1	*2	*3	RF .	
►	Start			Start					
		BGM		Cosmic		>	>		
	D	Effect		Standard		>	>	56	
		Slide		All		~	~	50	
		Slide Interval		3 sec		~	~	~	
	Movie Interval		Short		~	>	1		
	Ļ			On		~	~	58	
			RAW Data Edit	—				58	
	Edit	Sel. Image	JPEG Edit	—	1			58	
		_	Ų	—	1			59	
	凸 Reset Protect			—				85	
				_				59	
	Connectio	n to Smartphone	_				59, 62		

13 Information

Y Setup Menu

Tab	F	unction	Default	*1	*2	*3	R ^a
ŕ	0		—				
	World Time		Home/Alternate				
	₽*		—				
			I ±0, ☆ ±0, Natural		~		
	Rec View		2 sec	>	~	~	
	Firmware		—				60
		Wi-Fi Connect Settings	Private		•		00
		Private Password	—				
	Wi-Fi Settings	Reset share Order	—				
		Reset Wi-Fi Settings	_				
		OFF	_				

 $^{\ast}~$ Settings differ depending on the region where the camera is purchased.

& Custom Menu

Та	b	Function		D	efault	*1	*2	*3	R ²
*,	*A	AF/MF							
	AF Mode		Still Picture	S-AF		~	~	>	
		AF Area		[~	-	~	
		[····] Set Home	2	[]]]		~	~	~	
		AF Illuminat.		On		~	~	~	70
		Face Priorit	У	Face Priority	Off	~	~		
		MF Assist.	Magnify	On					
			Peaking	Off		•	•		
	₿	Button/dial/Lev		1					
			Fn1 Function		converter				
		Button	Fn2 Function			•	Ľ	·	
		Function	Function	Movie			~	~	
			▷ Function	4		~	~	~	
						~	~	~	
			Р	():Ps	(0:12				
			A	():FNo.	(): 🗹				
			S	C: Shutter					
			М	C: Shutter	(©: FNo.				
		Dial Function		():Ps	(0: 🗹	~	-		70
			SCN	(): Mode Switching ((): 🔀					
			ART	(): Mode Sw	itching 🜔: 🗾				
			Menu	(): ↓	(): 🗢 /Value				
			►	(): EQ	C: Prev/Next				
		Q Lever Funct	ion	MF		~	~	~	
			Exposure	С С					
		Dial Direction	Menu	2					
			MF	С С		`	`		
			Zoom	С С		1			

13 Information

Tab)	Function		Default	*1	*2	*3	R ²
*	₿	Power On		Yes	~	~	~	
		🔇 Zoom Spee	d	Low	~	~		70
		Step Zoom	Ö {	Off Off	•	-	~	70
	¢c	Connection/Sc	_					
			HDMI Out	1080i				
		HDMI	HDMI Control	Off		~		
		Video Out		_				
		■)) Beep Soun	nd	On				71
		Volume		3		~	~	
		USB Mode		Auto		~	~	
[*D	Display						
			► Info	 ✓ Image Only ✓ Overall □ Image Image Only □ Highlight&Shadow 	>	~	~	
		Settings	LV-Info	Highlight&Shadow Level Gauge 1 Level Gauge 2 Image Only	>	~		
			Settings		>	~		
		Displayed Grid		Off	~	~		
			iAUTO	Live Guide Live Control Live SCP	~	-		
			P/A/S/M	Live Control Live SCP	>	~		
		Settings	ART	Art Menu Live Control Live SCP	>	~		72
			SCN	Scene Menu Live Control Live SCP	>	~		
		Picture Mode S	Settings	 i-Enhance Vivid Muted Portrait Monotone Soft Focus Pale&Light Color Light Tone Grainy Film Pin Hole Diorama Cross Process Gentle Sepia Dramatic Tone Key Line 	~	~		

Tab	Function		Default	*1	*2	*3	ß		
t °D	Histogram	Highlight	255						
	Settings	Shadow	0	ľ,	`	~			
	Live View Boo	st	Off	~	~	~	72		
	Sleep		1 min	~	~	~			
	Focal Length I	Display	Magnification	~	~	~			
ΨE	Exp/🛃/ISO		1						
	Metering			~	~	~			
	[•••]+Metering		Off	~	~	>			
	Noise Reduct.		Auto	~	~	~			
	Noise Filter		Standard	~	~	~	73		
	ISO		Auto	~	~	~			
	ISO-Auto Set		High Limit: 1600 Default: 100	~	~	>			
	Bulb Timer		15 min	~	~	<			
* _F	Custom								
	Slow Limit		1/30	~	~	~	70		
	<u>₩</u> +		Off	~	~	~	73		
₽Ğ	∢: -/Color/WB		1						
	WB		Auto	~	~	~			
		All Set	A:±0, G:±0	~	~				
	All WB1	All Reset	No		~				
	AUTO Keep War	m Color	On	~	~	~			
	4 +WB		Off	-	~	~			
	Color Space		sRGB	-	~	~			
	∢:- Set		 €:-1: UF €:-2: UN €:-3: MN €:-4: SN 	~	~	>	74		
	Di al Osari	Middle	2560×1920						
	Pixel Count	Small	1280×960	~	~	~			
ФН	Record								
	File Name		Reset		~				
	Edit filename	sRGB Adobe RGB	Off		-				
	dpi Settings	1/100001100	350						
		Copyright Info.	Off		~		75		
	Copyright	Artist Name							
	Settings	Copyright							
		Name	-						
•	Movie	1.1.3.1.0	1						
	Movie U		On	~	~	~			
	Wind Noise Re	eduction	Off		~	•	75		
							- 15		

Та	b	Fund	ction	Default	*1	*2	*3	R\$
*.	\$_	🗖 Utility						
		Pixel Mapping		_				
	Exposure (3) Shift		0	±0	~	~		
		Level Adjust		Reset		~		
		Touch Screen	Settings	On		~		
		Eye-Fi		On	~	~	~	76
		m/ft *		m				
		EVF Adjust	EVF Auto Luminance	On				
			EVF Adjust	J ⁼ ±0, ☆ ±0]			
		EVF Auto Swit	ch	On		~		
		While Exposin	g IS	Off	~	~		

* Displayed when MF is selected.

List of settings available in each shoot	ing mode
--	----------

	AUTO	P/A/S/M	C1/C2	li			
				Standard	Fun Frames		
Z	_	~	~	-	—		
Highlight&Shadow	_	~	~	_	—		
IS Mode	~	~	~	~	>		
Picture Mode	—	~	~	_	_		
WB		~	~	~	>		
	*1	~	~	_	_		
Aspect	~	~	~	_	_		
🗖 Image Quality	*	~	~	~	*		
P Image Quality	*1	~	~				
\$	*1	*1	~	~	*		
<u>\$7</u>	_	~	~	~	~		
Metering	_	~	~	_	_		
AF Mode	~	~	~	*1	*1		
ISO	_	*1	~	~	~		
Face Priority	_	~	~	_	—		
ND Filter Setting	_	~	~	~	~		
Movie 🍨	~	~	~				
Digital Tele-converter	~	~	~	_	_		
	~	~	~	~	~		

*1 Some functions cannot be set.

List of SCN settings

	Q	•		Ð	*	R	ځ.	site T	巊		2		2
Z	—	—	—	~	—	—	—	—	—	—	—	_	_
Highlight&Shadow	_	—	_	~	—	—	—	-	—	—	_	_	_
IS Mode	~	~	~	~	~	~	~	~	~	~	~	~	~
Picture Mode	—	—	—	~	—	—	—	—	—	—	—	—	—
WB	—	—	—	~	—	—	-	-	—	—	—	—	—
□ /᠔	*1	*1	*1	—	*1	*1	*1	*1	*1	*1	*1	*1	*1
Aspect	~	~	~	~	~	~	~	~	~	—	~	>	~
Image Quality	~	*1	~	~	~	~	~	~	~	*1	~	~	~
P Image Quality	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
\$	*1	*1	—	*1	*1	—	*1	-	—	—	_	*1	*1
<u>\$7</u>	_	—	—	~	—	—	—	-	—	—	_	_	_
Metering	_	—	_	—	—	—	—	-	—	—	_	_	_
AF Mode	_	—	—	—	—	—	—	-	—	—	_	~	_
ISO	_	—	_	~	—	—	-	-	_	—	_	_	_
Face Priority	~	~	~	~	~	~	~	~	—	—	~	~	~
ND Filter Setting	_	—	_	~	—	—	—	-	—	~	_	_	_
Movie 🍨	~	~	~	~	~	~	~	~	~	~	~	~	~
Digital Tele-converter	~	~	~	~	~	~	~	~	~	~	~	~	~
	~	~	~	~	~	~	~	~	~	~	~	>	~

*1 Some functions cannot be set.

13 Information
List of ART settings

	Pop Art	Soft Focus	Pale& Light Color	Light Tone	Grainy Film
Z	~	~	~	~	~
Highlight&Shadow	~	~	~	~	~
IS Mode	~	~	~	~	~
Picture Mode	_	_	—	—	—
WB	~	~	~	~	~
	*1	*1	*1	*1	*1
Aspect	~	~	~	~	~
🗖 Image Quality	~	~	~	~	~
P Image Quality	*1	*1	*1	*1	*1
4	~	~	~	~	~
572	~	~	~	~	~
Metering	~	~	~	~	~
AF Mode	~	~	~	~	~
ISO	~	~	~	~	~
Face Priority	~	~	~	~	~
ND Filter Setting	~	~	~	~	~
Movie 🎐	~	~	~	~	~
Digital Tele-converter	~	~	~	~	~
	~	~	~	~	~

	Pin Hole	Diorama	Cross Process	Gentle Sepia	Dramatic Tone	Key Line
	>	~	~	~	~	>
Highlight&Shadow	~	~	~	~	~	~
IS Mode	>	~	~	~	~	>
Picture Mode	_	—	—	—	—	—
WB	>	~	~	~	~	~
	*1	*1	*1	*1	*1	*1
Aspect	>	~	~	~	~	>
Image Quality	>	~	~	~	~	~
P Image Quality	*1	*1	*1	*1	*1	*1
4	~	~	~	~	~	~
<u>\$7</u>	~	~	~	~	~	~
Metering	~	~	~	~	~	~
AF Mode	>	~	~	~	~	~
ISO	~	~	~	~	~	~
Face Priority	~	~	~	~	~	~
ND Filter Setting	~	~	~	~	~	~
Movie 🎐	~	~	~	~	~	~
Digital Tele-converter	~	~	~	~	~	~
	~	~	~	~	~	~

*1 Some functions cannot be set.

13 Information

Specifications

Camera

Product type			
Product type	Compact digital camera		
Image pickup device			
Product type	1/1.7" CMOS sensor		
No. of effective pixels	Approx. 12,000,000 pixels		
Aspect ratio	1.33 (4:3)		
Viewfinder			
Туре	Electronic viewfinder with eye sensor		
No. of pixels	1,440,000 dots		
Magnification	100%		
Eye point	Approx. 18.0 mm (–1 m ⁻¹)		
Monitor			
Product type	3.0" TFT color LCD display, touch screen		
Total no. of pixels	Approx. 1,040,000 dots (aspect ratio 3:2)		
Lens			
20110	Olympus lens 6.0 to 64.3 mm, f2.8		
	(Equivalent to 28 to 300 mm on a 35 mm film)		
ND Filter			
	3 EV equivalent		
Shutter			
Shutter speed	1/2000-60 sec., bulb photography		
Shooting range			
	0.1 m (4 inch) to ∞ (W), 0.8 m (2.6 ft.) to ∞ (T) (Normal/Macro) 0.05 m (2 inch) to 0.6 m (2 ft.) (super macro mode)		
Auto focus			
Product type	Imager contrast detection system		
Focusing points	Maximum of 35 points		
Exposure control			
Metering system	TTL metering system (imager metering)		
wetening system	ESP metering/Center weighted averaging metering/Spot metering/ Selected target metering		
Metered range	EV-3-17 (ESP metering/Center weighted averaging metering/Spot		
	EV–3-17 (ESP metering/Center weighted averaging metering/Spot metering)		
ISO sensitivity			
ISO sensitivity Exposure compensation	metering) 100-12800 (1/3 EV step)		
,	metering)		
Exposure compensation	metering) 100-12800 (1/3 EV step)		
Exposure compensation White balance	metering) 0		
Exposure compensation White balance Mode setting	metering) 0		
Exposure compensation White balance Mode setting Recording	metering) 00-12800 (1/3 EV step) ±3EV (1/3 EV step) Auto/Preset WB (6 settings)/Customized WB/One-touch WB		
Exposure compensation White balance Mode setting Recording Memory	metering) 100-12800 (1/3 EV step) ±3EV (1/3 EV step) Auto/Preset WB (6 settings)/Customized WB/One-touch WB SD/SDHC/SDXC (supports UHS-I), Eye-Fi card Digital recording, JPEG (in accordance with Design rule for Camera File		
Exposure compensation White balance Mode setting Recording Memory Recording system	metering) 00-12800 (1/3 EV step) ±3EV (1/3 EV step) Auto/Preset WB (6 settings)/Customized WB/One-touch WB SD/SDHC/SDXC (supports UHS-I), Eye-Fi card Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), RAW Data Exif 2.3, Digital Print Order Format (DPOF), PRINT Image Matching III,		
Exposure compensation White balance Mode setting Recording Memory Recording system Applicable standards	metering) 00-12800 (1/3 EV step) ±3EV (1/3 EV step) Auto/Preset WB (6 settings)/Customized WB/One-touch WB SD/SDHC/SDXC (supports UHS-I), Eye-Fi card Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), RAW Data Exif 2.3, Digital Print Order Format (DPOF), PRINT Image Matching III, PictBridge		

Playback		
Display format	Single-frame playback/Close-up playback/Index display	
External connector		
	Multi-connector (USB connector, AV connector)/ HDMI micro connector (Type D)	
Automatic calendar syst	em	
	2000 up to 2099	
Power supply		
Battery	One Olympus lithium ion battery (BLS-50)	
Dimensions/weight		
Dimensions	116.2 mm (W) × 87 mm (H) × 56.5 mm (D) (4.6" × 3.4" × 2.2") (excluding protrusions)	
Weight	Approx. 402 g (14.0 oz.) (including battery and memory card)	
Operating environment		
Temperature	0 °C-40 °C (32 °F-104 °F) (operation)/ -20 °C-60 °C (-4 °F-140 °F) (storage)	
Humidity	30%-90% (operation)/10%-90% (storage)	

■ Lithium ion battery

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

Lithium ion charger

MODEL NO.	BCS-5
Rated input	AC 100 V - 240 V (50/60 Hz)
Rated output	DC 8.35 V, 400 mA
Charging time	Approx. 3.5 hours (room temperature)
Ambient temperature	0 °C - 40 °C (32 °F - 104 °F) (operation)/ -20 °C - 60 °C (-4 °F - 140 °F) (storage)
Dimensions	Approx. 62 mm (W) × 38 mm (H) × 83 mm (D) (2.4" × 1.5" × 3.3")
Weight (without AC cable)	Approx. 70 g (0.2 lb.)

• The AC cable supplied with this device is for use only with this device and should not be used with other devices. Do not use cables for other devices with this device.

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13 Information



A

SAFETY PRECAUTIONS



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

instructions in the documentation provided with the product.

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

WARNING!

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

General Precautions

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

Handling the Battery

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

- The camera uses a lithium ion battery specified by Olympus. Charge the battery with the specified charger. Do not use any other chargers.
- Never incinerate or heat batteries in microwaves, on hot plates, or in pressure vessels, etc.
- Never leave the camera on or near electromagnetic devices. This may cause overheating, burning, or exploding.
- · Do not connect terminals with any metallic objects.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jeweily, pins, fasteners, keys, etc.
 The short circuit may cause overheating, exploding, or burning, which burn or damage you.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- 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.

Handling the Camera

- Do not use the camera near flammable or explosive gases.
- Do not use or store the camera in dusty or humid places.
- 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.
- 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.

- Should you notice that the charger is emitting smoke, heat, or an unusual noise or smell, immediately cease use and unplug the charger from the power outlet, and then contact an authorized distributor or service center.
- · Do not cover the flash with a hand while firing.

Handling the Battery

- · Keep batteries dry at all times.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Insert the battery carefully as described in the operating instructions.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use 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.

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.

Handling the Camera

- Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.
 - Never remove the batteries with bare hands, which may cause a fire or burn your hands.
- Never hold or operate the camera with wet hands. This may cause overheating, exploding, burning, electrical shocks, or malfunctions.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects and cause serious damage.
- Do not leave the camera in places where it may be subject to extremely high temperatures.
 - Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire. Do not use the charger if it is covered (such as a blanket). This could cause overheating, resulting in fire.

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

- When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
 - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a lowtemperature 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.
- 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.

Handling the Battery

- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the camera.
- Always unload the battery from the camera before storing the camera for a long period.
- When storing the battery for a long period, select a cool location for storage.
- 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.
- Power consumption by the camera varies depending on which functions are used.

During the conditions described below, power is consumed continuously and the battery becomes exhausted quickly.

- The zoom is used repeatedly.
- The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus.
- A picture is displayed on the monitor for an extended period of time.
- The camera is connected to a printer.
- Using an exhausted battery may cause the camera to turn
 off without displaying the battery level warning.
- The Olympus lithium ion battery is designed to be used only for the Olympus digital camera. Do not use the battery to other devices.
- If the battery's terminals get wet or greasy, camera contact failure may result. Wipe the battery well with a dry cloth before use.
- Always charge a battery when using it for the first time, or if it has not been used for a long period.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare battery as warm as possible. A battery that has run down at low temperatures may be restored after it is warmed at room temperature.
- Before going on a long trip, and especially before traveling abroad, purchase extra batteries. A recommended battery may be difficult to obtain while traveling.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.
- Do not allow children or animals/pets to handle or transport batteries (prevent dangerous behaviour such as licking, putting in mouth or chewing).

Use Only Dedicated Rechargeable Battery and Battery Charger

We strongly recommend that you use only the genuine Olympus dedicated rechargeable battery and battery charger with this camera.

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

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 Caution

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

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

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET66 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

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

Declaration of Conformity Model Number: STYLUS 1s Trade Name: OLYMPUS

Responsible Party:

OLYMPUS IMAGING AMERICA INC.

Address:	3500 Corporate Parkway, P.O. Box 610, Center Valley, PA 18034-0610, USA
Telephone Number	r: 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 IMAGING AMERICA INC. PRODUCTS

Olympus warrants that the enclosed Olympus® inaging 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 Iaw.

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

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

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

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

THE CUSTOMER ACKNOWLEDGES AND AGREES THAT OLYMPUS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES THAT THE CUSTOMER MAY INCUR FROM DELAYED SHIPMENT, PRODUCT FAILURE, PRODUCT DESION, 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 INDIRENT, 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.olvmpusamericalatina.com

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

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

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:

- Sales receipt showing date and place of purchase. Handwritten receipts will not be accepted;
- 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
- 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.

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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 Imaging Corp. and Olympus Europa SE & Co. KG declare that this STYLUS 1s is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For details visit: http://www.olympuseuropa.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:

- 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.
- Since this Warranty Certificate will not be re-issued, keep it in a safe place.
- 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.

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

For customers in Thailand

This telecommunication equipment conforms to NTC technical requirement.

For customer in Singapore

Complies with IDA Standards DB104634

Trademarks

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



- Powered by ARCSOFT.
- 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).

OLYMPUS KOREA CO., LTD.

10F 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 Kuala Lumpur, Malaysia. Tel:+603-6411 0000/Fax:+603-6411 0003 E-mail: service.oml@olympus-ap.com

BRANCHES:

PENANG OFFICE Suite 3A-6, Level 3A, Wisma Great Eastern No.25, Lebuh Light, 10200 Penang Tel:+604 262 2832/ Fax:+604 262 5832

http://www.olympus.com.my

OLYMPUS (Thailand) CO., LTD.

23/112 Sorachai Building ,27th Floor,Soi Sukhumvit 63 (Ekamai) Sukhumvit road Klongton Nua,Wattana , Bangkok 10110 Thailand Tel: 662 787 8200 date of issue 2014.09.



http://www.olvmpus.com/

OLYMPUS IMAGING AMERICA INC. =

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

24/7 online automated help: http://www.olympusamerica.com/support Phone customer support: Tel. 1-800-260-1625 (Toll-free)

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

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:

Xinyuan South Road, Chaoyang District, Beijing Zip: 100027

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

Unit A301, Mingyuan Business Center, No.1199 Middle Fuxing Road, 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@olvmpus-ap.com http://www.olympus.com.hk