DIGITAL CAMERA

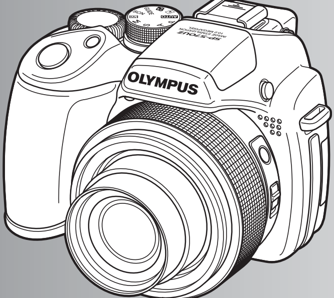
OLYMPUS®

SP-570UZ

Advanced Manual

Quick Start Guide

This manual will help you get started using your camera right away.



Button operations

Menu operations

Printing pictures

Using OLYMPUS Master

Getting to know your camera better

Appendix

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

Contents

Quick Start Guide P.3

Camera diagram P.11

Learn the names of the camera parts and get a general grasp of the camera’s functions. Use this section as reference for the functions.

Button operations P.16

Test out the functions of the camera buttons by following the illustrations and trying them out on the camera.

Operations using the control panel P.29

Learn how to use the control panel to perform basic operations, and then try them out.

Menu operations P.32

Learn everything about the menus, from basic operations to the functions of each menu and their various settings.

Printing pictures P.59

Learn how to print pictures you have taken.

Using OLYMPUS Master P.64

Learn how to transfer and save pictures to a computer.

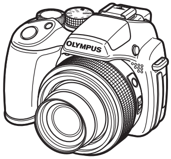
Getting to know your camera better P.68

Find out more about your camera and learn what to do when you have a question regarding operations.

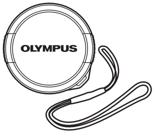
Appendix P.81

Read about convenient functions and safety precautions on how to use your camera more effectively.

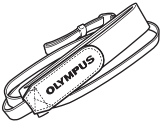
Gather these items (box contents)



Digital Camera

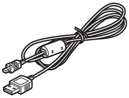


Lens Cap
Lens Cap String

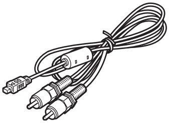


Strap

AA Batteries (four)



USB cable



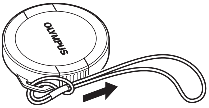
AV Cable

OLYMPUS Master 2
CD-ROM

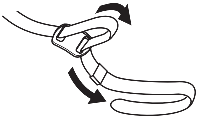
Items not shown: Advanced Manual (this manual), Basic Manual and warranty card.
Contents may vary depending on purchase location.

Attach the strap and the lens cap

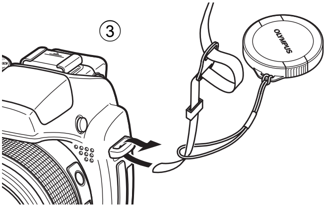
①



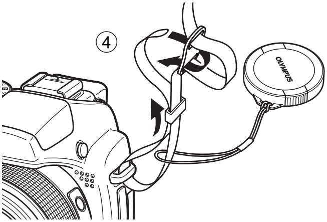
②



③



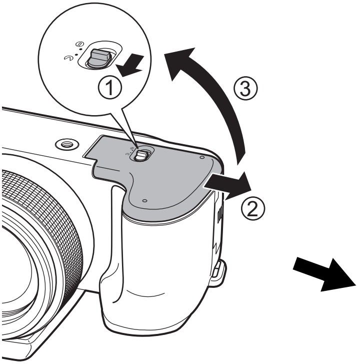
④

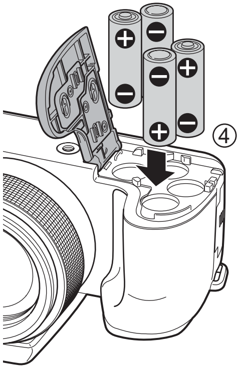


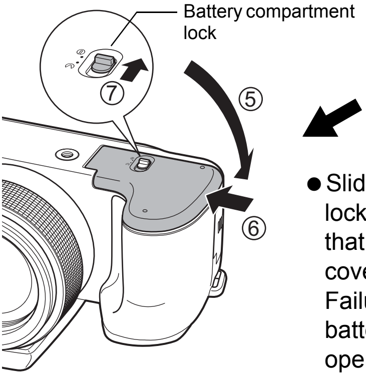
- Attach the strap to the other eyelet in the same manner.

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

a. Load batteries into the camera

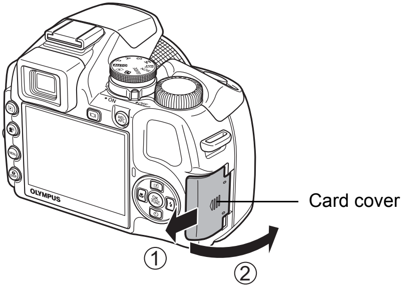


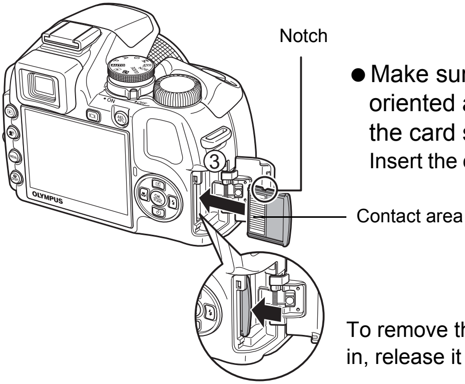




- Slide the battery compartment lock from < to ⊖ and ensure that the battery compartment cover is securely locked (⑦). Failure to do so may cause the battery compartment cover to open during shooting and the batteries to fall out, resulting in loss of image data.

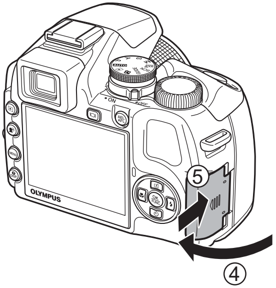
b. Insert the (optional) xD-Picture Card into the camera





- Make sure the card is correctly oriented and insert it straight into the card slot.
  Insert the card until it clicks into place.

To remove the card, push it all the way in, release it slowly and remove.

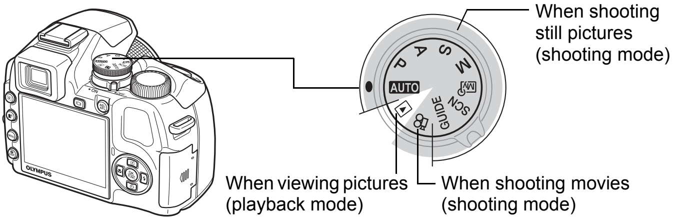


- This camera allows you to take pictures without using an optional xD-Picture Card™ (hereinafter called the card). When taking pictures without the card, pictures will be stored in the internal memory.
  For details on the card, please refer to “The card” (P.85).

Turn the camera on

This explains how to turn on the camera in shooting mode.

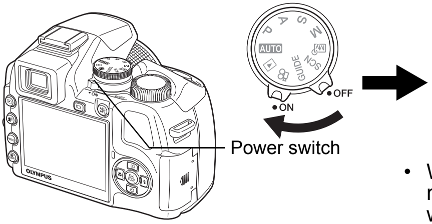
a. Set the mode dial to AUTO.

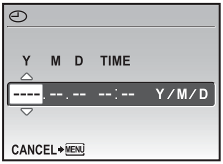

When shooting still pictures (shooting mode)
When viewing pictures (playback mode)
When shooting movies (shooting mode)
P
A
S
M
AUTO
SCN
GUIDE
OLYMPUS

Still picture shooting modes

AUTO	The camera determines the optimum settings for the shooting conditions automatically.
P	The camera automatically sets the optimum aperture value and shutter speed.
A	This function allows you to change the aperture manually.
S	This function allows you to change the shutter speed manually.
M	This function allows you to change the aperture and shutter speed manually.
My	This function allows you to set each shooting function manually and use as your original shooting mode.
SCN	This function allows you to shoot pictures by selecting a scene according to the shooting condition.
GUIDE	This function allows you to set the target items by following the shooting guide displayed on the screen.

b. Remove the lens cap and set the camera's power switch to ON.



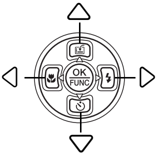


- When the date and time have not yet been set, this screen will appear.

● To turn off the camera, set the power switch to OFF.

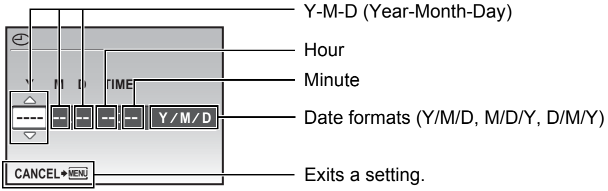
Tips

The directions of the arrow pad are indicated with △▽◁▷ in this manual.



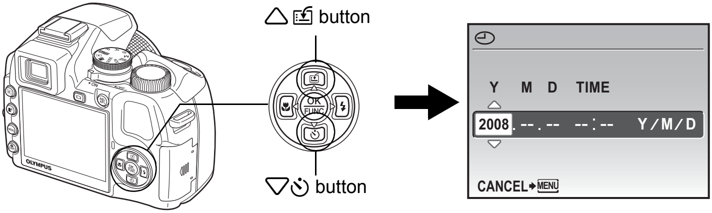
Set date and time

About the date and time setting screen

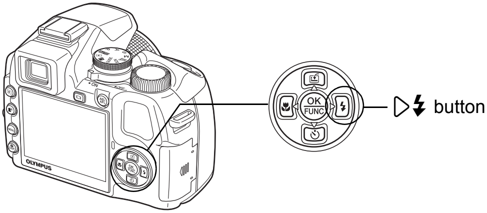


a. Press the △ button and the ▽ button to select [Y].

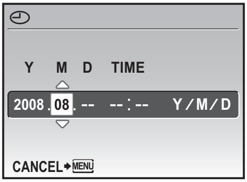
- The first two digits of [Y] are fixed.



b. Press the ▷⚡ button.

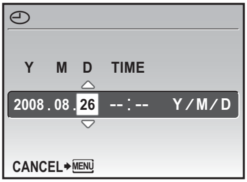


c. Press the △ button and the ▽ button to select [M].



d. **Press the ▷⚡ button.**

e. **Press the △⎙ button and the ▽⏲ button to select [D].**



Y M D TIME

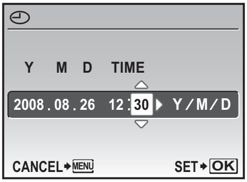
2008 . 08 . 26 -- : -- Y / M / D

CANCEL → MENU

f. **Press the ▷⚡ button.**

g. **Press the △⎙ button and the ▽⏲ button to select the hours and minutes.**

- The time is displayed in the 24-hour format.



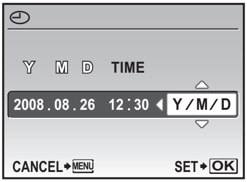
Y M D TIME

2008 . 08 . 26 12 : 30 ▸ Y / M / D

CANCEL → MENU SET → OK

h. **Press the ▷⚡ button.**

i. **Press the △⎙ button and the ▽⏲ button to select [Y/M/D].**



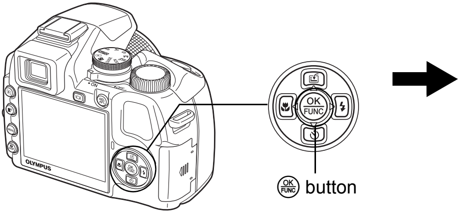
Y M D TIME

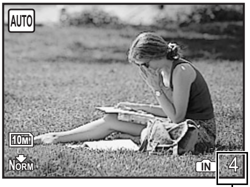
2008 . 08 . 26 12 : 30 ◂ Y / M / D

CANCEL → MENU SET → OK

j. **After all items have been set, press the OK FUNC button.**

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

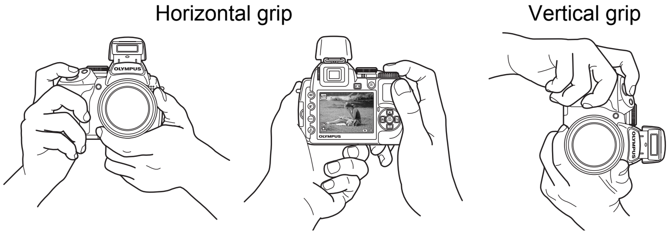




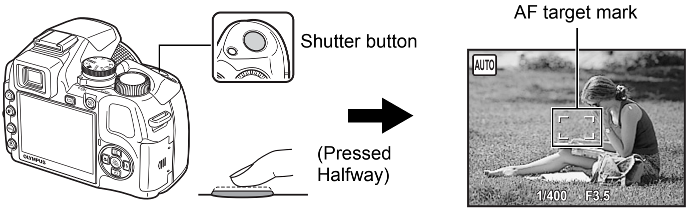
The number of remaining still pictures is displayed.

Take a picture

a. Hold the camera

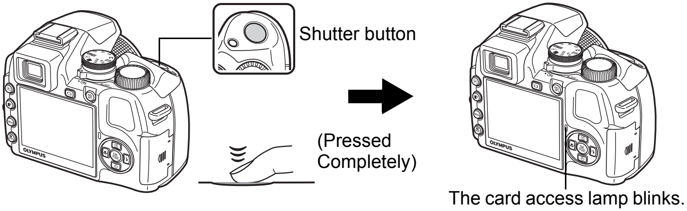


b. Focus



- The AF target mark lights in green when the focus and exposure are locked. The shutter speed and aperture value are displayed.
- If the AF target mark blinks in red, the focus is not adjusted properly. Try locking the focus again.

c. Shoot

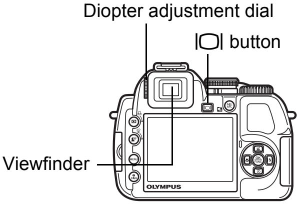


Adjusting the viewfinder’s focus using the diopter

a. Press the |◯| button.

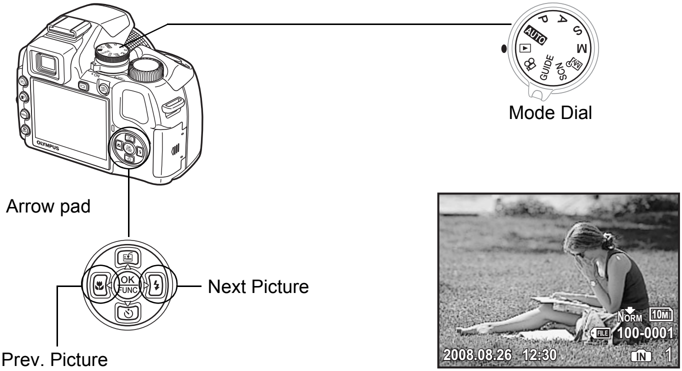
b. While looking through the viewfinder, rotate the diopter adjustment dial little by little.

- When you can see the icons in the viewfinder clearly, adjustment is complete.



View pictures

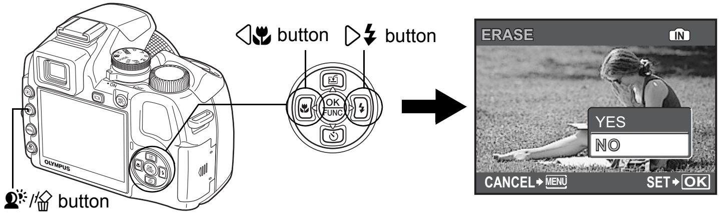
a. Set the mode dial to ▶.



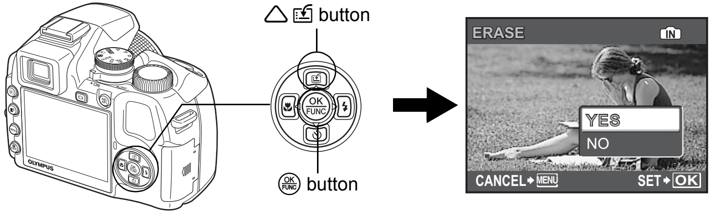
Erase pictures

a. Press the ◁🌷 button and the ▷⚡ button to display the picture you want to erase.

b. Press the 👤/🗑 button.

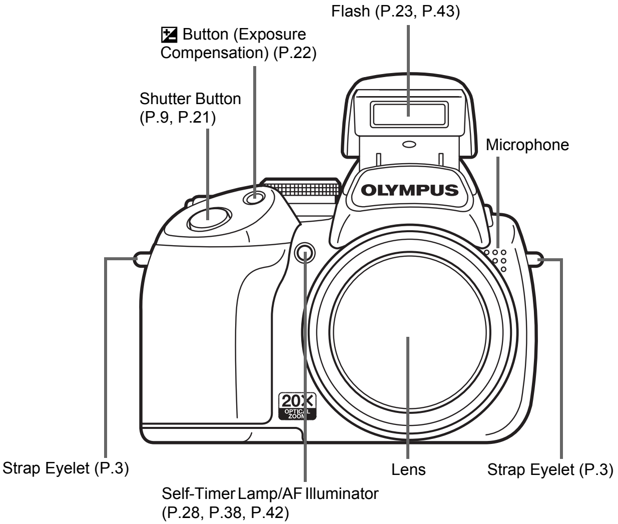


c. Press the △🖨 button to select [YES], and press the OK FUNC button to erase the picture.

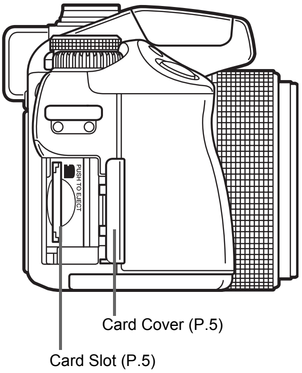


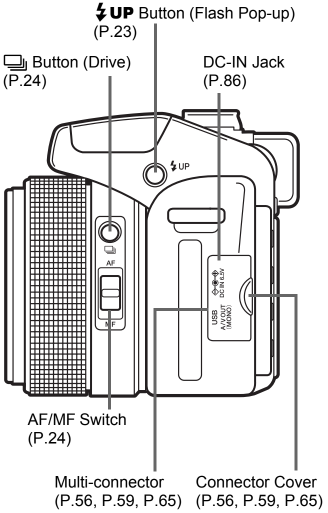
Camera diagram

Camera

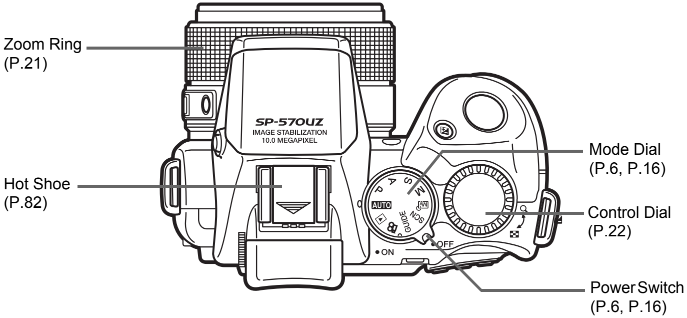


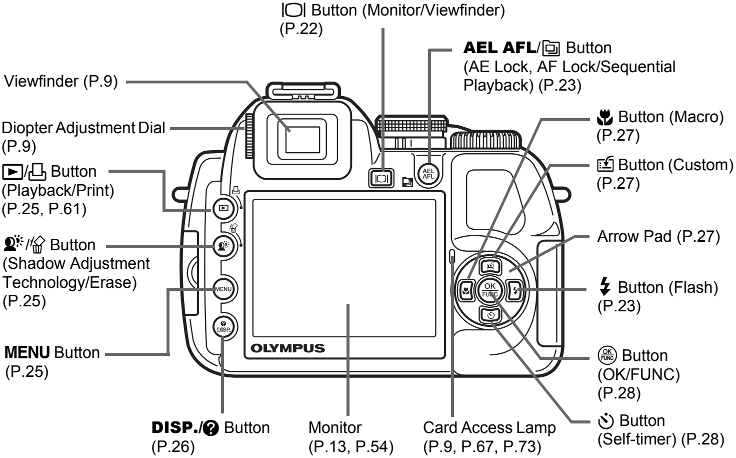
Flash (P.23, P.43)
± Button (Exposure Compensation) (P.22)
Shutter Button (P.9, P.21)
Microphone
OLYMPUS
20X OPTICAL ZOOM
Strap Eyelet (P.3)
Lens
Strap Eyelet (P.3)
Self-Timer Lamp/AF Illuminator (P.28, P.38, P.42)

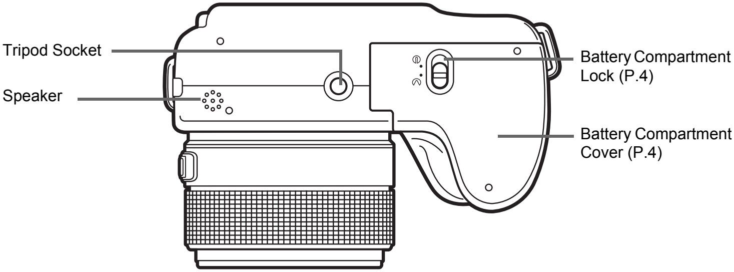




⚡UP Button (Flash Pop-up) (P.23)
❏ Button (Drive) (P.24)
DC-IN Jack (P.86)
⚡UP
AF
MF
DC IN 6.5V
USB A/V OUT (MONO)
AF/MF Switch (P.24)
Multi-connector (P.56, P.59, P.65)
Connector Cover (P.56, P.59, P.65)

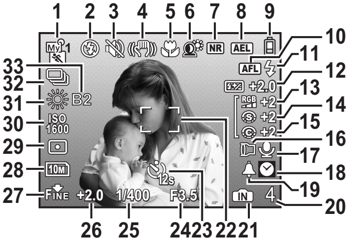

Zoom Ring (P.21)
Hot Shoe (P.82)
Mode Dial (P.6, P.16)
Control Dial (P.22)
Power Switch (P.6, P.16)
SP-570UZ
IMAGE STABILIZATION
10.0 MEGAPIXEL
AUTO
P
A
S
M
MY
SCN
GUIDE
ON
OFF


|◻| Button (Monitor/Viewfinder) (P.22)
AEL AFL/⧉ Button (AE Lock, AF Lock/Sequential Playback) (P.23)
Viewfinder (P.9)
Diopter Adjustment Dial (P.9)
▶/⎙ Button (Playback/Print) (P.25, P.61)
Button (Shadow Adjustment Technology/Erase) (P.25)
MENU Button (P.25)
DISP./? Button (P.26)
Monitor (P.13, P.54)
Card Access Lamp (P.9, P.67, P.73)
Button (Macro) (P.27)
Button (Custom) (P.27)
Arrow Pad (P.27)
Button (Flash) (P.23)
OK FUNC Button (OK/FUNC) (P.28)
Button (Self-timer) (P.28)
MENU
DISP.
AEL AFL
OK FUNC
OLYMPUS

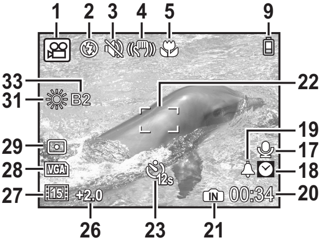

Tripod Socket
Speaker
Battery Compartment Lock (P.4)
Battery Compartment Cover (P.4)

Monitor Symbols & Icons

● Shooting mode



Still picture

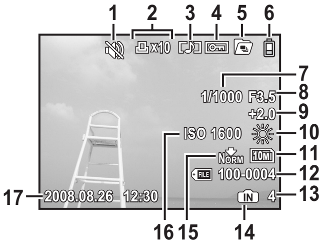


Movie

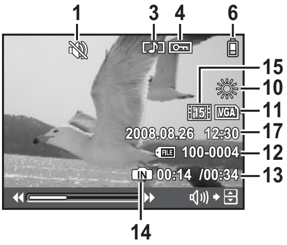
	Item	Indication	Ref. Page
1	Shooting mode	AUTO, P, 👤, ⛰, My2, 🎥, etc.	P.6, P.16, P.37
2	Flash mode	👁, ⚡, 👁⚡, ⊘, etc.	P.23
3	Silent mode	🔇	P.45
4	Digital image stabilization	✋	P.42
5	Macro mode Super macro mode	🌷 S🌷	P.27
6	Shadow Adjustment Technology	👤	P.25
7	Noise reduction	NR	P.44
8	AE lock mark	AEL	P.23
9	Battery check	🔋 = full power, 🔋 = low power	P.76
10	AF lock mark Manual focus AF predict	AFL MF AF	P.23 P.24 P.42
11	Flash standby Camera movement warning/Flash charge	⚡ Lit ⚡ Blinks	P.68
12	Flash intensity control	⚡± -2.0 - +2.0	P.42
13	Saturation	RGB -5 - +5	P.44
14	Sharpness	S -5 - +5	P.44
15	Contrast	C -5 - +5	P.44
16	Conversion lens	▯	P.45
17	Sound record	🎙	P.50
18	Dual time	🕒	P.55
19	Alarm	🔔	P.55
20	Number of storable still pictures Remaining recording time	4 00:34	P.8 P.72

	Item	Indication	Ref. Page
21	Current memory	IN: Pictures are recorded to the internal memory No indication: Pictures are recorded to the card	P.85
22	AF target mark	[ ]	P.9, P.21, P.41
23	Self-timer	⏲2s, ⏲12s	P.28
24	Aperture value	F2.8 to F8.0	P.17
25	Shutter speed	15", 1/2, 1/400, 1/2000, BULB, etc.	P.17
26	Exposure compensation	-2.0 - +2.0	P.22
27	Image quality Compression Frame rate	RAW, RAW JPEG NORM (Normal), FINE (Fine) 15 (15 frames/sec.), 30 (30 frames/sec.)	P.34 P.34 P.35
28	Image size	10M, 5M, 16:9, VGA, etc.	P.34
29	Spot metering	⊡, ◎	P.41
30	ISO	ISO 100, ISO 800, ISO 1600 etc.	P.40
31	White balance	☀, ☁, 💡, 1 - 3, ⊒	P.39
32	Drive	❐, Hi 1, Hi 2, PRE Hi 2, AF, **BKT**	P.24, P.40
33	White balance compensation	B1 - B7, R1 - R7	P.43

● Playback mode



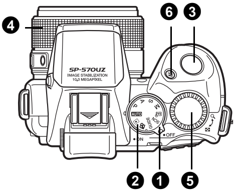
Still picture

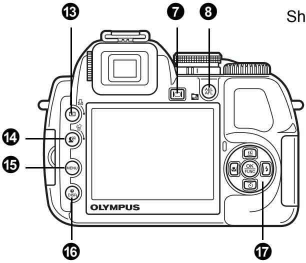


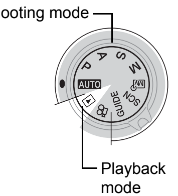
Movie

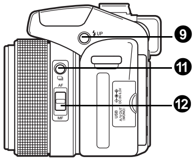
	Item	Indication	Ref. Page
1	Silent mode	🔇	P.45
2	Print reservation/Number of prints	🖶x10	P.62
3	Sound record	[♪]	P.50
4	Protect	O-π	P.50
5	Sequential Playback/Sequential Pictures Auto Playback	▣	P.20
6	Battery check	▮ = full power, ▯ = low power	P.76
7	Shutter speed	15", 1/2, 1/60, 1/1000, etc.	P.17
8	Aperture value	F2.8 to F8.0	P.17
9	Exposure compensation	-2.0 - +2.0	P.22
10	White balance	WB AUTO, ☼, ☁, ☀, ≡1 - ≡3, ⌂	P.39
11	Image size	10M, 5M, 16:9, VGA, etc.	P.34
12	File number	FILE 100-0004	P.54
13	Frame number Playing time/Total recording time	4 00:14/00:34	— P.19
14	Current memory	[IN]: Playing back the picture in the internal memory No indication: Playing back the picture in the card	P.85
15	Image quality Compression Frame rate	RAW NORM (Normal), FINE (Fine) 15 (15 frames/sec.), 30 (30 frames/sec.)	P.34 P.34 P.35
16	ISO	ISO 100, ISO 800, ISO 1600 etc.	P.40
17	Date and time	2008.08.26 12:30	P.7, P.54

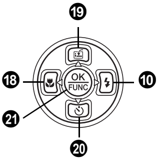
Button operations

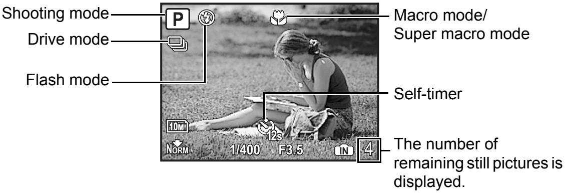












❶ Power switch

Turning the camera on and off

Power on:

Shooting mode
- Monitor turns on
- Lens extends

Playback mode
- Monitor turns on

❷ Mode dial

Switching between shooting and playback modes

Set the mode dial to the desired shooting or playback mode.

- Some functions cannot be set depending on the position of the mode dial.

☞ "Functions available in shooting modes" (P.79)

AUTO Shooting pictures with full automatic settings

The camera determines the optimum settings for the shooting conditions automatically. Settings in the [CAMERA MENU] such as WB and ISO sensitivity cannot be changed.

P Set the optimum aperture value and shutter speed

The camera automatically sets the optimum aperture value and shutter speed for the brightness of the subject.
Settings in the [CAMERA MENU] such as WB and ISO sensitivity can be changed.

A Changing the aperture value for shooting pictures

A
10M
NORM
1/1000
F4.0
IN
4

Adjustment range
W : F2.8 to F8.0
T : F4.5 to F8.0

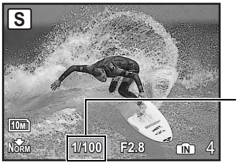
Turn the control dial. The camera automatically sets the shutter speed.

Aperture value

: Turning toward 🔍 increases the aperture value.
: Turning toward ▦ decreases the aperture value.

When the correct exposure cannot be obtained, the aperture value is displayed in red.

S Changing the shutter speed for shooting pictures



Adjustment range
1/2 to 1/1000
(When [NOISE REDUCT.] is set to [ON]: up to 4 sec.)

Turn the control dial. The camera automatically sets the aperture value.

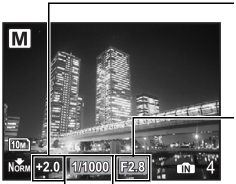
Shutter speed

: Turning toward 🔍 sets the shutter speed faster.
: Turning toward ▦ sets the shutter speed slower.

When the correct exposure cannot be obtained, the shutter speed is displayed in red.

M Changing the aperture value and shutter speed for shooting pictures

Turn the control dial. Press ☒ to switch between the aperture value and the shutter speed.



Adjustment range
Aperture value: F2.8 to F8.0 (The aperture value varies depending on the zoom position.)
Shutter speed: 15" to 1/2000 (The shutter speed varies depending on the aperture value.)

Exposure differential
When this range has been exceeded ±3.0EV, the exposure differential is displayed in red.

Aperture value

: Turning toward 🔍 increases the aperture value.
: Turning toward ▦ decreases the aperture value.

Shutter speed

: Turning toward 🔍 sets the shutter speed faster.
: Turning toward ▦ sets the shutter speed slower.

To take long exposure (bulb) shots

Turn the control dial toward ▦ to set the shutter speed to BULB. The shutter remains open as long as the shutter button is pressed. (Bulb shooting is only possible when [ISO] is set to [64] (maximum time: 8 minutes).)

My Shooting pictures with your own original modes

This mode allows you to set the shooting functions, save up to 4 shooting modes manually, and use them as your original shooting modes.

☞ "MY MODE SETUP Setting and saving shooting-related functions" (P.57)

Use the function menu or control panel to switch the registered My Mode.

☞ "My 1/2/3/4 Switching the registered original shooting mode" (P.28)
"Switching My Mode" (P.31)

SCN Shoot pictures by selecting a scene mode according to the situation

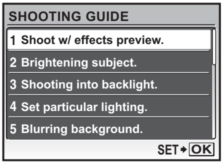
You can shoot pictures by selecting a scene mode according to the situation.

Select a scene mode/Change to another scene mode

- Press **MENU** and select [SCN] from the top menu.
- By switching to another scene mode, most settings will be changed to the default settings of the new scene mode.

☞ "**SCN** (Scene) Shooting pictures by selecting a scene according to the situation" (P.37)

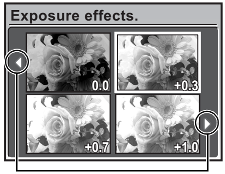
GUIDE Follow the shooting guide to take better pictures


SHOOTING GUIDE
1 Shoot w/ effects preview.
2 Brightening subject.
3 Shooting into backlight.
4 Set particular lighting.
5 Blurring background.
SET→OK

This function allows you to set the target items by following the shooting guide displayed on the screen.

- Press **MENU** to display the shooting guide again.
- To change the setting without using the shooting guide, select another shooting mode.
- Functions set using the shooting guide will revert to the default settings when **MENU** is pressed or when the shooting mode is changed.

Shooting pictures by comparing previews of different effects



Use ◁▷ to change the display.

When [Exposure effects.] is selected

Select one of the [1 Shoot w/ effects preview.] options from the [SHOOTING GUIDE] menu to preview a live, multi-frame window on the monitor showing different levels of the selected shooting effect. You can use the four preview frames to compare the desired settings/effects.

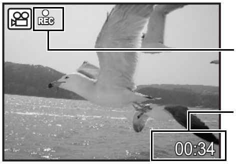
- Use the arrow pad to select the frame with the desired settings, and press OK. The camera automatically switches to shooting mode and allows you to shoot with the selected effect.

Recording movies

When [🎙] (movies) is set to [ON], audio is recorded with the movie.

- When recording with sound, only the digital zoom can be used. To use the optical zoom, set [🎙] (movies) to [OFF]. To zoom in when recording with sound, set [DIGITAL ZOOM] to [ON].

☞ "🎙 (movies) Recording sound with movies" (P.45)
"DIGITAL ZOOM Zooming in on your subject" (P.41)



This icon lights red during movie recording.

The remaining recording time is displayed.
When the remaining recording time reaches 0, recording will stop automatically.

- When [IMAGE STABILIZER] is set to [ON], continuous movie recording for a long period will cause the camera's internal temperature to rise and the camera may stop operation automatically. Remove the battery and allow the camera to cool down for some time before you begin shooting again. Or you can set [IMAGE STABILIZER] to [OFF].
  In addition, the temperature of the camera's exterior also rises during usage. This is not a malfunction.

▶ Viewing pictures you have taken/Selecting playback mode

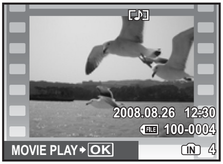
The last picture taken is displayed.

- Press the arrow pad to view other pictures.
- Use the control dial to switch between close-up playback, index display and calendar display.

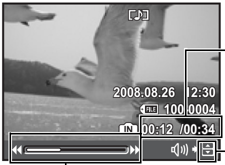
☞ "Control dial Index display/Calendar display/Close-up playback" (P.22)

Playing back movies

Select a movie in the playback mode and press OK/FUNC to play.



Operations during movie playback



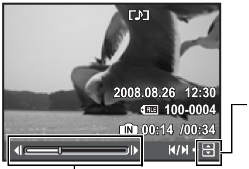
Playing time/Total recording time

△ : Increases the volume.
▽ : Reduces the volume.

▷ : Each time you press the button, the playback speed changes in the following order: 2×; 20×; and back to 1×.
◁ : Plays the movie in reverse. Each time you press the button, the playback speed changes in the following order: 1×; 2×; 20×; and back to 1×.

- Press OK/FUNC to pause the playback.

Operations during pause



△ : Displays the first frame.
▽ : Displays the last frame.

▷ : Displays the next frame.
◁ : Displays the previous frame.

- To resume the movie, press (OK).
- To cancel the playback of the movie in the middle of it or during pause, press **MENU**.

Viewing panoramic pictures taken with [COMBINE IN CAMERA 1] [COMBINE IN CAMERA 2] (Panorama playback)

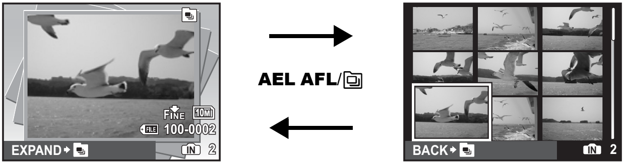
- Use the arrow pad to select a panoramic picture, and then press (OK). Scrolling from left to right or from bottom to top starts automatically.
- Turn the control dial to zoom in or out while a picture is scrolling. Use the arrow pad to change the scrolling direction of a zoomed in picture.
- To stop or resume scrolling in the original magnification, press (OK).
- To exit panorama playback, press **MENU**.

☞ "PANORAMA Taking and combining panoramic pictures" (P.36)

Displaying pictures that have been shot continuously in index view (Sequential Playback) / Auto playing back of pictures that have been shot continuously (Sequential Pictures Auto Playback)

Only the first frame will be displayed for pictures that have been shot continuously using the following options.

[▣] [Hi1▣] [Hi2▣] [AF▣] [BKT] [TIMELAPSE] [AUCTION] [SHOOT & SELECT1] [SHOOT & SELECT2] [SMILE SHOT]



- Select the pictures with ▣ icon and press **AEL AFL**/▣ to play back in index view (Sequential Playback). Press **AEL AFL**/▣ again to return to the first frame.
- Select the pictures with ▣ icon and press (OK) to play back automatically (Sequential Pictures Auto Playback).
- This function is only available for pictures taken with this model.
- When the first frame is displayed, changes to any of the following functions will be applied to all the sequential pictures in the series:

  🔑/⟲/PRINT ORDER/ERASE

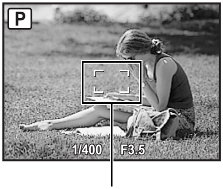
  To configure settings to individual pictures, press **AEL AFL**/▣ to display the pictures in index view first before configuring.

❸ Shutter button

Shooting pictures

Shooting still pictures

Set the mode dial to **AUTO**, **P**, **A**, **S**, **M**, MY, **GUIDE** or **SCN**, and lightly press the shutter button (halfway). The AF target mark lights in green when the focus and exposure are locked (focus lock). The shutter speed and aperture value are displayed (only when the mode dial is set to **AUTO**, **P**, **A**, **S** or **M**). Now press the shutter button all the way (completely) to shoot a picture.



AF target mark

Locking the focus and then composing the shot (Focus lock)

Compose your picture with the focus locked, and then fully press the shutter button to shoot a picture.

- If the AF target mark blinks in red, the focus is not adjusted properly. Try locking the focus again.

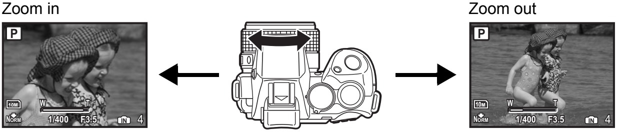
Recording movies

Set the mode dial to 🎥, and press the shutter button halfway to lock the focus, and then press the shutter button completely to start recording. Press the shutter button again to stop recording.

❹ Zoom ring

Zooming while shooting

Turn the zoom ring to zoom in on your subject when shooting.
Optional zoom ratio: 20×



❗ Note

- When the camera is mounted on a tripod, if the tripod pad is too big, it may obstruct rotation of the zoom ring.

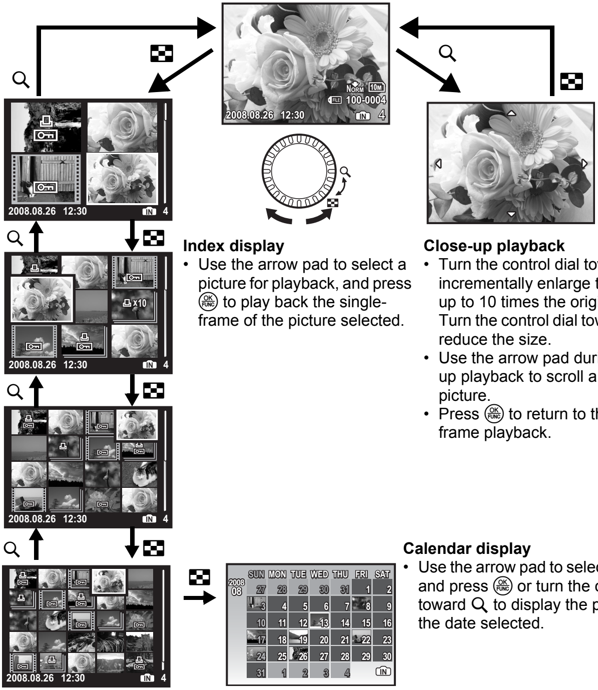
❺ Control dial

Index display/Calendar display/Close-up playback

Turn the control dial toward ▦ or 🔍 to change the picture display in playback mode.

Single-frame playback

- Use the arrow pad to browse pictures.



Index display

- Use the arrow pad to select a picture for playback, and press OK to play back the single-frame of the picture selected.

Close-up playback

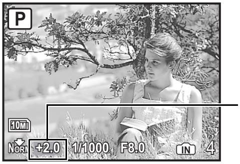
- Turn the control dial toward 🔍 to incrementally enlarge the picture up to 10 times the original size. Turn the control dial toward ▦ to reduce the size.
- Use the arrow pad during close-up playback to scroll around the picture.
- Press OK to return to the single-frame playback.

Calendar display

- Use the arrow pad to select the date, and press OK or turn the control dial toward 🔍 to display the pictures on the date selected.

❻ ± button

Changing picture brightness (Exposure Compensation)



Press ± in shooting mode and turn the control dial to adjust the brightness. Press ± again to confirm your selection.

- Adjustable from - 2.0EV to +2.0 EV

: Turn the control dial toward 🔍 to make the picture brighter.

: Turn the control dial toward ▦ to make the picture darker.

❼ |▢| button

Monitor/Viewfinder

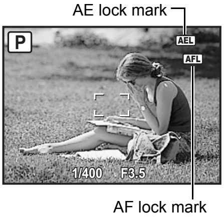
Toggles between the monitor and viewfinder.

❽ AEL AFL/⊡ button

Locking the focus position and exposure/Playing back continuously shot pictures in index display

AEL AFL Locking the focus position and exposure

Assign [AE LOCK], [AF LOCK] or [AF LOCK + AE LOCK] to **AEL AFL** so that the function concerned is enabled by pressing **AEL AFL** in shooting mode.
☞ "AEL/AFL BUTTON Registering the AE lock and AF lock functions" (P.57)



●Locking the focus position and exposure (AF lock + AE lock)

- Assign [AF LOCK + AE LOCK] to **AEL AFL**. The metering value is saved by pressing **AEL AFL** and the focus and exposure are locked. [AFL] (AF lock mark) and [AEL] (AE lock mark) are displayed on the monitor. Press **AEL AFL** again to cancel the AF lock + AE lock. Each time you press the button, the focus and exposure are locked and canceled alternately.

⊡ Playing back continuously shot pictures in index display

Only the first frame is displayed for pictures that have been shot continuously.
Press ⊡ in the playback mode to display continuously shot pictures in index view.
☞ "Displaying pictures that have been shot continuously in index view (Sequential Playback) / Auto playing back of pictures that have been shot continuously (Sequential Pictures Auto Playback)" (P.20)

❾ ⚡UP button

Flash pop-up

Opens the flash.
Press **⚡UP** to take a picture with flash.

❿ ▷⚡ button

Flash shooting

Press **⚡UP** in shooting mode to open the flash. Then press ▷⚡ to select the flash setting.
Press ㊋ to confirm your selection.

AUTO	Auto-flash	The flash fires automatically in low light or backlight conditions.
👁	Red-eye reduction flash	This emits pre-flashes to reduce the occurrence of red-eye in your pictures.
⚡	Fill-in flash	The flash fires regardless of the available light.
👁⚡	Red-eye fill-in flash	The flash always fires after pre-flashes for red-eye reduction are emitted.
🚫	Flash off	The flash does not fire.
⚡SLOW	Slow synchronization	The flash fires with slow shutter speed. The flash fires right after the shutter fully opens (1st curtain). As the flash fires with slow shutter speed, you can capture both the background, such as a night view, and the subject.
👁SLOW	Slow synchronization/ Red-eye reduction flash	While using slow synchronization (1st curtain) with flash shooting, you can also use this function to achieve red-eye reduction. Use this mode to take pictures of a person against a night view.

⚡SLOW2	Slow synchronization 2	The flash fires just before the shutter closes (2nd curtain). You can use this setting to create interesting effects in your picture, such as expressing the movement of a car by showing the tail-lights streaming backwards. The slower the shutter speed, the more pronounced the effects.

- Flash options are disabled if the pop-up flash is closed.

⑪ ❏ button **Single-frame shooting/Sequential shooting**

Press ❏ in shooting mode to select the drive mode.
Press OK/FUNC to confirm your selection.

▭	Single-frame shooting	Shoots 1 frame at a time when the shutter button is pressed.
❏	Sequential shooting	Focus and exposure are locked at the first frame. The sequential shooting speed varies depending on the image quality setting.
Hi1	High speed sequential shooting 1	Pictures can be taken at a faster speed than normal sequential shooting.
Hi2	High speed sequential shooting 2	Sequential shooting at a speed of approximately 13.5 frames/sec.
PRE Hi2	Pre-capture	Sequential shooting at a speed of approximately 13.5 frames/sec. Pressing the shutter button halfway stores 10 frames of a picture immediately before shooting.
AF	AF sequential shooting	Adjusts the focus 1 frame at a time. The shooting speed is slower than for normal sequential shooting.
BKT	Bracket shooting	Takes pictures sequentially while changing the exposure for each frame. Focus and white balance are locked at the first frame.

You can take a sequence of pictures at one time by holding down the shutter button. The camera will take pictures continuously until you release the shutter button.

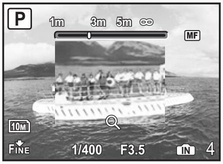
- The exposure differential and number of frames for bracket shooting can be set in [DRIVE] in the [CAMERA MENU].

☞ "DRIVE Continuous shooting" (P.40)

⑫ AF/MF switch **Changing the focus method**

Slide the AF/MF switch in shooting mode to set the focus mode.

AF	Press the shutter button halfway. The camera automatically focuses.
MF	Adjust the focus manually.



When set to [MF]

- Press ◁▷ to set the focus. During operation, the center of the frame is enlarged.
- Hold down OK/FUNC to fix the focus. The focus is locked at the distance you have set, and MF is displayed in red on the monitor. To adjust the focus, hold down OK/FUNC again.
- The distance displayed on the monitor is a reference figure.
- You can use the zoom ring or the control dial as well as ◁▷ to adjust the focus.

☞ "MANUAL FOCUS Selecting the focusing method in manual focus mode" (P.58)

⑬ ▶/⎙ button — Viewing pictures/Printing pictures

▶ Viewing pictures

Pictures you have taken are displayed on the monitor. Press ▶ in shooting mode.
Press ▶ again or press the shutter button halfway to return to shooting mode.

⎙ Printing pictures

When a printer is connected to the camera, display the picture you want to print in playback mode and press ⎙.
☞ "EASY PRINT" (P.59)

⑭ ☀/🗑 button — Brightening the subject against backlight/Erasing pictures

☀ Brightening the subject against backlight (Shadow Adjustment Technology)

Press ☀ in shooting mode to turn on or off Shadow Adjustment Technology. Press OK/FUNC to confirm your selection. A frame is displayed on the monitor around your subject's face (except for 🎥). This function makes the subject's face appear brighter, even against strong backlighting.

OFF	Shadow Adjustment Technology is deactivated.
ON	Shadow Adjustment Technology is activated.

- It may take a few seconds until the frame is displayed on the monitor.
- The faces may not be detected depending on the subject.
- When [ON] is selected, the following setting restrictions apply:
  - [METERING] is fixed at [ESP].
  - [AF MODE] is fixed at [FACE DETECT].
  - When [DRIVE] is set to any mode other than [▭], this function is only applied to the first frame.
  - [AF❐] automatically becomes [❐].

🗑 Erasing pictures

In playback mode, select the picture you want to erase and press 🗑.
- Once erased, pictures cannot be restored. Check each picture before erasing to avoid accidentally erasing pictures you want to keep.

☞ "O‑π Protecting pictures" (P.50)

⑮ MENU button (MENU)

Displays the top menu.

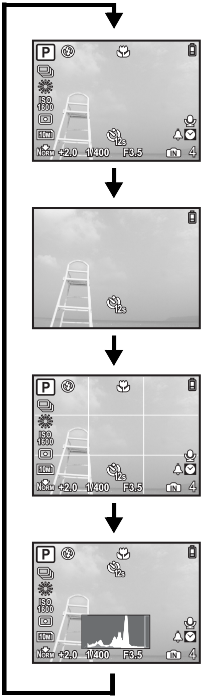
⑯ **DISP./?** button

Changing the information on display/Displaying the menu guide/Checking the time

DISP. Changing the information on display

Press **DISP.** to change the display in the following order.

Shooting mode



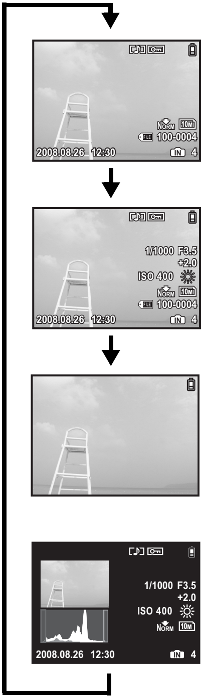
Normal display

Simple display[*1]

Frame assist (Horizontal and vertical lines or diagonal lines)[*1*2]

Histogram display[*1*2]

Playback mode



Normal display

Detailed display

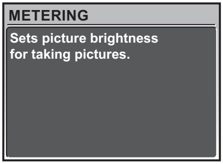
No information display

Histogram display[*1]

*1 This is not displayed when the mode dial is set to 🎥 or **GUIDE**.
*2 This is not displayed when the mode is set to [OFF] in the menu.

☞ "📊 Displaying the histogram" (P.57)
"FRAME ASSIST Displaying the frame assist/Determining the type of frame assist" (P.56)

? Displaying the menu guide



METERING

Sets picture brightness for taking pictures.

With a menu item highlighted, press and hold down ? to display the menu guide.

Checking the time

While the camera is off, press **DISP./?** to display the set alarm time (when [ALARM CLOCK] is set) and the current time for 3 seconds.

⑰ Arrow pad (△▽◁▷)

Use the arrow pad to select scenes, playback picture, and the items on the menus.

⑱ ◁🌷 button

Shooting pictures close to the subject (Macro mode)

Press ◁🌷 in shooting mode to select the macro mode.
Press OK/FUNC to confirm your selection.

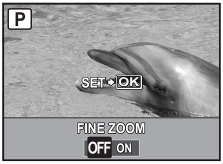
OFF	Macro mode off	Macro mode is deactivated.
🌷	Macro mode	This mode lets you shoot as close as 10 cm/3.9 in. (wide) from your subject.
S🌷	Super macro mode	This mode lets you shoot as close as 1 cm/0.4 in. from your subject.

⑲ △✎ button

Using this button as custom button

This allows you to register a frequently used function (except **AUTO**, 🎥 and **GUIDE**) to △✎. Once registered, you can set the settings directly with the button instead of displaying the screen from the menu. The default setting is [OFF].
(Example) When [FINE ZOOM] is registered in [CUSTOM BUTTON]

Press △✎ ➡



A setting screen is displayed.

☞ “CUSTOM BUTTON Assigning functions to the custom button” (P.58)
“Functions that can be assigned to My Mode/custom button” (P.78)

⑳ ▽⏲ button Self-timer shooting

Press ▽⏲ in shooting mode to select on or off for the self-timer.
Press OK/FUNC to confirm your selection.

OFF	Cancel the self-timer.
12s	After pressing the shutter button completely, the self-timer lamp lights for approximately 10 seconds, blinks for approximately 2 seconds, and then the picture is taken.
2s	After pressing the shutter button completely, the self-timer lamp blinks for approximately 2 seconds, and then the picture is taken.

- To cancel the self-timer, press ▽⏲.
- Self-timer shooting is automatically canceled after one shot.
- The self-timer cannot be used when [AF PREDICT] is [ON] or [PRE-CAPTURE] is [ON].

㉑ OK/FUNC button (OK/FUNC) Setting using the control panel or function menu

Press OK/FUNC in shooting mode to display the control panel or function menu. You can use the control panel to view the current settings and set the shooting mode functions. You can use the function menu to set frequently used functions in shooting mode.
This button is also used to confirm your selection.

- You can select whether to display the control panel or the function menu.

☞ "CONTROL PANEL Switching between the control panel and function menu" (P.53)

Setting using the control panel

☞ "Operations using the control panel" (P.29)

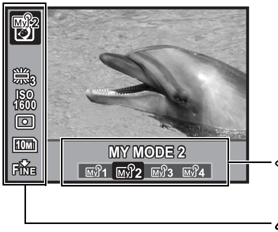
Setting using the function menu

My 1/2/3/4 .... Switching the registered original shooting mode

My1/My2/My3/My4

- Displayed when the mode dial is set to My.
- Settings are registered on **My1** as a factory default.

Function menu



◁▷ : Select a setting and press OK/FUNC.

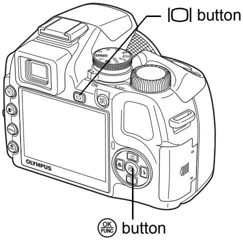
△▽ : Select the function to be set.

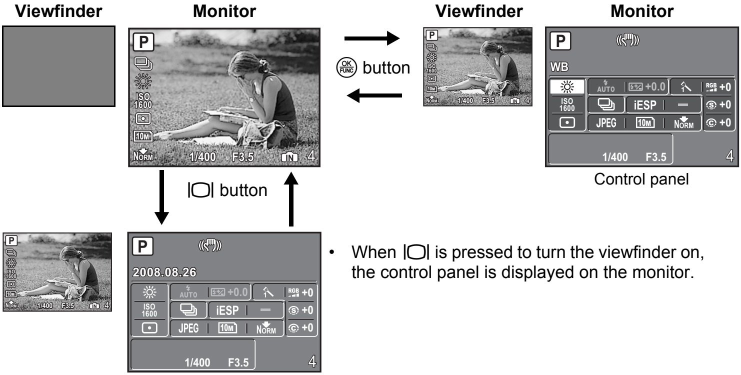
Other functions you can set with the function menu

☞ "WB Adjusting the color of a picture" (P.39)
"ISO Changing the ISO sensitivity" (P.40)
"METERING Changing the area for measuring the brightness of a subject" (P.41)
"IMAGE QUALITY Changing the image quality" (P.34)

Operations using the control panel

Pressing OK/FUNC in shooting mode displays a screen for setting and displaying shooting functions. This is called the control panel.

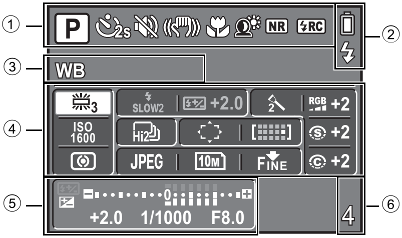




Control panel

- When |▢| is pressed to turn the viewfinder on, the control panel is displayed on the monitor.

Control panel indications



① Displays the function settings status.
- When ◁✿, △⎘, ▽⏲ or ☼ is pressed, the corresponding icon is selected and you can set the function.

☞ "Setting using the buttons" (P.31)

② The battery check and flash charging marks are displayed.

③ The name of the function selected in area ④ is displayed. The name of the function is also displayed during custom button operations. When no function has been selected, the date is displayed.

④ You can set the following functions.
- Use the arrow pad to select a function and use the control dial to change the settings.

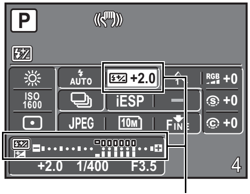
☞ "Using the control panel" (P.31)

Function	Ref. Page	Function	Ref. Page
WB	P.39	IMAGE QUALITY	P.34
FLASH MODE	P.23	IMAGE SIZE	P.34
⚡±	P.42	COMPRESSION	P.34
ISO	P.40	PICTURE MODE	P.43
DRIVE	P.40	SHARPNESS	P.44
AF MODE	P.41	CONTRAST	P.44
AREA	P.42	SATURATION	P.44
METERING	P.41		

⑤ The shutter speed, aperture value, exposure compensation value, exposure compensation indicator and flash intensity control indicator are displayed.

⑥ The number of storable still pictures/remaining recording time is displayed.

Using the control panel



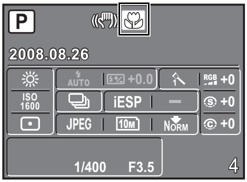
The flash intensity value and flash intensity control indicator are displayed.

(Example) To set [⚡±]

1 Press OK/FUNC to display the control panel on the monitor. The cursor lights in the function area.

2 Use the arrow pad to select [⚡±] and then use the control dial to change the settings.
- Items which cannot be selected are displayed in gray.
- Items which cannot be set are indicated by [–].

Setting using the buttons

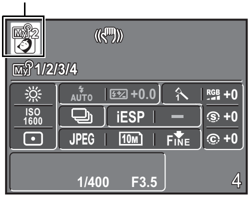


When ◁🌷 is pressed

When ◁🌷, △[±], ▽⏲ or 👤 is pressed, the corresponding icon on the control panel is selected. While its icon is selected, you can use the control dial to set the function's value.

Switching My Mode

Select this icon.

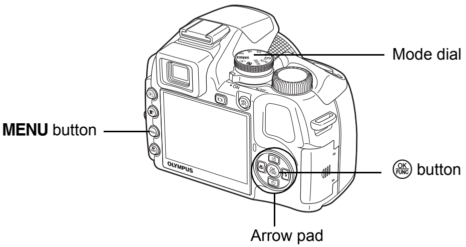


You can use this function when the mode dial is set to My. Use the arrow pad to select My and use the control dial to switch My Mode.

☞ "MY MODE SETUP Setting and saving shooting-related functions" (P.57)

Operations using the control panel

Menu operations

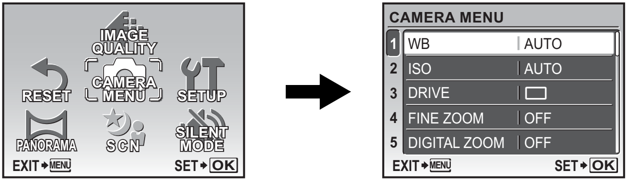


About the menus

Pressing **MENU** displays the top menu on the monitor or viewfinder.

- The items displayed on the top menu differ according to the mode.

Top menu (When Mode Dial is set to **P**)



CAMERA MENU

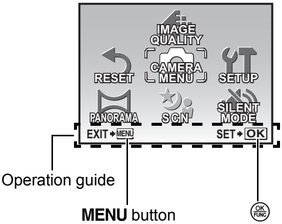
1	WB	AUTO
2	ISO	AUTO
3	DRIVE	▭
4	FINE ZOOM	OFF
5	DIGITAL ZOOM	OFF

EXIT→MENU SET→OK

- When [CAMERA MENU], [PLAYBACK MENU], [EDIT], [ERASE] or [SETUP] is selected, the menu corresponding to the respective functions is displayed.
- When your camera is set according to the shooting guide with the mode dial set at **GUIDE**, press **MENU** to display the shooting guide screen.

Operation guide

During menu operations, the buttons and their respective functions are displayed at the bottom of the monitor. Follow these guides to navigate the menus.



BACK→MENU : Returns to the previous menu.
EXIT→MENU : Exits the menu.
SET→OK : Sets the selected item.

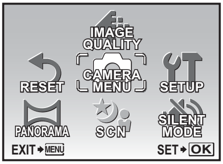
Using the menus

This explains how to use the menus with [DIGITAL ZOOM] as an example.

1 Set the mode dial to P.

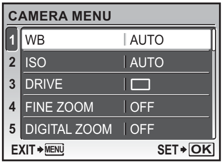
2 Press MENU to display the top menu. Select [CAMERA MENU] and press OK/FUNC.

- [DIGITAL ZOOM] is on a menu in [CAMERA MENU]. Press OK/FUNC.

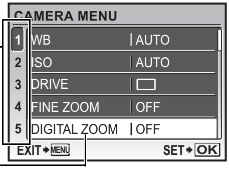


3 Press △▽ to select [DIGITAL ZOOM], and press OK/FUNC.

- Unavailable settings cannot be selected.
- When pressing ◁ on this screen, the cursor moves to the page display. Pressing △▽ changes the page. To return to item selection, press ▷ or OK/FUNC.



1 WB | AUTO
2 ISO | AUTO
3 DRIVE | ▭
4 FINE ZOOM | OFF
5 DIGITAL ZOOM | OFF



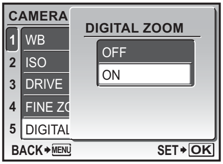
1 WB | AUTO
2 ISO | AUTO
3 DRIVE | ▭
4 FINE ZOOM | OFF
5 DIGITAL ZOOM | OFF

Page display:
The page display mark is displayed when there are additional menu items on the next page.

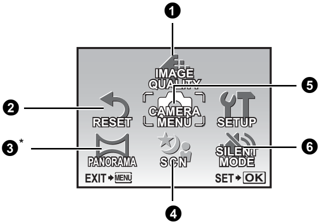
The selected item is displayed in a different color.

4 Press △▽ to select [OFF] or [ON], and press OK/FUNC.

- The menu item is set and the previous menu is displayed. Press **MENU** repeatedly to exit the menu.
- To cancel changes and continue menu operation, press **MENU** before pressing OK/FUNC.



Shooting mode menu AUTO P A S M My SCN



❺CAMERA MENU

WB
ISO
DRIVE
FINE ZOOM
DIGITAL ZOOM
METERING
AF MODE
FULLTIME AF
AF PREDICT
AF ILLUMINAT.
IMAGE STABILIZER
⚡±

⚡FLASH
🎙 (still pictures)
WB±
PICTURE MODE
SHARPNESS
CONTRAST
SATURATION
NOISE REDUCT.
TIMELAPSE
(conversion lens)
🎙 (movies)

* An OLYMPUS xD-Picture Card is required.

- Some menu items are not available depending on the position of the mode dial.

☞ “Functions available in shooting modes” (P.79)
☞ “SETUP menus” (P.52)

- The factory default settings are displayed in gray (▨).

❶ IMAGE QUALITY Changing the image quality

This function allows you to set [IMAGE QUALITY] (still pictures only) and [IMAGE SIZE] and [COMPRESSION] ([FRAME RATE] when recording movies).

- When [RAW] is selected in [IMAGE QUALITY], you cannot set [IMAGE SIZE] or [COMPRESSION].

Still picture image quality and their applications

IMAGE QUALITY	
JPEG	Compressed still picture data in JPEG format. [IMAGE SIZE] and [COMPRESSION] can be set.
RAW* 3648 × 2736	Raw uncompressed data. Data is in ORF format.
RAW + JPEG*	Images are simultaneously recorded in JPEG and RAW formats at the time of shooting.

* Cannot be selected when set to AUTO or SCN.

IMAGE SIZE		Application
10M	3648 × 2736	Suitable for printing pictures over A3 (11 × 17 in.).
5M	2560 × 1920	Suitable for printing pictures at A4 (8.5 × 11 in.).
3M	2048 × 1536	Suitable for printing pictures up to A4 (8.5 × 11 in.).
2M	1600 × 1200	Suitable for printing pictures at A5 (5 × 7 in.).
1M	1280 × 960	Suitable for printing pictures at postcard size.
VGA	640 × 480	Suitable for viewing pictures on a TV or using pictures on emails and web sites.
16:9	1920 × 1080	Suitable for playing pictures on wide screen TV.

COMPRESSION	
FINE FINE	Shooting at high quality.
NORM NORMAL	Shooting at normal quality.

Movie image quality

IMAGE SIZE	
VGA	640 × 480
QVGA	320 × 240

FRAME RATE	
30	30 frames/sec.
15	15 frames/sec.

☞ “Number of storable still pictures and recording length of movies” (P.72)

❷ RESET

Change the shooting functions back to default settings

NO / YES

This function restores some shooting functions back to default settings.

Functions restored to the factory default settings

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
Flash	AUTO	P.23	FULLTIME AF	OFF	P.42
🌷	OFF	P.27	AF PREDICT	OFF	P.42
⏲	OFF	P.28	AF ILLUMINAT.	ON	P.42
Shadow Adjustment Technology	OFF	P.25	IMAGE STABILIZER	ON	P.42
±	0.0	P.22	⚡±	± 0.0	P.42
IMAGE QUALITY	JPEG	P.34	FLASH	INT/EXT	P.43
IMAGE SIZE (still pictures/movies)	10M/QVGA	P.34	🎤 (still pictures)	OFF	P.43
			WB±	± 0	P.43
			PICTURE MODE	NATURAL	P.43
COMPRESSION	NORM	P.34	SHARPNESS	± 0	P.44
FRAME RATE	15	P.35	CONTRAST	± 0	P.44
WB	AUTO	P.39	SATURATION	± 0	P.44
ISO	AUTO	P.40	NOISE REDUCT.	ON	P.44
DRIVE	□	P.40	TIMELAPSE	OFF	P.45
FINE ZOOM	OFF	P.41	▯ (conversion lens)	OFF	P.45
DIGITAL ZOOM	OFF	P.41	🎤 (movies)	OFF	P.45
METERING	ESP	P.41	Monitor/Viewfinder (|□|)	Monitor	P.22
AF MODE	iESP	P.41	**SCN**	PORTRAIT	P.37

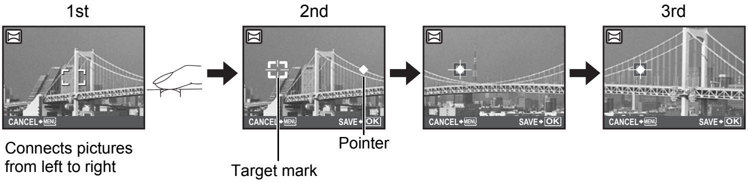
❸ PANORAMA Taking and combining panoramic pictures

COMBINE IN CAMERA1	As you recompose the frame, the camera automatically shoots and combines pictures in the camera.
COMBINE IN CAMERA2	Pictures are manually shot, and the camera automatically combines pictures in the camera.
COMBINE IN PC	Pictures are manually shot to be combined on a computer.

- An Olympus xD-Picture Card is required for shooting.
- When the card capacity is insufficient, this function cannot be selected.

[COMBINE IN CAMERA 1]

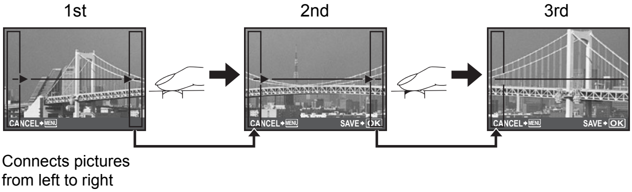
As you recompose the frame, the camera automatically shoots and combines pictures for a single panoramic picture in the camera. Only combined pictures are saved.



- Take the first picture.
- When you slightly move the camera in the direction of the next picture, a target mark and a pointer appear.
- The pointer moves as you pan the camera. Move the camera slowly and steadily until the pointer overlaps the target mark, then stay still.
- The camera shoots the second picture automatically.
- After the current subject appears on the monitor, take the third picture in the same manner as the second one.
- After the third picture is taken, the pictures are automatically combined, and then the combined picture is displayed. To combine only two pictures, press OK FUNC before shooting the third picture.
- To cancel making the panoramic picture during shooting, press **MENU**.

[COMBINE IN CAMERA 2]

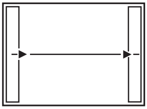
Pictures are manually shot, and the camera automatically combines pictures for a single panoramic picture in the camera. Only combined pictures are saved.



- Use the arrow pad to specify at which edge you want to connect the pictures, and then take the first picture.
- Compose your second shot so that the edge of the first picture overlaps the edge of the second picture, then shoot.
- Take the third picture in the same manner as the second one.
- After the third picture is taken, the pictures are automatically combined, and then the combined picture is displayed. To combine only two pictures, press OK FUNC before shooting the third picture.
- To cancel making the panoramic picture during shooting, press **MENU**.

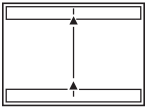
[COMBINE IN PC]
Create a panoramic picture using the OLYMPUS Master software from the provided CD-ROM.

Connects pictures from left to right



▷: The next picture is connected at the right edge.
◁: The next picture is connected at the left edge.

Connects pictures from bottom to top



△: The next picture is connected at the top.
▽: The next picture is connected at the bottom.

Use the arrow pad to specify at which edge you want to connect the pictures, and then compose your shots so that the edges of the pictures overlap.
Shooting is possible for up to 10 pictures. Press OK to exit panorama shooting.

- In [COMBINE IN PC] the previous picture for positioning does not remain. Remember the frame displayed on the monitor as a rough indication, then compose the shot so that the edges of the previous picture in the frame overlap with the next shot.

! Note

- Focus, exposure, WB and zoom are locked in the first frame, and the flash does not fire.
- In [COMBINE IN CAMERA1] or [COMBINE IN CAMERA2] mode, image quality is locked.
- Optical zoom magnification is restricted to 10×.
- In [COMBINE IN CAMERA1] mode, camera settings are automatically optimized for this mode. In [COMBINE IN CAMERA2] or [COMBINE IN PC] mode, pictures are taken in the last [ISO] or [SCN] settings set (except for some scene modes).
- In panorama mode, Shadow Adjustment Technology is not available.
- Pictures taken in panorama mode cannot be edited, except for [LIGHTING FIX] in [PERFECT FIX].

❹ SCN (Scene) **Shooting pictures by selecting a scene according to the situation**

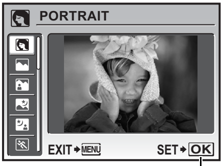
PORTRAIT /LANDSCAPE/LANDSCAPE+PORTRAIT/SPORT/
NIGHT SCENE[*1]/NIGHT+PORTRAIT[*1]/INDOOR/CANDLE/SELF PORTRAIT/
AVAILABLE LIGHT/SUNSET/FIREWORKS[*1]/MULTI FIREWORKS/CUISINE/
BEHIND GLASS/DOCUMENTS/AUCTION[*2]/SHOOT & SELECT1[*2]/
SHOOT & SELECT2[*3]/SMILE SHOT/BEACH/SNOW/QUICK SHUTTER

The scene mode selection screen displays sample images as well as a description of the shooting situation for which the selected scene is designed. It can be set only when the mode dial is set to SCN.

☞ "Mode dial Switching between shooting and playback modes" (P.16)

- By switching to another scene mode, most settings will be changed to the default settings of the new scene mode. The zoom position may change automatically depending on the scene.

Scene mode selection screen



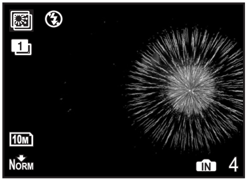
Set the scene mode.

*1 When the subject is dark, noise reduction is automatically activated. This approximately doubles the shooting time, during which the next picture cannot be taken.
*2 The focus is locked at the first frame.
*3 During sequential shooting, the camera focuses for each frame.

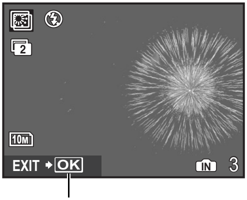
[MULTI FIREWORKS]

- This function allows you to take multiple exposures of two images on a single frame.
- Take the first image. The first image is saved and then displayed in the background. Compose the shot and take the second image. The second image is saved and the two images are combined and saved as a separate file. The combined picture is displayed during saving, and then the camera is again ready to take a second image. You can continue to take multiple exposure pictures.
- The exposure is locked at the first image.

When taking the first image



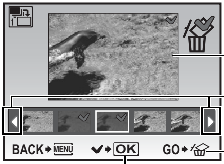
When taking the second image



Press OK to return to taking the first image.

[SHOOT & SELECT1] [SHOOT & SELECT2]

- Press and hold the shutter button to shoot sequential pictures. After shooting pictures, select the ones you want to erase by marking them with ✓ and press /🗑 to erase them.



Selected picture.

Press ◁▷ to scroll through the pictures.

Pictures with ✓ are erased.

Select the pictures to be erased.
Press OK to add or erase ✓ to a picture to be deleted.

[SMILE SHOT]

- When the camera detects a smiling face in shooting standby mode, 3 frames are automatically taken in high speed sequential shooting mode. You can also shoot a picture by pressing the shutter button.
- A smiling face may not be detected for some subjects.
- When [SMILE SHOT] is selected, the self-timer lamp lights. Shooting is not available while the self-timer lamp is blinking.

[QUICK SHUTTER]

- The shutter release time lag is shorter than normal. This enables you not to miss a single photo opportunity.
- [FULLTIME AF] is automatically set to [ON].

☞ "FULLTIME AF Shooting pictures while keeping the subject in focus" (P.42)

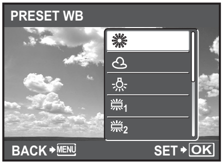
- [Hi 1] and [Hi 2] in [DRIVE] can be set.

❺ CAMERA MENU

WB .... Adjusting the color of a picture

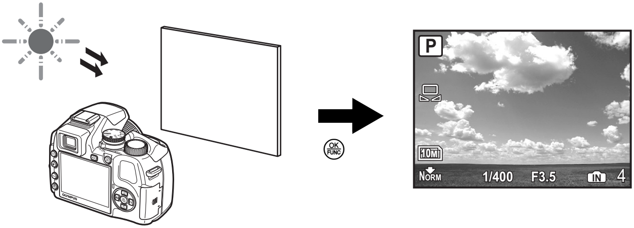
AUTO		The white balance is adjusted automatically for natural color, regardless of the light source.
PRESET		Selects the white balance according to the light source.
☼	Sunny day	For shooting under a clear sky.
☁	Cloudy day	For shooting under a cloudy sky.
💡	Tungsten light	For shooting under tungsten lighting.
1	Fluorescent lamp 1	For shooting under daylight fluorescent lighting. (This type of lamp is mainly used in homes.)
2	Fluorescent lamp 2	For shooting under a neutral white fluorescent lamp. (This type of lamp is mainly used in desk lamps.)
3	Fluorescent lamp 3	For shooting under a white fluorescent lamp. (This type of lamp is mainly used in offices.)
☐	One-touch WB	For setting a more precise white balance than preset white balance can provide. You can set and save the optimum white balance for the shooting conditions.

When [PRESET] is selected



Press △▽ to select a white balance setting, then press OK.

When [☐] is selected



- With the [ONE TOUCH WB] screen displayed, point the camera at a sheet of white paper. Position the paper so that it fills the screen, making sure there are no shadows.
- Press OK. The new white balance is set.

ISO .... Changing the ISO sensitivity

AUTO	Sensitivity is automatically adjusted according to the conditions of the subject.
HIGH ISO AUTO	This function has a higher sensitivity compared to [AUTO] and stabilizes the blur caused by a moving subject or camera movement when taking pictures.
64/100/200/400/800/1600/3200/6400	A low value reduces the sensitivity for daylight shooting of sharp, clear pictures. The higher the value, the greater the camera's light sensitivity and ability to shoot with a fast shutter speed and in low light conditions. However, high sensitivity introduces noise into the resulting picture, which may give it a grainy appearance.

- If set to [6400], [IMAGE SIZE] is limited to [5M] and lower.
- If [FINE ZOOM] or [DIGITAL ZOOM] is set to [ON], [6400] cannot be set.

DRIVE .... Continuous shooting

□	Shoots 1 frame at a time when the shutter button is pressed.
❐	Focus and exposure are locked at the first frame. The sequential shooting speed varies depending on the setting of image quality.
Hi 1❐	Pictures can be taken at a faster speed than normal sequential shooting.
Hi 2❐	Sequential shooting at a speed of approximately 13.5 frames/sec. • [PRE-CAPTURE] can be set. When set to [ON], pressing the shutter button halfway stores 10 frames of a picture immediately before shooting. PRE-CAPTURE: OFF / ON
AF❐	Adjusts the focus 1 frame at a time. The shooting speed is slower than for normal sequential shooting.
BKT	Takes pictures sequentially while changing the exposure for each frame (Bracket shooting). Focus and white balance are locked at the first frame. • When [BKT] is selected, the exposure differential and number of frames can be set. Exposure differential: ± 0.3 / ± 0.7 / ± 1.0 Number of frames: ×3 / ×5

You can take a sequence of pictures at one time by holding down the shutter button. The camera will take pictures continuously until you release the shutter button.

- Only [□] is available when [IMAGE QUALITY] is set to [RAW] or [RAW+JPEG].
- When [Hi 1❐] or [Hi 2❐] is selected, other functions are restricted as follows.
  - The flash mode is fixed at [⚡].
  - When [Hi 1❐] is selected, [IMAGE SIZE] is limited to [5M] and lower and the number of pictures that can be taken continuously to approximately 30 or less (or approximately 20 or less when [5M] and [FINE] are selected). When [Hi 2❐] is selected, [IMAGE SIZE] is limited to [3M] and lower and the number of pictures that can be taken continuously to approximately 30 or less (including the 10 pictures when [PRE-CAPTURE] is set to [ON]).
  - [ISO] settings will be restricted.

FINE ZOOM .... Zooming in on your subject without reducing image quality

OFF /ON

This function allows you to zoom up to 30× by combining the optical zoom and image cropping. As data with few pixels are not converted to multiple pixels, there is no loss of image quality.

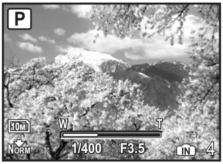
- [IMAGE SIZE] is limited to [3M] and lower.
- [FINE ZOOM] cannot be used in combination with [DIGITAL ZOOM].

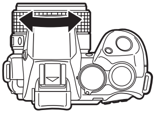
DIGITAL ZOOM .... Zooming in on your subject

OFF /ON

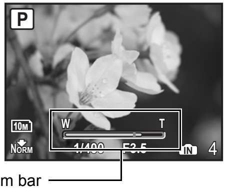
The digital zoom can be used to take close-up pictures with stronger magnification than the optical zoom.

Optical zoom





Digital zoom



Zoom bar
White: The optical zoom area
Yellow: The digital zoom area

Maximum magnification:
Still picture shooting modes
Optical zoom × digital zoom: Approx. 100× (max.)
Movie shooting mode
Optical zoom × digital zoom: Approx. 60× (max.)

METERING .... Changing the area for measuring the brightness of a subject

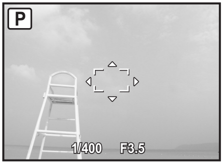
ESP	Meters the brightness at the center of the monitor and the surrounding area separately to capture an image with balanced brightness. When taking pictures against strong backlight, the center of the picture may appear dark.
⊡	The AF target mark area is metered. Recommended for taking a picture against strong backlight.
◉	Meters the brightness over a wide area with emphasis on the center of the screen. This method is used when you do not want to allow surrounding light to affect the picture.

AF MODE .... Changing the focusing area

FACE DETECT	When a face is being detected in the screen, the camera will focus on the face. A frame is displayed at the detected position.
iESP	The camera determines which subject within the screen to focus on. Even when the subject is not in the center of the screen, focusing is possible.
SPOT	Focus selection is based on the subject within the AF target mark.
AREA	Move the AF target mark to select the area you want to focus on to take a picture.

- The [FACE DETECT] may not be able to detect the face for some subjects.
- If [FINE ZOOM] or [DIGITAL ZOOM] is set to [ON], [AREA] cannot be set.

When [AREA] is selected



- To move the AF target mark
  The AF target mark changes to ⛶. Use the arrow pad to move the position of the AF target mark.
  You can take pictures while in this status.
- To set the position of the AF target mark
  Hold down OK/FUNC.
  To change the position of the mark, hold down OK/FUNC again.

FULLTIME AF .... Shooting pictures while keeping the subject in focus

OFF	Press the shutter button halfway to focus.
ON	Fulltime AF keeps the subject in front of the lens in focus at all times, without having to press the shutter button halfway. The focusing time is reduced, so you will not miss snapshot opportunities. Also, the subject is automatically kept in focus during movie recording.

AF PREDICT .... Shooting pictures with the focus on subjects moving back and forth

OFF	AF predict is deactivated.
ON	When activated, position the AF target mark on the subject and press the shutter button halfway to engage the AF predict. Then, press the shutter button completely to take the picture.

- AF predict continues to operate while the shutter button is pressed halfway (AF blinks).
- Depending on the subject, the picture may be out of focus even if [AF PREDICT] is set.
- During macro and super macro mode, [AF PREDICT] is not available.

AF ILLUMINAT. .... Setting to light the illuminator in a dark place

OFF	AF illuminator does not light.
ON	Press the shutter button halfway. The AF illuminator lights automatically, allowing you to focus in a dark place.

IMAGE STABILIZER .... Shooting pictures using digital image stabilization

This function stabilizes the blur caused by camera movement when taking pictures.

OFF	Digital image stabilization is deactivated.
ON	Digital image stabilization is activated after pressing the shutter button halfway.

- When taking pictures with the camera stabilized (using a tripod), set to [OFF].
- Images may not be correctable if the camera is severely shaken.
- During night shooting or when the shutter speed is very slow, the Digital image stabilization mode may not work.

⚡± .... Adjusting the amount of light emitted by the flash

Depending on situations such as shooting small subjects or distant backgrounds, it may be advisable to adjust the amount of light emitted by the flash. In addition, this function is useful when increased contrast is desired.

-2.0EV to	0.0	to +2.0EV

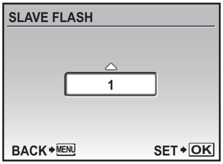
Press △▽ to adjust, and press OK/FUNC.

FLASH .... Setting to use an external flash

INT/EXT	Allows you to take pictures using the built-in flash or a dedicated external flash. ☞ "External flash shooting" (P.82)
⚡RC	Allows you to take pictures using a flash that is compatible with the Olympus wireless RC flash system. ☞ "Shooting with the Olympus wireless RC flash system" (P.84)
SLAVE	When using a commercially available slave flash that is synchronized with the camera flash, the amount of the light emitted by the flash can be adjusted in 10 levels.

Selecting an emission level

- When flash is set to [SLAVE], flash mode automatically changes to [⚡] (Fill-in flash) for all flash modes except [⊘] (Flash off).



Press △▽ to select an emission level from [1] to [10], then press Ⓞ. The bigger number indicates the bigger amount of light emitted by the flash.

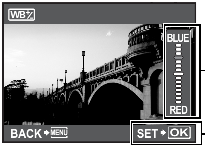
- The flash can fire in sequential shooting mode, but the interval between shots will be longer if a high emission level is set.

🎙 (still pictures) .... Recording sound with still pictures

OFF /ON

It automatically starts recording for about 4 seconds after shooting pictures.
When recording, aim the camera microphone at the source of the sound you want to record.

WB± .... Adjusting the white balance compensation



- The white balance can be adjusted in 7 increments in both the [BLUE] and [RED] directions.

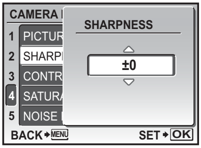
△ : Each press makes the color more blue.
▽ : Each press makes the color more red.

Press Ⓞ after setting is complete.

PICTURE MODE .... Adjusting the color tone of the image

VIVID	Produces vivid colors.
NATURAL	Produces natural colors.

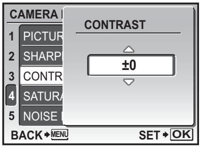
SHARPNESS .... Adjusting the sharpness of the image



△ (Toward +) : The image contours are emphasized, making the image appear sharper. If you adjust the sharpness too far toward +, noise may become conspicuous in the picture.

▽ (Toward –) : The image contours are softened.

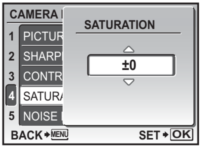
CONTRAST .... Adjusting the contrast of the image



△ (Toward +) : The light and dark areas are defined more clearly, making the image look crisper.

▽ (Toward –) : The light and dark areas become less defined, giving the image a softer impression.

SATURATION .... Adjusting the saturation of the image



△ (Toward +) : Colors become stronger.

▽ (Toward –) : Colors become weaker.

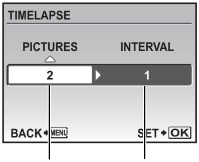
NOISE REDUCT. .... Reducing the noise during long exposures

OFF	Noise is not reduced. Noise may be conspicuous at slow shutter speeds.
ON	Noise is reduced. Shooting time takes twice as long as usual. Shooting is not available during noise reduction. Noise reduction can only be used when the shutter speed is slower than 1/2 sec.

- This function may not work effectively with some shooting conditions or subjects.

TIMELAPSE .... Shooting pictures automatically as defined by set conditions

OFF	Timelapse shooting is deactivated.
ON	Timelapse shooting is activated.



Number of shots: 2 to 99

Shooting interval: 1 to 99 minutes in 1 minute intervals

When setting the timelapse shooting

- Press ◁▷ to select [PICTURES] and [INTERVAL].
- Press △▽ to set the value.
- Press OK/FUNC to set.
- The first picture is taken when the shutter button is pressed, and the pictures thereafter are automatically taken.
- During timelapse, the ▣ mark lights on the monitor.
- When recording to either the internal memory or the card, and after the first picture is taken, the camera enters sleep mode. The camera automatically reactivates from sleep mode 4 seconds prior to taking the next picture.
- When the preset number of pictures is taken, the camera automatically turns off.

- If you will be taking pictures over a long period, make sure to use fully charged batteries or the AC adapter.
- If any of the following operations occur during sleep mode, the camera cancels the timelapse mode and returns to normal shooting.
  Opening the battery compartment cover, opening the card cover, connecting the camera to a computer, operating the shutter button, arrow pad or other button.
- If the internal memory/card becomes full or the battery power runs out during timelapse shooting, a warning is displayed, timelapse stops and the camera automatically turns off.

▯ .... Shooting pictures with conversion lens

OFF /ON

Set this function when shooting with the camera using a conversion lens (option) specified by Olympus.

- Using the built-in flash with the conversion lens attached can cause vignetting. Use an external flash if required.
- When the conversion lens is attached, the camera may take some time to focus.

🎙 (movies) .... Recording sound with movies

OFF /ON

- If the camera is more than 1 m (3.3 ft.) away from the source of the sound, sound may not be recorded clearly.
- When [🎙] (movies) is set to [ON], [IMAGE STABILIZER] is not available.
- If [FULLTIME AF] and [🎙] (movies) are both set to [ON], the sound of operating lens may be recorded.

❻ SILENT MODE Setting to turn off operational sounds

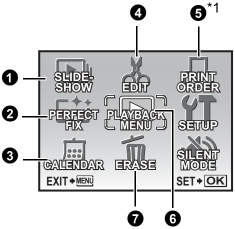
OFF /ON

This function allows you to turn off operational sounds that occur during shooting and playback, warning beeps, shutter sounds, etc.

Playback mode menu ▶

❹EDIT

RAW DATA EDIT*2
⧉*2
⌗*2
COLOR EDIT*2
FRAME*2
LABEL*2
CALENDAR*2
LAYOUT*2
EXPRESSION EDIT*2
FACE FOCUS*2
INDEX*3
EDIT*3
MOVIE INDEX*3



❻PLAYBACK MENU

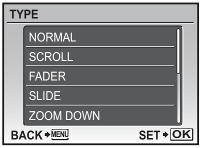
🔑
↻
🎤
INDEX PLAY

*1 A card is required.
*2 This is not displayed when a movie is selected.
*3 This is not displayed when the still picture is selected.

☞ “SETUP menus” (P.52)
“SILENT MODE Setting to turn off operational sounds” (P.45)

- The factory default settings are displayed in gray (   ).

❶ SLIDESHOW **Playing back pictures automatically**


TYPE
NORMAL
SCROLL
FADER
SLIDE
ZOOM DOWN
BACK➔MENU SET➔OK

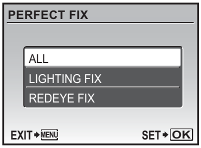
- Select the transition effect between pictures from [TYPE] and press OK/FUNC. The [BGM] selection screen is displayed. After selecting the [BGM], press OK/FUNC to start the slideshow.

TYPE	NORMAL /SCROLL/FADER/ SLIDE/ZOOM DOWN/ZOOM UP/ CHECKERBOARD/BLINDS/SWIVEL/RANDOM
BGM	OFF / 1 / 2

- Only the first frame of each movie is displayed.
- Press OK/FUNC or **MENU** to cancel the slideshow.

❷ PERFECT FIX **Continuous shooting**

This function allows you to correct the taken picture and save it as a new picture.


PERFECT FIX
ALL
LIGHTING FIX
REDEYE FIX
EXIT➔MENU SET➔OK

- Select the item to be corrected with △▽ and press OK/FUNC.
- Select the picture with ◁▷ and press OK/FUNC.

ALL	Lighting fix and red-eye fix are activated together.
LIGHTING FIX	Only the dark areas of an image are corrected. Underexposed areas caused by taking pictures against backlight or insufficient lighting are brightened.
REDEYE FIX	Only red-eye fix is activated.

- When red eye is not detected with [REDEYE FIX], press ◁ to cancel the correction.
- Movies, pictures shot by another camera, and previously fixed or edited pictures cannot be corrected.
- Some pictures may not be corrected completely.
- Editing an image may cause it to suffer a minor loss in quality.

❸ CALENDAR **Playing back the pictures in a calendar format**

This function lets you playback the pictures in a calendar format, organized by the date the images were recorded.

❹ EDIT

RAW DATA EDIT .... **Editing the pictures recorded in raw data format**

Adjusts the pictures recorded in raw data format and stores them as new pictures in JPEG format.

Items that can be set with [RAW DATA EDIT]

Item	Settings	Ref. Page
IMAGE QUALITY	IMAGE SIZE : 10M/5M/3M/2M/1M/VGA/16:9 COMPRESSION : FINE/NORM	P.34
WB	AUTO/PRESET/▭*	P.39
WB±	RED7 - BLUE7	P.43
PICTURE MODE	VIVID/NATURAL	P.43
SHARPNESS	-5 - + 5	P.44
CONTRAST	-5 - + 5	P.44
SATURATION	-5 - + 5	P.44

* Available only when the picture is taken with [WB] set to [▭].

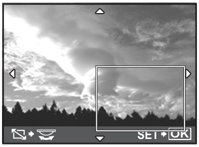
◲ .... **Changing the size of pictures**

VGA 640 × 480	/QVGA 320 × 240

This changes the image size of a picture and saves it as a new file.

⌗ .... **Cropping a part of pictures**

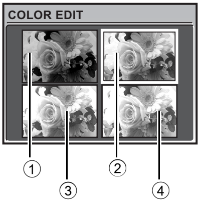
Designates and crops part of a still picture and saves it as a new file.



- Press ◁▷ to select the image to crop, and press ㊋.
- Use the arrow pad and the control dial to adjust the position and size of the picture, and press ㊋.

COLOR EDIT .... **Changing the color of a picture**

This function lets you change the color of a picture and save it as a new picture.

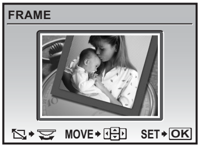


- Select the picture with ◁▷ and press ㊋.
- Select your desired color with the arrow pad, and press ㊋.

① BLACK & WHITE	This changes the picture to black and white.
② SEPIA	This changes the pictures to sepia.
③ SATURATION (HARD)	This enhances the saturation of the picture.
④ SATURATION (SOFT)	This slightly enhances the saturation of the picture.

FRAME .... Add a frame to your picture

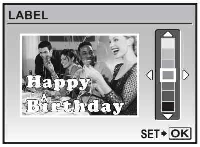
This function lets you select a frame, integrate the frame with an image, and save it as a new picture.



- Select the picture to be framed with ◁▷, and press OK/FUNC. (Press △▽ to turn the picture 90 degrees clockwise or 90 degrees counterclockwise.)
- Select a frame with ◁▷ and press OK/FUNC.
- Use the arrow pad and the control dial to adjust the position and size of the picture, and press OK/FUNC.

LABEL .... Add a label to your picture

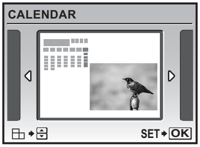
This function lets you select a label, integrate the label with an image, and save it as a new picture.



- Select the picture with ◁▷ and press OK/FUNC.
- Select the label with ◁▷, and press OK/FUNC. (Press △▽ to rotate the picture 90° clockwise or counterclockwise.)
- Use the arrow pad and the control dial to adjust the position and size of the label, and press OK/FUNC.
- Set the color of the label with the arrow pad, and press OK/FUNC.

CALENDAR .... Create a calendar print with your picture

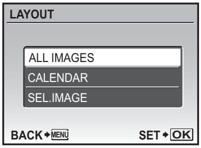
This function lets you select a calendar format, integrate the calendar with a picture, and save it as a new file.



- Select the picture with ◁▷ and press OK/FUNC.
- Select the calendar with ◁▷, and press OK/FUNC. (Press △▽ to rotate the picture 90° clockwise or counterclockwise.)
- Set the date of the calendar, and press OK/FUNC.

LAYOUT .... Creating an index layout of pictures

ALL IMAGES	All pictures in the internal memory or the card are added to the layout.
CALENDAR	A monthly calendar appears and the pictures you want to make layout are selected by the date.
SEL. IMAGE	Pictures that you want to make layout are specified one by one.



- Press ◁▷ to select a layout, and press OK/FUNC.
- Select the type of layout picture, and press OK/FUNC.
- Select the pictures and press OK/FUNC. (When [SEL. IMAGE] is selected in [LAYOUT] screen, press △▽ to rotate the picture 90° clockwise or counterclockwise.)

EXPRESSION EDIT

Transforming a face in the picture

This function lets you transform a face that is largest and facing front in the picture, and save it as a new picture.

- Select the picture with ◁▷ and press OK.
- Use the arrow pad to select the desired effect, and press OK.
- The face may not be detected correctly for some subjects.

FACE FOCUS

Showing up a face in the picture

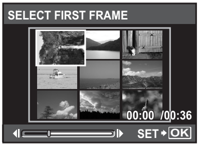
This function lets you change the largest face that is facing the front and save it as a new picture.

- Select the picture with ◁▷ and press OK.
- The face may not be detected correctly for some subjects.

INDEX

Making an index picture from a movie

This function extracts 9 frames from a movie and saves them as a new picture containing thumbnails of each frame.

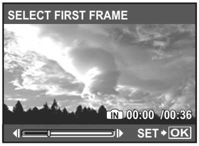


- Use ◁▷ to select a movie and press OK.
- Use the arrow pad to select the first frame of the part you want to keep, and press OK. In the same manner, select the last frame of the part you want to keep and press OK.

EDIT

Extracting a part of the movie

Allows you to specify a part of the movie and overwrite it, or save it as a new movie.



- Select [NEW FILE] or [OVERWRITE], and press OK.
- Use the arrow pad to select the first frame of the part you want to keep, and press OK. In the same manner, select the last frame of the part you want to keep and press OK.

MOVIE INDEX

Capturing a still image from the movie

Allows you to capture a frame from the movie and save it as a still image in JPEG format.

- Use ◁▷ to select a movie and press OK.
- Use the arrow pad to select the frame to capture, and press OK.

❺ PRINT ORDER

Making print reservations (DPOF)

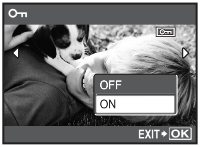
This function allows you to save printing data (the number of prints and the date and time information) with the pictures stored on the card.

☞ "Print settings (DPOF)" (P.61)

❻ PLAYBACK MENU

🔑 .... Protecting pictures

OFF /ON



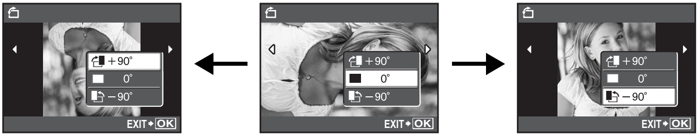
Protected pictures cannot be erased with [ERASE]/[SEL. IMAGE]/[ALL ERASE], but they are all erased by formatting.

- Select the picture with ◁▷, and protect it by selecting [ON] with △▽. You can protect several frames in succession. When a picture is protected, [🔑] is displayed on the monitor.

⟲ .... Rotating pictures

⟲▮+90°/ ▬0° /▮⟳-90°

Pictures taken with the camera held vertically are displayed horizontally during playback. This function allows you to turn such pictures so that they are displayed vertically. New picture orientations are saved even when the power is turned off.

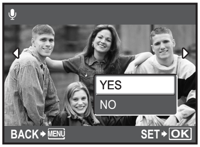


+90° 0° -90°

Select the picture with ◁▷, and rotate it by selecting [⟲▮+90°], [▬0°] or [▮⟳-90°] with △▽. You can rotate several frames in succession.

🎙 .... Adding sound to still pictures

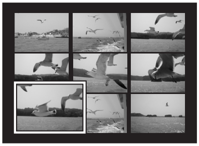
YES / NO



Sound is recorded for about 4 seconds.

- Use ◁▷ to select a picture, select [YES] and press Ⓞ to start recording.
- The [BUSY] bar will be temporarily displayed.

INDEX PLAY .... Selecting the playback position of the movie



Movies are played from the specified position.

- Use the arrow pad to select a frame. Press Ⓞ to start playback from the selected frame.
- Use the control dial to change the number of displayed index frames.

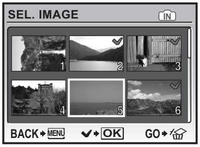
⑦ ERASE **Erase selected pictures/Erase all pictures**

Protected pictures cannot be erased. Cancel protection before erasing protected pictures. Once erased, pictures cannot be restored. Check each picture before erasing to avoid accidentally erasing pictures you want to keep.

- When erasing the picture in the internal memory, do not insert the card into the camera.
- When erasing the picture from the card, insert a card into the camera in advance.
- You can confirm on the monitor whether the internal memory or card is being used.

☞ "Using the internal memory or card" (P.85)

SEL. IMAGE .... **Selecting images to erase**



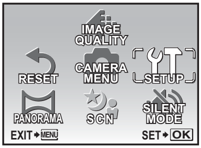
- Use the arrow pad to select a picture, and press OK/FUNC to add ✓.
- Press OK/FUNC again to cancel the selection.
- When the selection is completed, press ☺/🗑.
- Select [YES], and press OK/FUNC.

ALL ERASE .... **Erase all the pictures in the internal memory or the card**

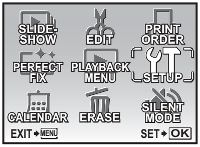
- Select [YES], and press OK/FUNC.

SETUP menus

Shooting mode



Playback mode



SETUP

MEMORY FORMAT (FORMAT[*1])
BACKUP[*1]
🗣
PW ON SETUP
MENU COLOR
SOUND SETTINGS
REC VIEW
MENU DISPLAY
CONTROL PANEL
FILE NAME
PIXEL MAPPING
▭
🕘
DUALTIME
ALARM CLOCK
VIDEO OUT
FRAME ASSIST[*2]
📊[*2]
MY MODE SETUP[*2*3]
m/ft
AEL/AFL BUTTON[*2]
CUSTOM BUTTON[*2*3]
MANUAL FOCUS[*2*3]
SLEEP

*1 A card is required.
*2 Not available when the mode dial is set to 🎥.
*3 Not available when the mode dial is set to AUTO.

MEMORY FORMAT (FORMAT) .... Formatting the internal memory or card

All existing data, including protected pictures, are erased when the internal memory or card is formatted. Make sure that you save or transfer important data to a computer before formatting.

- Make sure there is no card inserted in the camera when formatting the internal memory.
- Be sure that the card is inserted in the camera when formatting the card.
- Before using non-Olympus cards or cards which have been formatted on a computer, you must format them with this camera.

BACKUP .... Copying pictures in the internal memory to the card

Insert the optional card into the camera. Copying data does not erase the picture in the internal memory.

- It takes some time to back up data. Check if the battery is not empty before starting the copy, or use the AC adapter.

🗣 .... Selecting a display language

You can select a language for on-screen display. Available languages vary depending on the area where you purchased this camera.

PW ON SETUP .... Setting the startup screen and sound

SCREEN	OFF (No picture is displayed.)	/	1	/	2
VOLUME	OFF (No sound)	/	LOW	/	HIGH

- Select [2] and press OK to set the still picture saved in the internal memory or card as the startup screen.
- When [SCREEN] is set to [OFF], [VOLUME] cannot be set.

MENU COLOR .... Setting the menu screen color

NORMAL / COLOR1 / COLOR2 / COLOR3

SOUND SETTINGS .... Setting the sounds output from the camera

You can make the following settings with [SOUND SETTINGS].

- Setting the type of button operation sounds and volume. (BEEP)
- Selecting the sound and volume of the shutter button. (SHUTTER SOUND)
- Adjusting the volume of the camera warning sound. (■)))))
- Adjusting the volume during playback. (▶ VOLUME)

BEEP	SOUND TYPE	1 / 2
	VOLUME	OFF (No sound) / LOW / HIGH
SHUTTER SOUND	SOUND TYPE	1 / 2 / 3
	VOLUME	OFF (No sound) / LOW / HIGH
■)))		OFF (No sound) / LOW / HIGH
▶ VOLUME		• Press △▽ on the arrow pad to adjust the volume. • You can select [OFF] or adjust in 5 steps from 1 to 5.

- You can set all the sounds muted at once by setting [SILENT MODE].

☞ "SILENT MODE Setting to turn off operational sounds" (P. 45)

REC VIEW .... Viewing pictures immediately

<table>
<tr><td>OFF</td><td>The picture being recorded is not displayed. This is useful when you want to prepare for your next shot while the previous picture is being recorded.</td></tr>
<tr><td>ON</td><td>The picture being recorded is displayed. This is useful when you want to quickly review the last picture taken. You can resume shooting while the picture is still being displayed.
• Select [ON] to set whether to display the image on the monitor or viewfinder during recording.
<table>
<tr><td>LCD ONLY</td><td>Pictures that are being recorded will always be displayed on the monitor.</td></tr>
<tr><td>CURRENT</td><td>Pictures that are being recorded will be displayed on the viewfinder when the viewfinder is used and on the monitor when the monitor is used.</td></tr>
</table>
</td></tr>
</table>

MENU DISPLAY .... Displaying menu display on the monitor

Perform next operation to set whether to display on the monitor or viewfinder.

- When **MENU** is pressed
- When ☀/🗑 is pressed in the playback mode
- When ▶/⎙ is pressed in the shooting mode

LCD ONLY	This always displays the menu on the monitor.
CURRENT	This displays the menu on the viewfinder when the viewfinder is used and on the monitor when the monitor is used.

CONTROL PANEL .... Switching between the control panel and function menu

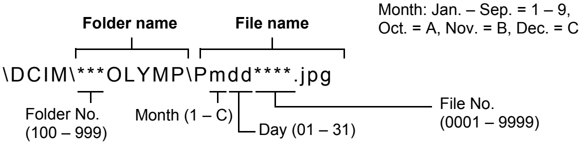
OFF	The function menu is displayed on the monitor or in the viewfinder.
ON	The control panel is displayed on the monitor.

☞ "Ⓞ button (OK/FUNC) Setting using the control panel or function menu" (P.28)
"Operations using the control panel" (P.29)

FILE NAME .... Resetting the file names of pictures

RESET	The file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to [No. 100] and the file number returns to [No. 0001].
AUTO	Even if a new card is inserted, the folder number and file number are retained from the previous card. This helps you to manage multiple cards.

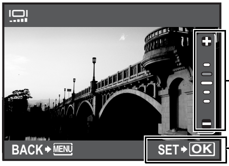
Structure of file name and folder name



PIXEL MAPPING .... Adjusting the image processing function

The pixel mapping feature allows the camera to check and adjust the CCD and image processing functions. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait at least one minute after taking or viewing pictures to allow the pixel mapping function to perform properly. If you turn the camera off during pixel mapping, start again.
Select [PIXEL MAPPING]. When [START] is displayed, press OK.

.... Adjusting the monitor brightness



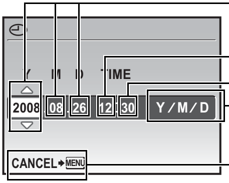
△ : Brightens the monitor.

▽ : Darkens the monitor.

Press OK after setting is complete.

.... Setting the date and time

The date and time is saved with each image, and is used in the file name.



Y-M-D (Year-Month-Day)

Hour

Minute

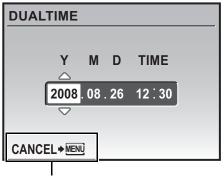
Date formats (Y/M/D, M/D/Y, D/M/Y)

MENU : Exits a setting.

- The first two digits of the [Y] are fixed.
- The time is displayed in the 24-hour format.
- To set the time precisely, with the cursor at either “minute” or [Y/M/D], press OK as the time signal strikes 00 seconds.

DUALTIME .... Setting the date and time in another time zone

OFF	Switches to the date and time set in [◷]. Pictures are recorded with the date and time set in [◷].
ON	Switches to the date and time set in [DUALTIME]. When setting the dual time, select [ON], and then set the time. Pictures are recorded with the date and time set in [DUALTIME].



MENU: Exits a setting.

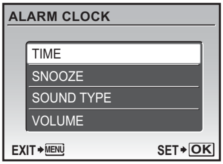
- The date format is the same as that set with [◷].
- The first two digits of the [Y] are fixed.
- The time is displayed in the 24-hour format.

ALARM CLOCK .... Setting alarms

OFF	No alarm is set or alarm is canceled.
ONE TIME	Alarm is activated once. After the alarm goes off, the setting is canceled.
DAILY	Alarm is activated daily at the set time.

- When [◷] has not been set, [ALARM CLOCK] is not available.
- When [SILENT MODE] is set to [ON], the alarm will not sound.
- When [DUALTIME] is set to [ON], the alarm sounds according to the dual time date and time setting.

Setting an alarm



- Select [ONE TIME] or [DAILY], and set the alarm time.
- You can set snooze or alarm sounds and volume.

TIME	Sets the alarm time.	
SNOOZE	OFF	No snooze is set.
	ON	Alarm is activated every 5 minutes, up to 7 times.
SOUND TYPE	1 / 2 / 3	
VOLUME	LOW / HIGH	

Operating, shutting off and checking the alarm

- Operating the alarm:
  Turn off the camera. The alarm only operates when the camera is off.
- Shutting off the alarm:
  While the alarm is sounding, press any button to shut off the alarm and turn off the camera. After 1 minute of no operation, the alarm stops automatically and the camera turns off when [SNOOZE] is set to [OFF].
- Checking the alarm settings:
  While the camera is off, press **DISP./?** to display the set alarm time and the current time for 3 seconds.

VIDEO OUT .... Playing back pictures on a TV

NTSC / PAL

The factory default settings differ according to the region where the camera is sold.
To play back camera images on a TV, set the video output according to your TV's video signal type.

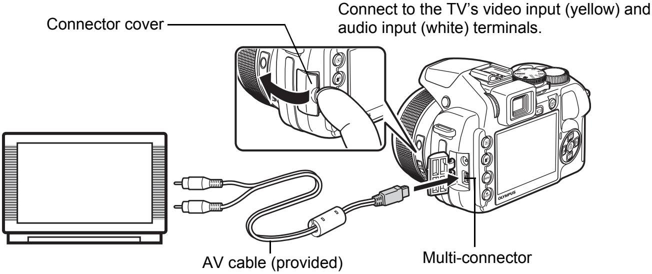
- TV video signal types differ by country/region. Check the video signal type before connecting the camera to the TV.

NTSC : North America, Taiwan, Korea, Japan

PAL : European countries, China

Playing back pictures on a TV

Turn off the camera and the TV before connecting.


Connector cover
Connect to the TV's video input (yellow) and audio input (white) terminals.
AV cable (provided)
Multi-connector

Settings on the TV
Turn the TV on, and set it to video input mode.

- For details of switching to video input, refer to your TV's instruction manual.
- Images and the information displayed on the screen may become cropped depending on the TV's settings.

Settings on the camera
Turn the camera on in playback mode.

- The last picture taken is displayed on the TV. Use the arrow pad to select the picture you want to display.

FRAME ASSIST .... Displaying the frame assist/Determining the type of frame assist

OFF / ▦ / ☒

Press **DISP./?** in shooting mode to determine the type of frame assist to be displayed.
When [OFF] is selected, pressing **DISP./?** will not display the frame assist.

.... Displaying the histogram

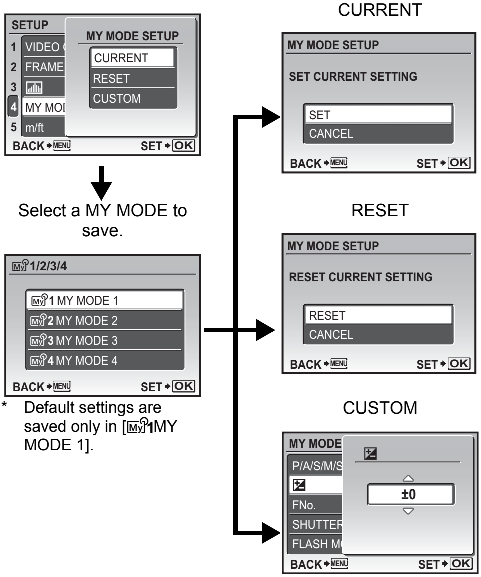
OFF / ON / DIRECT

Press **DISP./?** to determine whether to display the histogram.

- When set to [DIRECT], the black (blue) and white (red) areas are displayed directly on the picture.

MY MODE SETUP .... Setting and saving shooting-related functions

Types of my mode settings



* Default settings are saved only in [1MY MODE 1].

Saves the current camera settings.

- Select [SET], and press OK/FUNC.

Restores the factory default settings.

- Select [RESET], and press OK/FUNC.

Saves settings one by one.

- Select the item to save in my mode, and press ▷ or OK/FUNC.
- Change setting of the item, and press OK/FUNC.

☞ "Functions that can be assigned to My Mode/custom button" (P.78)

m/ft .... Setting the measurement unit during manual focus

m	Displays in meters and centimeters.
ft	Displays in feet and inches.

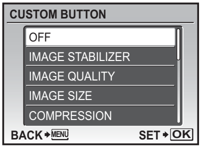
AEL/AFL BUTTON .... Registering the AE lock and AF lock functions

AE LOCK	Sets the function to lock the exposure.
AF LOCK	Sets the function to lock the focus position.
AF LOCK + AE LOCK	Sets the function to lock the focus position and exposure.

You can set the function when **AEL AFL** is pressed in shooting mode.

☞ "**AEL AFL** Locking the focus position and exposure" (P.23)

CUSTOM BUTTON .... Assigning functions to the custom button



- Select the function to be registered with △▽, and press OK.

☞ "Functions that can be assigned to My Mode/custom button" (P.78)

MANUAL FOCUS .... Selecting the focusing method in manual focus mode

◀▶ BUTTONS	Use ◁▷ to adjust the focus.
DIAL	Use the control dial to adjust the focus.
ZOOM RING	Use the zoom ring to adjust the focus.

- When [ZOOM RING] is selected in manual focus mode, the zoom ring cannot be used to zoom in and out.
- When [DIAL] is selected, the aperture value and shutter speed cannot be changed in **A**, **S** or **M** mode while adjusting the focus.

SLEEP .... Setting the sleep time

1MIN / 3MIN / 5MIN / 10MIN

To save battery power, the camera enters sleep mode when a certain amount of time has passed without any function being operated.
To reactivate the camera from sleep mode, press the shutter button, arrow pad or any button.

Printing pictures

Direct printing (PictBridge)

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

EASY PRINT................Prints the picture displayed in the monitor by using the standard settings of your printer.

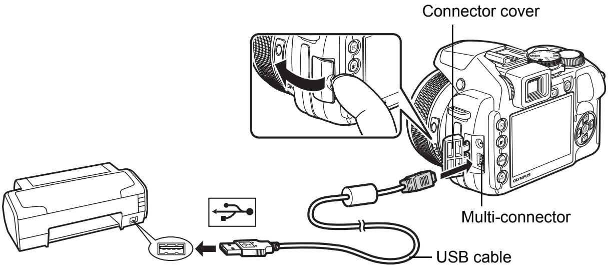
CUSTOM PRINT..........Prints with the various print settings.

- PictBridge is a standard for connecting digital cameras and printers of different makers and printing out pictures directly. To find out if your printer is compatible with PictBridge, refer to the printer's instruction manual.
- For printer's standard settings, available printing modes, the setting items such as paper sizes, and printer's specifications such as available types of paper, how to install the papers and ink cassettes, etc., refer to the printer's instruction manual.

EASY PRINT

1 In playback mode, display the picture you want to print out on the monitor.

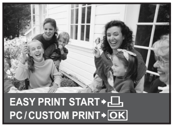
2 Turn the printer on and plug the USB cable provided with the camera into the multi-connector of the camera and the printer's USB port.



- The easy print start screen is displayed.

3 Press ▶/⎙.

- Printing starts.
- When printing is finished, the picture selection screen is displayed. To print another picture, press ◁▷ to select a picture, and press ▶/⎙.

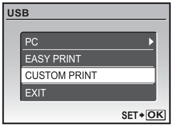


4 Disconnect the USB cable.

Other print modes and print settings (CUSTOM PRINT)

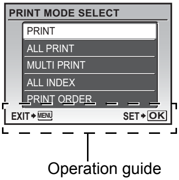
1 Follow Steps 1 and 2 on P. 59 to display the screen for Step 3 on P. 59, and then press OK FUNC.

2 Select [CUSTOM PRINT], and press OK FUNC.



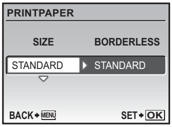
3 Follow the operation guide to adjust print settings.

Selecting a print mode



PRINT	Prints the selected picture.
ALL PRINT	Prints all the pictures stored in the internal memory or the card.
MULTI PRINT	Prints one picture in multiple layout format.
ALL INDEX	Prints an index of all the pictures stored in the internal memory or the card.
PRINT ORDER	Prints the pictures according to the print reservation data on the card. ☞ "Print settings (DPOF)" (P. 61)

Setting the print paper

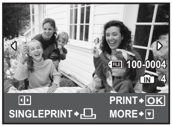


SIZE	Choose from the available paper sizes on your printer.
BORDERLESS	Select with or without borders. In [MULTI PRINT] mode, you cannot print with a border.
PICS/SHEET	Select the number of pictures to be laid out on a sheet of paper. Available in [MULTI PRINT] mode only.

- If the [PRINTPAPER] screen is not displayed, [SIZE], [BORDERLESS] and [PICS/SHEET] are set to the standard.

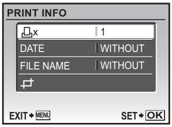
Selecting the picture to print

Press ◁▷ to select the picture you want to print. Or you can turn the control dial and select a picture from the index display.



PRINT	Prints one copy of the selected picture. When [SINGLE PRINT] or [MORE] has been selected, a single copy or more copies are printed.
SINGLE PRINT	Makes a print reservation for the displayed picture.
MORE	Sets the number of prints and data to be printed for the displayed picture.

Setting the number of prints and data to be printed



⎍× 1

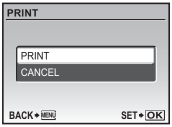
DATE WITHOUT

FILE NAME WITHOUT

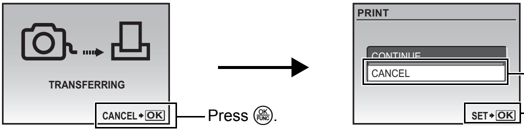
⎍×	Sets the number of prints. You can select up to 10 prints.
DATE (🕓)	If you select [WITH], pictures are printed with the date.
FILE NAME (FILE)	If you select [WITH], pictures are printed with the file name.
⌗	Use the arrow pad and the control dial to adjust the trimming size and position, and press OK/FUNC. The trimmed picture is printed.

4 Select [PRINT], and press OK/FUNC.

- Printing starts.
- When [OPTION SET] is selected in [ALL PRINT] mode, [PRINT INFO] screen is displayed.
- When printing is finished, the [PRINT MODE SELECT] screen is displayed.



To cancel printing



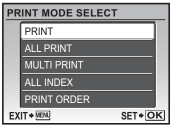
Press OK/FUNC.

Select [CANCEL], and press OK/FUNC.

Screen during data transfer

5 In the [PRINT MODE SELECT] screen, press MENU.

- A message is displayed.



6 Disconnect the USB cable.

Print settings (DPOF)

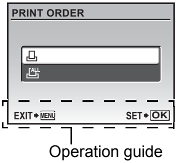
Print reservation allows you to save printing data (the number of prints and the date and time information) with the pictures stored on the card.
With print reservation, you can print out pictures easily either at home using a personal DPOF-compatible printer or at a photo store that supports DPOF. DPOF is a standard format used to record automatic print information from digital cameras.

- Only the images stored on the card can be reserved to print. Insert a card with recorded pictures into the camera before making print reservations.
- DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device. If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- You can make DPOF print reservations for up to 999 images per card.
- Not all functions may be available on all printers, or at all photo stores.

Making a print reservation

1 Press MENU in the playback mode and select [PRINT ORDER].

2 Select [⎙] or [ALL⎙], and press (OK).

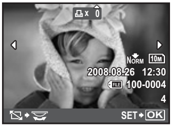


⎙	Makes a print reservation for the selected picture.
ALL⎙	Makes print reservations for all the pictures stored on the card.

- When [ALL⎙] is selected, go to step 5.

When [⎙] is selected

3 Press ◁▷ to select the frames for print reservations, and then press △▽ to set the number of prints.



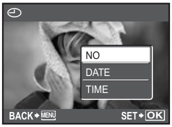
- You cannot make print reservations for pictures with 🎥.
- Repeat Step 3 to make print reservations for other pictures.

To trim the picture

- Use the control dial to display the trimming line.
- Use the arrow pad and the control dial to adjust the trimming size and position, and press (OK).

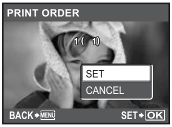
4 When you finish making print reservations, press (OK).

5 Select the date and time print setting, and press (OK).



NO	The pictures are printed without the date and time.
DATE	The selected pictures are printed with the shooting date.
TIME	The selected pictures are printed with the shooting time.

6 Select [SET], and press (OK).



Resetting print reservation data

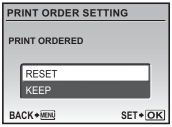
You can reset all the print reservation data or just for selected pictures.

1 Select top menu ▶ [PRINT ORDER], and press (OK).

To reset the print reservation data for all the pictures

2 Select [⎙] or [ALL⎙], and press (OK).

3 Select [RESET], and press (OK).



To reset the print reservation data for a selected picture

2 **Select [⎙], and press OK/FUNC.**

3 **Select [KEEP], and press OK/FUNC.**

4 **Press ◁▷ to select the picture with the print reservations you want to cancel, and press ▽ to decrease the number of prints to 0.**

- Repeat Step 4 to cancel print reservations for other pictures.

5 **When you are finished canceling print reservations, press OK/FUNC.**

6 **Select the date and time setting, and press OK/FUNC.**

- The setting is applied to the remaining pictures with print reservations.

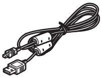
7 **Select [SET], and press OK/FUNC.**

Using OLYMPUS Master

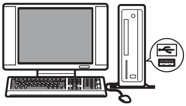
Using the USB cable provided with your camera, you can connect the camera and computer and download (transfer) the images to your computer using the OLYMPUS Master software, also provided with the camera.

Prepare the following items before starting.

OLYMPUS Master 2
CD-ROM



USB cable



A computer that satisfies the operating environment (P. 64) requirements

What is OLYMPUS Master?

OLYMPUS Master is a software application for managing your digital images on your computer.

Install the OLYMPUS Master software

Before installing the OLYMPUS Master software, please confirm that your computer is compatible with the following system requirements.
For newer operating systems, please refer to the Olympus web site as shown on the back cover of this manual.

Operating environment

	Windows	Macintosh
OS	Windows 2000 Professional/XP Home Edition/XP Professional/Vista	Mac OS X v10.3 or later
CPU	Pentium III 500 MHz or later	Power PC G3 500 MHz or later Intel Core Solo/Duo 1.5 GHz or later
RAM	256 MB or more	256 MB or more
Hard disk capacity	500 MB or more	500 MB or more
Monitor	1,024 × 768 pixels or more 65,536 colors or more (16.77 million colors or more recommended)	1,024 × 768 pixels or more 32,000 colors or more (16.77 million colors or more recommended)
Other	USB port or IEEE 1394 port Internet Explorer 6 or later QuickTime 7 or later recommended DirectX 9 or later recommended	USB port or IEEE 1394 port (FireWire) Safari 1.0 or later (1.3 or later recommended) QuickTime 6 or later

Note

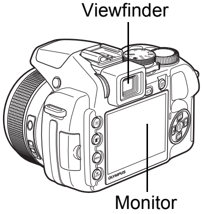
- Use a computer with a pre-installed operating system. Operations are not guaranteed on home-built computers or computers with an updated operating system.
- Operations are not guaranteed when using an added USB or IEEE 1394 (FireWire) port.
- To install the software, you must log on as a user with administrators' privileges.
- If you are using Macintosh, be sure to remove the media (drag & drop onto the trash icon) before performing the following operations. Failure to do so could result in unstable computer operation and the need to reboot.
  - Disconnect the cable connecting the camera to the computer
  - Turn off the camera
  - Open the camera's battery/card compartment cover

For how to install the OLYMPUS Master software, refer to the installation guide included in the CD-ROM.

Connecting the camera to a computer

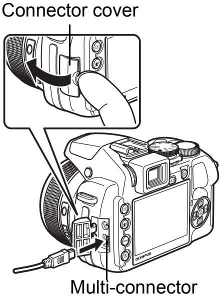
1 Make sure the camera is turned off.

- The monitor and viewfinder are off.
- The lens is retracted.

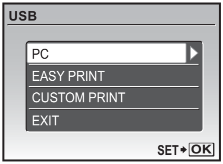


2 Connect the multi-connector on the camera to the USB port on the computer using the provided USB cable.

- Refer to your computer's instruction manual to locate the position of the USB port.
- The camera turns on automatically.
- The monitor turns on and the selection screen for the USB connection is displayed.



3 Select [PC], and press OK.



4 The camera is recognized by the computer.

- **Windows**
  When you connect the camera to your computer for the first time, the computer attempts to recognize the camera. Click "OK" to exit the message that is displayed. The camera is recognized as a "Removable Disk".
- **Macintosh**
  The iPhoto program is the default application for managing digital images. When you connect your digital camera for the first time, the iPhoto application starts automatically, so close this application and start OLYMPUS Master.

Note

- The camera functions are disabled while the camera is connected to a computer.
- Connecting the camera to a computer via a USB hub may cause unstable operation. In this case, do not use a hub, but connect the camera directly to the computer.
- Images cannot be transferred to your computer with OLYMPUS Master if [PC] is selected in Step 3, ▷ is pressed and [MTP] is selected.

Start up the OLYMPUS Master software

Windows

1 Double-click the "OLYMPUS Master 2" icon on the desktop.

Macintosh

1 Double-click the "OLYMPUS Master 2" icon in the "OLYMPUS Master 2" folder.

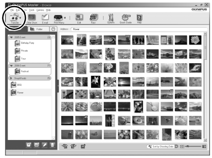
- The browse window is displayed.
- When OLYMPUS Master is started up for the first time after installation, the OLYMPUS Master initial setting screen and user registration screen are displayed before the browse window. Follow the on-screen instructions.

Displaying camera images on a computer

Downloading and saving images

1 Click "Transfer Images" on the browse window, and then click "From Camera" .

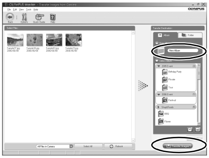
- The window for selecting the pictures you want to transfer from the camera is displayed. All the images in the camera are displayed.



2 Select "New Album" and enter an album name.

3 Select the image files and click "Transfer Images".

- A window indicating that the download is complete is displayed.

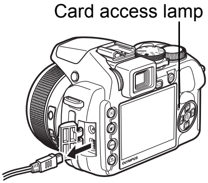


4 Click "Browse images now".

- The downloaded images are displayed in the browse window.

To disconnect the camera

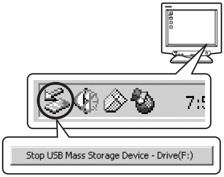
1 **Make sure that the card access lamp has stopped blinking.**



2 **Make the following preparations for disconnecting the USB cable.**

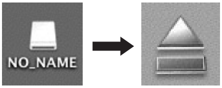
Windows

① Click the “Unplug or Eject Hardware” icon in the system tray.
② Click the message that is displayed.
③ When a message is displayed saying that the hardware can be ejected safely, click “OK”.


Stop USB Mass Storage Device - Drive(F:)

Macintosh

① The trash icon changes to the eject icon when the “Untitled” or “NO_NAME” icon on the desktop is dragged. Drag and drop it on the eject icon.



3 **Disconnect the USB cable from the camera.**

Note

- Windows: When you click “Unplug or Eject Hardware”, a warning message may be displayed. Make sure that image data is not being downloaded from the camera and that all applications are closed. Click the “Unplug or Eject Hardware” icon again and disconnect the cable.

For detailed operations of OLYMPUS Master, refer to the quick start guide displayed upon startup or the help of the OLYMPUS Master.

To download and save images to a computer without using OLYMPUS Master

This camera is compatible with USB mass storage. You can connect the camera to your computer using the USB cable provided with the camera to download and save images without using OLYMPUS Master. The following environment is required to use the USB cable to connect the camera to your computer.

Windows: Windows 2000 Professional/XP Home Edition/XP Professional/Vista

Macintosh: Mac OS X v10.3 or later

Note

- If your computer is running Windows Vista, you can select [PC] in Step 3 on P. 65, press ▷, and select [MTP] 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

Getting to know your camera better

Shooting tips and information

Tips before you start taking pictures

The camera does not turn on even when the batteries are loaded

The direction of the batteries is incorrect.

- Insert the batteries in the correct direction.

The battery power is exhausted

- Insert new batteries. When using rechargeable batteries, charge the batteries.

The battery is temporarily unable to function because of the cold

- Battery performance declines in low temperatures, and the charge may not be sufficient to turn on the camera. Remove the battery and warm it by putting it in your pocket for a while.

The card cannot be used

- If the contact area of the card is contaminated, data in the card cannot be read and the [CARD SETUP] screen may appear. In this case, select [CLEAN CARD], press OK/FUNC, remove the card, and then wipe the contact area with a soft dry cloth.

No picture is taken when the shutter button is pressed

The camera is in sleep mode

- To save battery power, the camera automatically enters sleep mode and the monitor turns off if there is no operation for a certain amount of time when the camera is turned on (the lens is extended and the monitor is on). You can select the time to enter the sleep mode from 1, 3, 5 or 10 minutes. No picture is taken even if the shutter button is fully pressed in this mode. Operate the shutter button or other buttons to restore the camera from sleep mode before taking a picture. If the camera is further left for 12 minutes, it automatically turns off (the lens retracts and the monitor turns off). Return the power switch to OFF and then set the power switch to ON.

☞ "SLEEP Setting the sleep time" (P.58)

The mode dial is set to ▶

- This is the playback mode for displaying pictures on the monitor. Set the mode dial to a shooting mode.

The mode dial is set to GUIDE

- No pictures can be taken when the shooting guide is being displayed. Take a picture after making the settings following the shooting guide, or turn the mode dial and set it to the position other than GUIDE in the shooting mode.

The flash is charging

- Wait until ϟ (flash charge) stops blinking before taking the picture.

The camera's internal temperature increases

- With prolonged camera use, the internal temperature may increase, resulting in automatic shutdown. If this occurs, remove the battery from the camera and 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.

The viewfinder does not turn on

The monitor is turned on

- Press |◻| to switch to the viewfinder.

The monitor does not turn on

The viewfinder is turned on

- Press |◻| to switch to the monitor.

The viewfinder or monitor is hard to see

There is condensation* inside the camera

- Turn the camera off. Before turning it on again, wait until the camera adjusts to the surrounding temperature and dries out.
  - * When it is cold outside, the water vapor in the air is rapidly cooled and turns to droplets of water. Condensation occurs when the camera is suddenly taken from a cold place into a warm room.

Vertical lines appear on the monitor screen during shooting

- Aiming the camera at a bright subject in sunlight may cause vertical lines to appear on the screen. This is not a malfunction.

The viewfinder is not properly adjusted

- Rotate the dioptre adjustment dial slightly and adjust.

☞ “Adjusting the viewfinder’s focus using the diopter” (P.9)

The date and time have not been set

The camera has been used in the same conditions from the time of purchase

- No date and time have been set for the camera at the time of purchase. Set the date and time before using the camera.

☞ “Turn the camera on” (P.6)
“◷ Setting the date and time” (P.54)

The battery has been pulled out of the camera

- The date and time settings will be returned to the factory default settings if the camera is left without batteries for approximately 3 days. In addition, if the batteries are inserted in the camera for a short period, the date and time settings will be returned to the factory default settings more quickly. Before taking important pictures, check that the date and time settings are correct.

Shooting tips

Focusing on the subject

There are several ways to focus, depending on the subject.

When the subject is not in the center of the frame

- Place the subject in the center of the frame, lock the focus on the subject, and then recompose your picture.
- Set [AF MODE] to [AREA].

☞ “AF MODE Changing the focusing area” (P.41)

The subject is moving quickly

- Focus the camera on a point roughly the same distance away as the subject you want to shoot and lock the focus (by pressing the shutter button halfway). Then recompose your picture and press the shutter button completely as the subject enters the frame.
- Set the mode dial to **S** to set the shutter speed, and then take the picture. Setting a fast shutter speed lets you capture fast-moving subjects as though they were standing still.

☞ “**S** Changing the shutter speed for shooting pictures” (P.17)

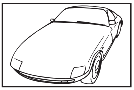
The subject is dark.

- Set [AF ILLUMINAT.] to [ON].

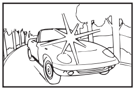
☞ “AF ILLUMINAT. Setting to light the illuminator in a dark place” (P.42)

Subjects that are difficult to focus on

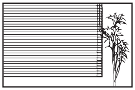
- Under certain types of conditions, it is difficult to focus using auto focus.



Subject with low contrast

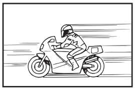


Subject with an extremely bright area in the center of the frame

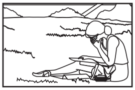


Subject without vertical lines

Subjects at different distances



Fast-moving subject



The subject is not in the center of the frame

In these cases, focus (focus lock) on an object with high contrast at the same distance as the intended subject, recompose your shot and then take the picture. If the subject has no vertical lines, hold the camera vertically and focus the camera using the focus lock function by pressing the shutter button halfway, and then return the camera to the horizontal position while keeping the button pressed halfway and take the picture.

Prevent blur by using image stabilization

Be sure to hold the camera firmly with both hands and press the shutter button slowly so as to avoid moving the camera. You can reduce blur when shooting by setting [IMAGE STABILIZER] to [ON].

☞ "IMAGE STABILIZER Shooting pictures using digital image stabilization" (P.42)

Pictures are more likely to be blurry when:

- images are shot at a high-magnification zoom setting, i.e. using both optical zoom and digital zoom functions,
- the object is dark and the shutter speed is slow, or
- the flash cannot be used or when a slow shutter speed set **SCN** mode is selected.

Taking stabilized pictures without the flash

To take pictures in low light places without flash, set the following after setting the flash mode to [⚡] (Flash off).

Increase the [ISO] setting

☞ "ISO Changing the ISO sensitivity" (P.40)

The picture is too grainy

There are several factors that can cause the picture to appear grainy.

Using the digital zoom to take close-up pictures

- With the digital zoom, part of the image is cropped and enlarged. The greater the magnification, the grainier the picture appears.

☞ "DIGITAL ZOOM Zooming in on your subject" (P.41)

Increasing the ISO sensitivity

- When you increase the [ISO] setting, "noise", which appears as spots of unwanted color or unevenness in the color, can be introduced and give the picture a grainy appearance. This camera is equipped with a function to allow shooting at high sensitivity while suppressing noise; however, increasing the ISO sensitivity creates grainier pictures than when using a lower sensitivity.

☞ "ISO Changing the ISO sensitivity" (P.40)

Taking pictures with the correct color

- The reason why there are differences between the colors in a picture and the actual colors taken and the actual color is the light source illuminating the subject. [WB] is the function that allows the camera to determine the correct colors. Normally, the [AUTO] setting provides the optimal white balance, but depending on the subject, it may be better to experiment with changing the [WB] setting.
  - When the subject is in the shade on a sunny day
  - When the subject is illuminated by both natural light and indoor lighting, such as when near a window
  - When there is no white in the center of the frame

☞ "WB Adjusting the color of a picture" (P.39)
"WB± Adjusting the white balance compensation" (P.43)

Taking pictures of a white beach or snow scene

- Take pictures with ⛱ or ⛄ in **SCN** mode. Suitable for taking pictures on a sunny day at the beach or in the snow.

☞ "**SCN** Shoot pictures by selecting a scene mode according to the situation" (P.18)

- Often, bright subjects (such as snow) turn out darker than their natural colors. Adjust ± toward [+] to make these subjects closer to their real shades. Conversely, when you are shooting dark subjects, it can be effective to adjust toward the [–]. Sometimes, using the flash may not produce the brightness (exposure) that was intended.

☞ "± button Changing picture brightness (Exposure Compensation)" (P.22)

Misalignment of panoramic pictures

- Panning along the camera central axis reduces picture misalignment. When you shoot close subjects, panning along the axis of the lens gives good results.
- In [COMBINE IN CAMERA1] mode, the camera automatically detects its own position except for the following cases (In such cases, use [COMBINE IN CAMERA 2] or [COMBINE IN PC].):
  - when panning the camera in a quick or unsteadily manner.
  - when shooting a low contrast subject (blue sky, etc.).
  - when shooting a moving subject framed in full screen.
  - when panning the camera with no images on-screen.

Taking pictures of a subject against backlight

- When Shadow Adjustment Technology is set to [ON], the face of the subject will appear brighter even against backlight. This function is also effective when shooting indoor pictures from outdoor.

☞ "☀ Brightening the subject against backlight (Shadow Adjustment Technology)" (P.25)

- With [METERING] set to [⊙], the picture can be taken based on the brightness of the subject in the AF target mark area without being affected by the light in the background.

☞ "METERING Changing the area for measuring the brightness of a subject" (P.41)

- Set the flash to [ϟ] (Fill-in flash) to activate fill-in-flash. You can shoot a subject against backlight without the face of the subject appearing dark. [ϟ] (Fill-in flash) is effective for shooting against backlight and under fluorescent and other artificial lighting.

☞ "▷ϟ button Flash shooting" (P.23)

- It is effective to set the exposure compensation to [+] by pressing ± when shooting against strong backlighting.

☞ "± button Changing picture brightness (Exposure Compensation)" (P.22)

- With [AF MODE] set to [FACE DETECT], the face of the subject will be given due exposure even against backlight and it will appear brighter.

☞ "AF MODE Changing the focusing area" (P.41)

When the subject is too bright or too dark

- When taking pictures in **S** mode or **A** mode, the shutter speed or aperture setting may be displayed in red. A red display means that the correct exposure cannot be obtained. If you take the picture as is, the picture will appear too bright or too dark. In this case, use the control dial to change the settings.

☞ "**A** Changing the aperture value for shooting pictures" (P.17)
"**S** Changing the shutter speed for shooting pictures" (P.17)

Additional shooting tips and information

Increasing the number of pictures that can be taken

There are two ways to record the pictures you take with this camera.

Recording pictures to the internal memory

- Pictures are recorded to the internal memory, and when the number of storable still pictures reaches 0, you must connect the camera to a computer to download the pictures, and then erase the pictures from the internal memory.

Using a card (xD-Picture Card) (optional)

- Pictures are recorded to the card when inserted in the camera. When the card is full, download the pictures to a computer, and then either erase the pictures from the card or use a new card.
- Pictures are not recorded to the internal memory when a card is inserted in the camera. Pictures in the internal memory can be copied to the card using the [BACKUP] function.

☞ "BACKUP Copying pictures in the internal memory to the card" (P.52)
"The card" (P.85)

Number of storable still pictures and recording length of movies

Still pictures

IMAGE SIZE		COMPRESSION	Number of storable still pictures			
			Internal memory		Using a 1GB card	
			With sound	Without sound	With sound	Without sound
RAW	3648 × 2736	Uncompressed	3	3	68	69
10M	3648 × 2736	FINE	9	9	204	205
		NORM	18	18	397	402
5M	2560 × 1920	FINE	18	18	404	410
		NORM	35	35	770	789
3M	2048 × 1536	FINE	27	28	615	627
		NORM	51	53	1142	1184
2M	1600 × 1200	FINE	43	44	954	984
		NORM	76	80	1683	1776
1M	1280 × 960	FINE	63	66	1390	1453
		NORM	107	116	2369	2558
VGA	640 × 480	FINE	223	264	4920	5814
		NORM	363	484	7995	10660
16:9	1920 × 1080	FINE	40	41	888	913
		NORM	72	76	1599	1683

Movie

IMAGE SIZE		FRAME RATE	Continuous recording length			
			Internal memory		Using a 1 GB card	
			With sound	Without sound	With sound	Without sound
VGA	640 × 480	30	25 sec.	25 sec.	9 min. 25 sec.	9 min. 28 sec.
		15	51 sec.	51 sec.	18 min. 44 sec.	18 min. 56 sec.
QVGA	320 × 240	30	1 min. 9 sec.	1 min. 10 sec.	25 min. 26 sec.	25 min. 49 sec.
		15	2 min. 16 sec.	2 min. 20 sec.	50 min. 7 sec.	51 min. 38 sec.

Using a new card

- If you use a non-Olympus card or a card used for another application, such as for a computer, use [FORMAT] function to format the card.

☞ "MEMORY FORMAT (FORMAT) Formatting the internal memory or card" (P.52)

The card access lamp is blinking

- An image or movie is being recorded or downloaded (when connected to a computer).
- Do not do any of the following while the card access lamp is blinking. Doing so may prevent the image data from being saved and render the internal memory or card unusable.
  - Open the battery/card compartment cover.
  - Remove the battery and card.
  - Disconnect the USB cable.

Extending the useful life of the battery

- Performing any of the following operations when not actually taking pictures can deplete the battery power.
  - The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus and digital image stabilization.
  - Using the zoom repeatedly.
  - [FULLTIME AF] is set to [ON].
  - The monitor is left on for an extended period of time.
  - The camera is connected to a computer or printer.

Functions that cannot be selected from menus/buttons

- Some items may not be selectable from the menus when using the arrow pad. (Menu items displayed in gray cannot be selected.)
  - Items that cannot be set with the current shooting mode
  - Items that cannot be set because of an item that has already been set:
    When the focus mode is set to [MF], [AF MODE] cannot be selected.
- Some items cannot be set when the button is pressed.
  [s🌷] and [⚡].
- The function settings cannot be changed when the mode dial is set to **GUIDE**.
- Some functions cannot be used when there is no card in the camera.
  [PANORAMA]/[PRINT ORDER]/[FORMAT]/[BACKUP]

Restoring default settings

- This camera retains a part of the settings even after the power is turned off. To return the settings to default settings, execute [RESET].
  When the mode dial is set to **P**, **A**, **S**, **M** or 🎥: the settings are retained even after the power is turned off (except for the settings of ⏲, [PANORAMA] and [TIMELAPSE] shootings).
  When the mode dial is set to **AUTO** or **SCN**: the settings return to default (except for [IMAGE QUALITY]).

☞ "RESET Change the shooting functions back to default settings" (P.35)

Confirming the exposure when the monitor is difficult to see outdoors

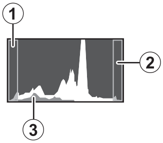
The monitor may be difficult to see (and the exposure difficult to confirm) when shooting under bright light.

Press DISP./? repeatedly to display the histogram

- Set the exposure so that the graph is concentrated on the outer edges and the graph is balanced on both sides.

  How to read the histogram

  ① If the peak fills too much of the frame, the image will appear mostly black.
  ② If the peak fills too much of the frame, the image will appear mostly white.
  ③ The part indicated in green in the histogram shows the luminance distribution within the AF target mark.



☞ "**DISP./?** button Changing the information on display/Displaying the menu guide/Checking the time" (P.26)

Using the viewfinder

☞ "|◯| button Monitor/Viewfinder" (P.22)

Playback help and troubleshooting tips

The red-eye cannot be fixed

- Depending on the picture, the red-eye may not be fixed. Also, parts except the eye may be fixed.

The light is caught in the picture

- The light may be caught in the picture being reflected by the dusts in the air, when shooting with flash in the night.

Playback tips

Playing back the picture in the internal memory

- When a card has been inserted in the camera, the picture in the internal memory cannot be played back. Turn off the camera and remove the card to playback pictures stored in the camera's internal memory.

Understanding the settings and other information of pictures taken

- Play back a picture, and press **DISP./?**. Press **DISP./?** repeatedly to change the amount of information displayed.

☞ "**DISP./?** button Changing the information on display/Displaying the menu guide/Checking the time" (P.26)

Quickly displaying a desired picture

- Turn the control dial in playback mode to view the pictures as thumbnails (index display) or in a calendar format (calendar display).

☞ “Control dial Index display/Calendar display/Close-up playback” (P.22)

Erasing sound recorded to still pictures

- Once sound is added to a picture, it is not possible to erase the sound. In this case, make a re-recording with silence. Sound recording is not possible if there is insufficient space in the internal memory or on the card.

☞ “🎤 Adding sound to still pictures” (P.50)

Viewing pictures on a computer

Viewing the entire picture on a computer screen

The size of the picture displayed on a computer screen changes depending on the computer settings. When the monitor setting is 1024 × 768 and you are using Internet Explorer to view a picture with an image size of 2048 × 1536 at 100 %, the entire picture cannot be viewed without scrolling. There are several ways you can view the entire picture on the computer screen.

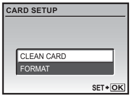
View the picture using image browsing software

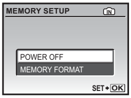
- Install the OLYMPUS Master 2 software from the provided CD-ROM.

Change the monitor setting

- The icons on the computer desktop may be rearranged. For details of changing the settings on your computer, refer to the computer’s instruction manual.

When you get an error message on the camera

Monitor indication	Possible cause	Corrective action
! **CARD ERROR**	There is a problem with the card.	This card cannot be used. Insert a new card.
! **WRITE PROTECT**	Writing to the card is prohibited.	The recorded image has been protected (read-only) on a computer. Download the image to a computer and cancel the read-only setting.
! **MEMORY FULL**	The internal memory has no available memory and cannot store any new data.	Insert a card or erase unwanted data. Before erasing, backup the data of important pictures onto the card, or download such pictures to a computer.
! **CARD FULL**	The card has no available memory and cannot store any new data.	Replace the card or erase unwanted data. Before erasing, download important pictures to a computer.
NO PICTURE	There are no pictures in the internal memory or on the card.	The internal memory or the card contains no pictures. Record pictures.
! **PICTURE ERROR**	There is a problem with the selected picture and it cannot be played back on this camera.	Use image processing software to view the picture on a computer. If that cannot be done, the image file is damaged.
! **THE IMAGE CANNOT BE EDITED**	If pictures taken by other cameras are selected, they cannot be edited.	Use image processing software to edit the pictures.
CARD-COVER OPEN	The card cover is open.	Close the card cover.
BATTERY EMPTY	The battery is empty.	Insert new batteries. When using rechargeable batteries, charge the batteries.
Recording has stopped to allow camera to cool. Please wait a moment.	When [IMAGE STABILIZER] is set to [ON], the camera's internal temperature rises due to continuous movie recording for a long period, thereby causing shooting to stop.	Allow the camera to cool down for some time before you begin shooting again. Or you can shoot with [IMAGE STABILIZER] set to [OFF].
Camera is cooling. Please wait a moment.		
 CARD SETUP CLEAN CARD FORMAT SET ➜ OK	Data in the card cannot be read. Or, the card is not formatted.	• Select [CLEAN CARD], and press OK. Remove the card and wipe the contact area with a soft dry cloth. • Select [FORMAT] ▶ [YES] and press OK. All data on the card is erased.

Monitor indication	Possible cause	Corrective action
	There is an error in the internal memory.	Select [MEMORY FORMAT] ▸ [YES] and press OK FUNC. All data in the internal memory is erased.
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 tray has been removed or the printer has been operated while changing settings on the camera.	Do not operate the printer while changing settings on the camera.
PRINT ERROR	There is a problem with the printer and/or camera.	Turn off the 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 computer to print.

Functions that can be assigned to My Mode/custom button

Function	MY MODE SETUP	CUSTOM BUTTON	Ref. Page
P/**A**/**S**/**M**/**SCENE**	✓	—	P.6
±	✓	—	P.22
FNo.	✓	—	P.17
SHUTTER	✓	—	P.17
FLASH MODE	✓	—	P.23
🌷	✓	—	P.27
⏲	✓	—	P.28
☀	✓	—	P.25
MONITOR (▭)[*1]	✓	—	P.22
ZOOM[*2]	✓	—	—
IMAGE QUALITY	✓	✓	P.34
IMAGE SIZE	✓	✓	P.34
COMPRESSION	✓	✓	P.34
WB	✓	—	P.39
ISO	✓	—	P.40
DRIVE	✓	—	P.40
FINE ZOOM	✓	✓	P.41
DIGITAL ZOOM	✓	✓	P.41
METERING	✓	—	P.41
AF MODE	✓	✓	P.41
FULLTIME AF	✓	✓	P.42
AF PREDICT	✓	✓	P.42
AF ILLUMINAT.	✓	—	P.42
IMAGE STABILIZER	✓	✓	P.42
⚡±	✓	—	P.42
⚡FLASH	✓	✓	P.43
🎙 (still pictures)	✓	✓	P.43
WB±	✓	—	P.43
PICTURE MODE	✓	—	P.43
SHARPNESS	✓	—	P.44
CONTRAST	✓	—	P.44
SATURATION	✓	—	P.44
NOISE REDUCT.	✓	✓	P.44
TIMELAPSE	✓	—	P.45
▭ (conversion lens)	✓	—	P.45
INFO	✓	—	P.26
FRAME ASSIST	✓	—	P.56
📊	✓	—	P.57

[*1] Set whether to use the monitor or viewfinder.

[*2] For [ZOOM], select from 26 mm, 50 mm, 150 mm, 300 mm or 520 mm. (These numbers are based on the focal length of a 35 mm camera.)

Functions available in shooting modes

Some functions cannot be set in certain shooting modes. For more details, refer to the table below. In MY mode, available functions vary depending on the modes set in the [MY MODE SETUP] menu.

In SCN mode, the settings are optimized for the shooting situation. To ensure the best effect, setting restrictions apply to certain functions (indicated by ▨).

Function	Shooting mode	AUTO	P	A	S	M	SCN	🎥	Ref. Page
Flash mode	AUTO	✓	✓	✓	—	—	▨	—	P.23
	👁	✓	✓	✓	—	—	▨	—	P.23
	⚡	✓	✓	✓	✓	✓	▨	—	P.23
	👁⚡	✓	✓	✓	✓	✓	▨	—	P.23
	⚡SLOW	✓	✓	✓	✓	✓	▨	—	P.23
	👁SLOW	✓	✓	✓	✓	✓	▨	—	P.23
	⚡SLOW2	✓	✓	✓	✓	✓	▨	—	P.24
	⊘	✓	✓	✓	✓	✓	▨	—	P.23
±		✓	✓	✓	✓	—	✓	✓	P.22
Aperture value		—	—	✓	—	✓	—	—	P.17
Shutter speed		—	—	—	✓	✓	—	—	P.17
🌷		✓	✓	✓	✓	✓	▨	✓	P.27
S🌷		✓	✓	✓	✓	✓	▨	✓	P.27
⏱		✓	✓	✓	✓	✓	▨	✓	P.28
INFO		✓	✓	✓	✓	✓	✓	—	P.26
Optical zoom		✓	✓	✓	✓	✓	▨	✓*1	P.21
AE LOCK		—	✓	✓	✓	—	▨	—	P.23
AF LOCK		—	✓	✓	✓	✓	▨	—	P.23
AF LOCK + AE LOCK		—	✓	✓	✓	—	▨	—	P.23
☺		✓	✓	✓	✓	✓	▨	✓	P.25
IMAGE QUALITY		—	✓	✓	✓	✓	—	—	P.34
IMAGE SIZE		✓	✓	✓	✓	✓	▨	✓	P.34
COMPRESSION		✓	✓	✓	✓	✓	▨	—	P.34
FRAME RATE		—	—	—	—	—	—	✓	P.35
WB		—	✓	✓	✓	✓	✓	✓	P.39
ISO		—	✓	✓	✓	✓*2	▨	—	P.40
DRIVE		—	✓	✓	✓	✓*3	▨	—	P.40
FINE ZOOM		—	✓	✓	✓	✓	▨	—	P.41
DIGITAL ZOOM		—	✓	✓	✓	✓	▨	✓	P.41
METERING		—	✓	✓	✓	✓	▨	✓	P.41

Function \ Shooting mode	AUTO	P	A	S	M	SCN	🎥	Ref. Page
AF MODE	—	✓	✓	✓	✓		—	P.41
Focus mode	—	✓	✓	✓	✓		—	P.24
FULLTIME AF	—	✓	✓	✓	✓		✓	P.42
AF PREDICT	—	✓	✓	✓	✓		—	P.42
AF ILLUMINAT.	—	✓	✓	✓	✓		—	P.42
IMAGE STABILIZER	—	✓	✓	✓	✓	✓	✓	P.42
⚡±	—	✓	✓	✓	✓		—	P.42
FLASH	—	✓	✓	✓	✓		—	P.43
🎙 (still pictures)	—	✓	✓	✓	✓		—	P.43
PANORAMA	—	✓	—	—	—		—	P.36
WB±	—	✓	✓	✓	✓	✓	✓	P.43
PICTURE MODE	—	✓	✓	✓	✓	—	—	P.43
SHARPNESS	—	✓	✓	✓	✓	✓	✓	P.44
CONTRAST	—	✓	✓	✓	✓	✓	✓	P.44
SATURATION	—	✓	✓	✓	✓	✓	✓	P.44
NOISE REDUCT.	—	✓	✓	✓	✓*4		—	P.44
TIMELAPSE	—	✓	✓	✓	✓		—	P.45
(conversion lens)	—	✓	✓	✓	✓		✓	P.45
🎙 (movies)	—	—	—	—	—	—	✓	P.45

*1 When [🎙] (movies) is set to [ON], optical zoom cannot be used during the shooting. To zoom in when [🎙] (movies) is set to [ON], set [DIGITAL ZOOM] to [ON].

*2 [AUTO] and [HIGH ISO AUTO] are not available.

*3 [BKT] is not available.

*4 This is fixed at [ON] during bulb shooting.

Appendix

Camera care

Cleaning the camera

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

Monitor and viewfinder:
- Wipe gently with a soft cloth.

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

! Note

- Do not use strong solvents such as benzene or alcohol, or chemically treated cloth.
- Mold may form on the lens surface if the lens is left dirty.

Storage

- When storing the camera for extended periods, remove the battery, AC adapter and card, and keep in a cool, dry place that is well ventilated.
- Periodically insert the battery and test the camera functions.

! Note

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

Battery Handling Precautions

● In addition to the batteries provided with the camera, the following types of battery can be used. Choose the power source best suited to the situation.
AA alkaline batteries
The number of pictures that you can take may vary considerably depending on the battery manufacturer and shooting conditions.
AA NiMH batteries (rechargeable batteries)
Olympus NiMH batteries are rechargeable and economical. For details, refer to the instruction manual for your charger.

● **The following types of batteries cannot be used.**
Lithium battery pack (CR-V3)/AA (R6) manganese (zinc-carbon) batteries/AA (R6) oxyride batteries/AA (R6) lithium batteries

● Power consumption by the camera varies depending on which functions are used.

● Power is consumed continuously during the conditions described below causing batteries to become exhausted quickly.
  - The zoom is used repeatedly.
  - The shutter button is pressed halfway repeatedly in shooting mode, activating the auto focus and digital image stabilization.
  - Set [FULLTIME AF] to [ON].
  - The monitor is left on for an extended period of time.
  - The camera is connected to a computer or printer.

● Battery life varies depending on the type of battery, manufacturer, shooting conditions, etc. Similarly, the camera may turn off without displaying the battery level warning or may display the battery level warning more quickly.

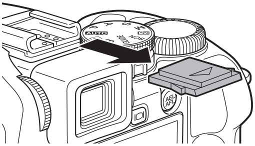
External flash shooting

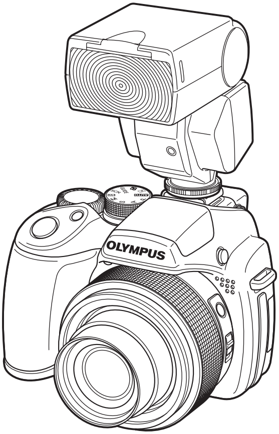
Using a dedicated external flash

Using an Olympus FL series dedicated external flash enables you to take advantage of a wider variety of flash shooting techniques. A dedicated external flash automatically detects the flash mode and exposure settings of the camera, in the same way as the built-in flash. An external flash specified for use with this camera can be attached to the hot shoe on the top of the camera or used in combination with an FL-BK01 flash bracket (optional) and FL-CB02 bracket cable (optional).

1 Slide the hot shoe cover off in the direction of the arrow and attach the external flash.

- For instructions on how to attach the external flash, refer to the manual provided with the flash.
- Keep the hot shoe cover in a safe place to avoid losing it, and put it back on the camera after removing the external flash.





2 Turn the external flash on.

- Set the flash control mode of the flash to TTL-AUTO.
- Be sure to attach the flash to the camera before turning the flash on.

3 Press ▷⚡ repeatedly to set the flash mode.

☞ “▷⚡ button Flash shooting” (P.23)

❗ Note

- The Olympus FL-40 external flash cannot be used.
- You cannot use the built-in flash when an external flash is attached to the hot shoe.
- When using an external flash, the power turns off automatically when a certain amount of time has passed. For more details, refer to the instruction manual provided with the flash.

Using commercially available external flashes

You can use any commercial external flash that can be connected to the hot shoe. You cannot use the camera to adjust the amount of light emitted from a commercially available external flash other than the Olympus FL series.

☞ "Compatible external flashes" (P.83)

1 Attach the external flash to the hot shoe and connect it to the camera.

- For instructions on how to attach the external flash, refer to the manual provided with the flash.

2 Set the shutter speed and aperture value

☞ "**M** Changing the aperture value and shutter speed for shooting pictures" (P.17)

- A slow shutter speed may produce blurred images. To use the flash to best effect, you are recommended to set the shutter speed to between 1/200 and 1/300 sec.

3 Turn the external flash on.

- Be sure to attach the flash to the camera before turning the flash on.

4 Set the flash intensity control on the external flash to AUTO and set the ISO sensitivity and aperture value of the external flash to match the camera ISO sensitivity and aperture value.

- For instructions on how to select the flash control mode of the external flash, refer to the manual provided with the flash.

! Note

- The flash mode set on the camera is not applied to a commercial external flash.The flash will fire even when the flash mode is set to [⊘] (flash off) on the camera.
- Check whether your external flash is synchronized with the camera before using it.

Compatible external flashes

Be sure to check the following items before using a commercial external flash.

(1) Exposures when using an external flash require that adjustments are made on the external flash. If an external flash is used in auto mode, use a flash that can be adjusted to match the f-number and ISO sensitivity settings on the camera.

(2) Even if the auto f-number and ISO sensitivity settings on the external flash correspond with those on the camera, the correct exposure may not be obtained depending on the shooting conditions. In such a case, adjust the auto f-number or ISO value on the external flash or calculate the distance in manual mode.

(3) Use an external flash with an illumination angle that covers the angle of view of the lens. However, when shooting at short range in wide mode, the bottom of the screen may be cut off. It is advisable to use an external flash equipped with a wide adapter that provides broad light distribution.

(4) Use an external flash with a flash time at full emission of 1/200 seconds or less. If the flash time is longer, not all the light may contribute to exposure.

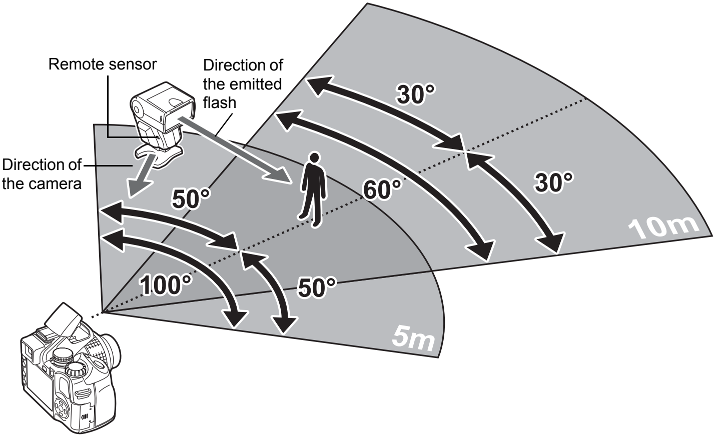
(5) Use of an external flash unit with communication capability or its accessory, other than the Olympus FL series, may not only impair normal functioning, but may also cause malfunction.

Shooting with the Olympus wireless RC flash system

Wireless flash shooting is possible with the Olympus wireless RC flash system. With this wireless flash system, you can take pictures using multiple wireless flashes. The built-in flash is used to communicate between the camera and the external flashes.
For details on using the wireless flash, see the manual of the external flash.

Wireless flash setup range

Position the wireless flash so that the wireless sensor faces the camera. The setup range guidelines are as shown below. The range changes according to the surrounding environment.



1 **Position the flash while referring to the “Wireless flash setup range”, and turn on the flash.**

2 **Press the MODE button on the flash to set it to RC mode, and set the channel and group of the flash. Set the group to A (the flash will not operate if B or C is selected).**

3 **Select [⚡RC] from [≡FLASH] on the camera, and then set [CH1] - [CH4] to the same channel as the flash.**

☞ “≡FLASH Setting to use an external flash” (P.43)

4 **Press ⚡UP to raise the built-in flash.**

5 **Select a flash mode.**

- Red-eye reduction flash is not possible in RC mode.

6 **After shooting preparations are completed, take some test shots to check the flash operation and images.**

7 **Begin shooting while checking the charging completed indications of the camera and flash.**

Note

- Although there is no limit to the number of wireless flashes you can use, it is recommended that no more than three flashes be used to prevent flash malfunction due to mutual interference.
- In RC mode, the built-in flash is used to control the wireless flash. The built-in flash cannot be used for flash shooting in this mode.
- For 2nd curtain synchronization, set the shutter speed to within 4 seconds. Wireless flash shooting may not operate properly when using a slower shutter speed.

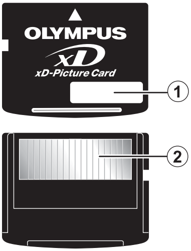
Useful use of the accessories

The card

Pictures can be recorded on the optional card.
The internal memory and card are the camera's media for recording pictures, similar to film in a film camera.
Pictures recorded to the internal memory or card can be easily erased on the camera or processed using a computer.
Unlike portable storage media, the internal memory cannot be removed or exchanged.
The number of recordable pictures can be increased by using a card with a larger capacity.

① Index area
You can use this space to note down the contents of the card.

② Contact area
The part where the data transferred from the camera enters the card. Do not touch this part with your hands.

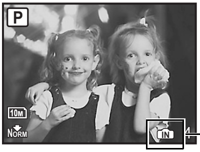


Compatible cards
xD-Picture Card (16 MB - 2 GB) (TypeH/M, Standard)

Using the internal memory or card

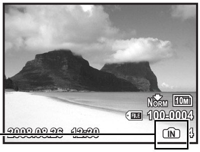
You can confirm on the monitor whether the internal memory or card is being used during shooting and playback operations.

Shooting mode



Memory indicator
IN: When using the internal memory
No icon: When using a card

Playback mode



Note

- Do not open the battery compartment cover and card cover while the card access lamp is blinking as data reading and writing is in progress. Doing so may damage the data in the internal memory or the card and render the internal memory or card unusable.

AC adapter

An AC adapter is useful for time-consuming tasks such as image downloads to a computer or when running a slideshow for a long period of time.
Do not use any other AC adapter with this camera.

Note

- Do not remove or load the battery or connect or disconnect the AC adapter or the multi-adapter while the camera is turned on. Doing so could affect the camera's internal settings or functions.
- Be sure to read the instruction manual for the AC adapter.

Using your AC adapter abroad

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

SAFETY PRECAUTIONS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

General Precautions

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

Handling the Camera

⚠WARNING

- **Do not use the camera near flammable or explosive gases.**
- **Do not use the flash and LED on people (infants, small children, etc.) at close range.**
  - You must be at least 1 m (3 ft.) away from the faces of your subjects. Firing the flash too close to the subject’s eyes could cause a momentary loss of vision.
- **Keep young children and infants away from the camera.**
  - Always use and store the camera out of the reach of young children and infants to prevent the following dangerous situations which could cause serious injury:
    - Becoming entangled in the camera strap, causing strangulation.
    - Accidentally swallowing the battery, cards or other small parts.
    - Accidentally firing the flash into their own eyes or those of another child.
    - Accidentally being injured by the moving parts of the camera.
- **Do not look at the sun or strong lights with the camera.**
- **Do not use or store the camera in dusty or humid places.**
- **Do not cover the flash with a hand while firing.**

⚠CAUTION

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

Battery Handling Precautions

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

⚠ DANGER

- Use only the Olympus brand NiMH batteries and proper fitting charger.
- Never heat or incinerate batteries.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, etc.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.
- Always store batteries out of the reach of small children. If a child accidentally swallows a battery, seek medical attention immediately.

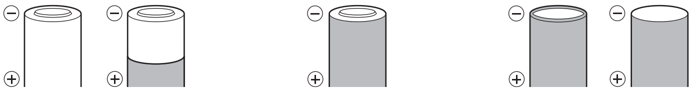
⚠ WARNING

- Keep batteries dry at all times.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Never mix batteries (old and new batteries, charged and uncharged batteries, batteries of different manufacture or capacity, etc.).
- Never attempt to charge alkaline, lithium or CR-V3 lithium battery packs.
- Insert the battery carefully as described in the operating instructions.
- Do not use batteries if their body is not covered by the insulating sheet or if the sheet is torn, as this may cause fluid leaks, fire, or injury.

⚠ CAUTION

- Do not remove batteries immediately after using the camera. Batteries may become hot during prolonged use.
- Always unload the battery from the camera before storing the camera for a long period.

- **The following AA (R6) batteries cannot be used.**



Batteries whose bodies are only partially or not at all covered by an insulating sheet.

Batteries whose - terminals are raised, but not covered by an insulating sheet.

Batteries whose terminals are flat and not completely covered by an insulating sheet. (Such batteries cannot be used even if the - terminals are partially covered.)

- If NiMH batteries are not charged within the specified time, stop charging them and do not use them.
- Do not use a battery if it is cracked or broken.
- If a battery leaks, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the camera.
- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Never subject batteries to strong shocks or continuous vibration.

Caution for Usage Environment

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

Battery Handling Precautions

- Olympus NiMH batteries (included in some areas) are intended for use only with Olympus digital cameras. Never use these batteries with any other device.
- Always charge NiMH batteries (included in some areas) before using them for the first time, or if they have not been used for a long period.
- Always charge sets of batteries (included in some areas) (2 or 4) together.
- Do not use alkaline batteries unless it is absolutely necessary. In some cases, alkaline batteries may have a shorter service life than NiMH. Alkaline battery performance is limited, especially at low temperatures. The use of NiMH batteries is recommended.
- AA manganese (Zinc-Carbon) batteries cannot be used with this camera.
- When operating the camera with battery power at low temperatures, try to keep the camera and spare batteries as warm as possible. Batteries which run down at low temperatures may be restored after they are warmed at room temperature.
- Recommended temperature ranges for NiMH batteries:

Operation	0°C to 40°C (32°F to 104°F)
Charge	0°C to 40°C (32°F to 104°F)
Storage	-20°C to 30°C (-4°F to 86°F)

- Using, charging, or storing the batteries outside these ranges could shorten battery life or affect battery performance. Always unload the batteries from the camera before storing the camera for a long period.
- Before using NiMH or NiCd batteries, always read the provided instructions.
- The number of pictures you can take may vary depending on the shooting conditions or batteries.
- Before going on a long trip, and especially before traveling abroad, purchase an ample supply of extra batteries. The recommended batteries 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.

LCD 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 LCD monitor may take a long time to turn on or its color may change temporarily. When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. An LCD monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The LCD used for the monitor is made with high-precision technology. However, black spots or bright spots of light may appear constantly on the LCD Monitor. Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.

Legal and Other Notices

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

Disclaimer of Warranty

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

Warning

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

Copyright Notice

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

For customers in Europe

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

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

Provisions of warranty

1. If this product proves to be defective, although it has been used properly (in accordance with the written Handling Care and Operating instructions supplied with it), during a period of two years from the date of purchase from an authorized Olympus distributor within the business area of Olympus Imaging Europa GmbH as stipulated on the website: http://www.olympus.com this product will be repaired, or at Olympus’s option replaced, free of charge. To claim under this warranty the customer must take the product and this Warranty Certificate before the end of the two year warranty period to the dealer where the product was purchased or any other Olympus service station within the business area of Olympus Imaging Europa GmbH as stipulated on the website: http://www.olympus.com. During the one year period of the World Wide Warranty the customer may turn the product in at any Olympus service station. Please notice that not in all countries such Olympus service station exists.
2. The customer shall transport the product to the dealer or Olympus authorized service station at his own risk and shall be responsible for any costs incurred in transporting the product.

3. This warranty does not cover the following and the customer will be required to pay repair charge, even for defects occurring within the warranty period referred to above.
    (a) Any defect that occurs due to mishandling (such as an operation performed that is not mentioned in the Handling Care or other sections of the instructions, etc.)
    (b) Any defect that occurs due to repair, modification, cleaning, etc. performed by anyone other than Olympus or an Olympus authorized service station.
    (c) Any defect or damage that occurs due to transport, a fall, shock, etc. after purchase of the product.
    (d) Any defect or damage that occurs due to fire, earthquake, flood damage, thunderbolt, other natural disasters, environmental pollution and irregular voltage sources.
    (e) Any defect that occurs due to careless or improper storage (such as keeping the product under conditions of high temperature and humidity, near insect repellents such as naphthalene or harmful drugs, etc.), improper maintenance, etc.
    (f) Any defect that occurs due to exhausted batteries, etc.
    (g) Any defect that occurs due to sand, mud, etc. entering the inside of the product casing.
    (h) When this Warranty Certificate is not returned with the product.
    (i) When any alterations whatsoever are made to the Warranty Certificate regarding the year, month and date of purchase, the customer's name, the dealer's name, and the serial number.
    (j) When proof of purchase is not presented with this Warranty Certificate.
4. This Warranty applies to the product only; the Warranty does not apply to any other accessory equipment, such as the case, strap, lens cap and batteries.
5. Olympus's sole liability under this warranty shall be limited to repairing or replacing the product. Any liability for indirect or consequential loss or damage of any kind incurred or suffered by the customer due to a defect of the product, and in particular any loss or damage caused to any lenses, films, other equipment or accessories used with the product or for any loss resulting from a delay in repair or loss of data, is excluded. Compelling regulations by law remain unaffected by this.

Notes regarding warranty maintenance

1. This warranty will only be valid if the Warranty Certificate is duly completed by Olympus or an authorized dealer or other documents contain sufficient proof. Therefore, please make sure that your name, the name of the dealer, the serial number and the year, month and date of purchase are all completed or the original invoice or the sales receipt (indicating the dealer's name, the date of purchase and product type) is attached to this Warranty Certificate. Olympus reserves the right to refuse free-of-charge service if neither Warranty Certificate is completed nor the above document is attached or if the information contained in it is incomplete or illegible.
2. Since this Warranty Certificate will not be re-issued, keep it in a safe place.

* Please refer to the list on the website: http://www.olympus.com for the authorized international Olympus service network.

Trademarks

- IBM is a registered trademark of International Business Machines Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Inc.
- xD-Picture Card™ is a trademark.
- All other company and product names are registered trademarks and/or trademarks of their respective owners.
- The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).

SPECIFICATIONS

● Camera

Product type	Digital camera (for shooting and displaying)
Recording system	
Still pictures	Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), RAW data
Applicable standards	Exif 2.2, Digital Print Order Format (DPOF), PRINT Image Matching III, PictBridge
Sound with still pictures	Wave format
Movie	AVI Motion JPEG
Memory	Internal memory xD-Picture Card (16 MB - 2 GB) (TypeH/M, Standard)
No. of effective pixels	10,000,000 pixels
Image pickup device	1/2.33" CCD (primary color filter), 10,700,000 pixels (gross)
Lens	Olympus lens 4.6 to 92 mm, f2.8 to 4.5 (equivalent to 26 to 520 mm on a 35 mm camera)
Photometric system	Digital ESP metering, spot metering, center weighted metering
Shutter speed	15 to 1/2000 sec. (During bulb: Max. 8 minutes)
Aperture	F2.8 to F8.0
Shooting range	0.1 m (3.9 in.) to ∞ (W) 1.2 m (47.2 in.) to ∞ (T) (normal/macro mode) 0.01 m (0.4 in.) to ∞ (super macro mode)
Monitor	2.7" TFT color LCD display, 230,000 dots
Flash charge time	Approx. 7 sec. (for full flash discharge at room temperature using a new fully charged battery)
Connector	DC-IN jack USB connector, A/V OUT jack (multi-connector)
Automatic calendar system	2000 up to 2099
Operating environment	
Temperature	0 °C to 40 °C (32 °F to 104 °F) (operation)/ -20 °C to 60 °C (-4 °F to 140 °F) (storage)
Humidity	30 % to 90 % (operation)/10 % to 90 % (storage)
Power supply	AA alkaline / NiMH battery (four) or Olympus AC adapter
Dimensions	118.5 mm (W) × 84 mm (H) × 87.5 mm (D) (4.7 × 3.3 × 3.4 in.) (excluding protrusions)
Weight	445 g (15.7 oz) without batteries and card

Design and specifications subject to change without notice.

Index

OLYMPUS®

http://www.olympus.com/

OLYMPUS IMAGING CORP.

Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan

OLYMPUS IMAGING AMERICA INC.

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

Technical Support (USA)

24/7 online automated help: http://www.olympusamerica.com/support
Phone customer support: Tel. 1-888-553-4448 (Toll-free)

Our phone customer support is available from 8 am to 10 pm
(Monday to Friday) ET
http://olympusamerica.com/contactus
Olympus software updates can be obtained at: http://www.olympusamerica.com/digital

OLYMPUS IMAGING EUROPA GMBH

Premises: Wendenstrasse 14-18, 20097 Hamburg, Germany
Tel: +49 40-23 77 3-0 / Fax: +49 40-23 07 61
Goods delivery: Bredowstrasse 20, 22113 Hamburg, Germany
Letters: Postfach 10 49 08, 20034 Hamburg, Germany

European Technical Customer Support:

Please visit our homepage **http://www.olympus-europa.com**
or call our TOLL FREE NUMBER* : **00800 - 67 10 83 00**
for Austria, Belgium, Denmark, Finland, France, Germany, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom
* Please note some (mobile) phone services providers do not permit access or request an additional prefix to +800 numbers.

For all European Countries not listed and in case that you can’t get connected to the above mentioned number, please make use of the following CHARGED NUMBERS: **+49 180 5 - 67 10 83** or **+49 40 - 237 73 4899**
Our Technical Customer Support is available from 9 am to 6 pm MET (Monday to Friday)