

CAMEDIA
DIGITAL CAMERA

C-7070 Wide Zoom

Advanced Manual

Detailed explanations of all the functions for getting the most out of your camera.

Basic Operation

Basic Shooting

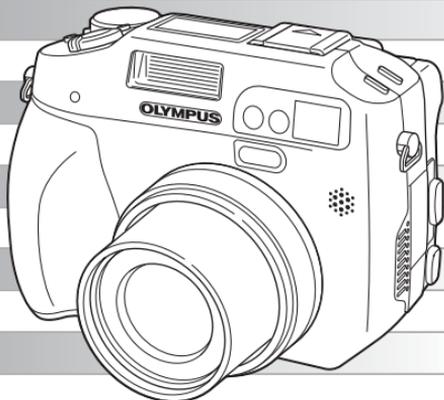
Advanced Shooting

Playing Back

Printing

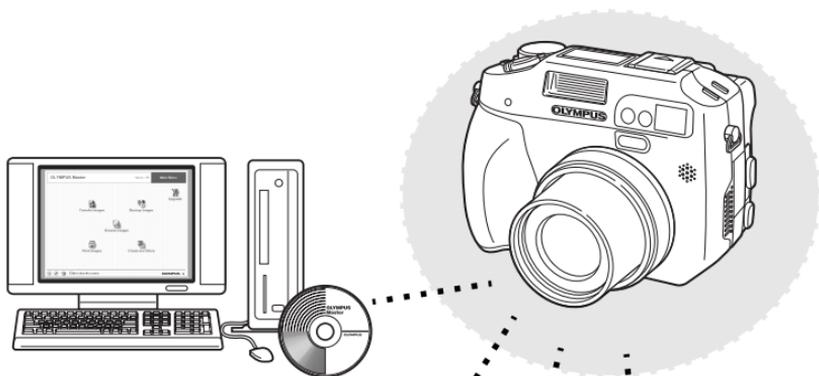
Online Pictures

Camera Settings



- 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.

How to use the camera

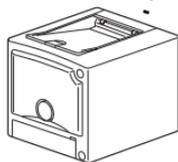


Using a computer...

Using the OLYMPUS Master software on your computer lets you enjoy editing, viewing, and printing the pictures downloaded from your camera.

Using a card...

Pictures taken with this camera are stored on card media (e.g. xD-Picture Card). By storing the relevant print reservation data with the images on the card, you can print pictures at a photo store or on a PictBridge-compatible printer.



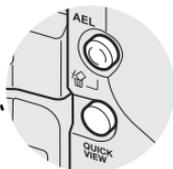
Using a printer...

With a PictBridge-compatible printer, you can print pictures directly from your camera.



Using a TV...

You can use a TV to view pictures or playback movies from your camera.



Using the direct buttons...

Direct buttons let you perform functions such as erasing or protecting pictures or setting the flash mode, making camera operation easy.



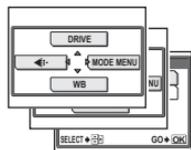
Using the mode dial...

Use the mode dial to select a shooting or playback mode. **SCENE** lets you select the optimum settings for the shooting conditions from 7 different situations.



Using the arrow pad and button...

The arrow pad and  button are for selecting and setting menu options as well as viewing pictures frame by frame.



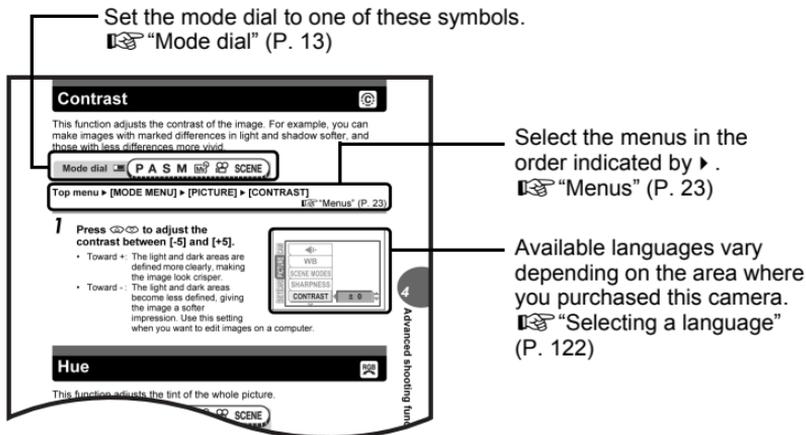
Using the menus...

Shooting and playback-related functions are set from the menus displayed on the monitor.

How to use this manual

● Indications used in this manual

A sample page is shown below to explain how to read the instructions in this manual. Look at it carefully before taking or viewing pictures. See the reference pages for further details on how to use the buttons or menus.



This sample page is only for your reference. It may differ from the actual page in this manual.

! Note

Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.

? TIPS

Useful information and hints that will help you get the most out of your camera.



Reference pages describing details or associated information.

● Basic and Advanced Manuals

The instruction manual accompanying this camera is divided into two parts: the Basic Manual and the Advanced Manual (this document).

Basic Manual This manual helps you get used to the camera. It gives you easy-to-follow explanations on how to take pictures and view them.

Advanced Manual This manual introduces you to the camera's many functions after you have mastered the basics. It will help you to use the camera's capabilities to take much more creative pictures, with more fun!

Composition of the manual

A quick guide to the camera's capabilities.

Read this part before using the camera.

Explanations of techniques from basics to advanced, giving you an understanding of all the functions related to taking pictures.

To view, edit and sort the pictures you have taken.

Settings to make your camera easier to use.

To print the pictures you have taken.

To enjoy the pictures you have taken on a computer. How to use OLYMPUS Master.

Troubleshooting.
For when you want to know the names of parts, see a list of menus, or find what you are looking for.

How to use the camera P. 2

Table of Contents P. 6

Basic operation P. 12

Tips before you start taking pictures P. 27

Basic shooting functions P. 41

Advanced shooting functions P. 56

Additional functions P. 86

Playback P. 98

Settings P. 118

Printing pictures P. 140

Connecting the camera to a computer P. 158

Appendix P. 173

Miscellaneous P. 196

1

2

3

4

5

6

7

8

9

10

11

The title page of each chapter gives a short description of the contents. Be sure to check it out.

Table of Contents

How to use this manual.....	4
Composition of the manual	5

1 Basic operation - - - - -12

Mode dial.....	13
How to set functions.....	14
Direct buttons.....	16
Using the direct buttons in shooting mode.....	16
Using the direct buttons in playback mode	21
Menus	23
About the menus.....	23
How to use the menus	25

2 Tips before you start taking pictures - - - - -27

Holding the camera.....	28
Using the monitor and viewfinder.....	29
Movement range of the monitor	29
Adjusting the viewfinder	29
When to use the monitor and viewfinder.....	30
If correct focus cannot be obtained	31
How to focus (focus lock).....	31
Subjects that are difficult to focus on	32
Record mode 	33
Still picture record modes.....	33
Movie record modes.....	34
Card capacity in number of pictures/remaining recording time ...	35
Changing the record mode.....	37
Using card media	38
Inserting and removing card media (optional).....	39
Switching cards.....	40

3 Basic shooting functions- - - - -41

Selecting a shooting mode according to the situation.....	42
Zooming in on a distant subject	44
Using the optical zoom.....	44
Using the digital zoom.....	45
Taking close-up pictures (macro/super macro/super macro MF)   	46
Flash shooting 	47
Flash intensity control 	51

Slow synchronization  SLOW	51
Selecting the flash 	52
Using the external flash (optional).....	52
Using commercially available external flashes.....	54
Using a slave flash mode.....	55

4 Advanced shooting functions - - - - -56

Program shift Ps	57
Aperture priority shooting A	57
Shutter priority shooting S	59
Manual shooting M	60
Real display  mode 	62
My Mode 	62
Focusing applications.....	63
AF mode.....	63
Fulltime AF.....	63
Oracle AF  AF.....	64
AF target	65
AF illuminator	66
Manual focus MF	66
Metering	69
ESP/Spot metering/Center-weighted metering ESP  	69
Multi-metering MULTI 	69
AE lock AEL	71
ISO sensitivity	72
Exposure compensation 	73
White balance WB	74
Auto white balance WB AUTO	75
Preset1/Preset2 white balance	75
Custom white balance.....	76
One-touch white balance 	76
White balance compensation 	78
Saving a custom white balance.....	79
Scene modes	80
Sharpness 	80
Contrast 	81
Hue 	81
Saturation 	82
Noise reduction NR	82
Histogram 	83

Frame assist.....	85
-------------------	----

5 Additional functions -----86

Recording movies 	87
Camera movement compensation 	88
Sequential shooting HI   AF  BKT	89
High speed sequential shooting/Sequential shooting/ AF sequential shooting HI   AF 	89
Auto bracketing BKT	90
Self-timer shooting 	91
Function shooting (panorama/black & white/sepia)	92
Panorama shooting	92
Black & white/sepia	93
Remote control shooting (optional) 	94
Changing the time until remote control is activated	95
Recording sound with still pictures 	96
Recording sound with movies 	97
Accessory settings (optional)	97

6 Playback -----98

Single-frame playback 	99
Close-up playback 	99
Index display 	100
Selecting the number of pictures 	101
Slideshow 	102
Picture rotation 	102
Playing back movies 	103
Editing still pictures	104
Editing raw data	104
Resizing 	106
Trimming 	106
Red-eye correction.....	108
Recording sound 	108
Editing movies.....	109
Creating an index	110
Editing a movie.....	111
Playback on a TV	112
Video output selection.....	113
Copying pictures	114
Protecting pictures 	115

Erasing pictures  	116
Single-frame erase 	116
All-frame erase 	116
Formatting 	117

7 Settings - - - - - 118

Reset	119
All reset	120
Exposure steps	122
Selecting a language  	122
Setting the date and time 	123
My Mode setup 	124
Sound	126
Button operation beep	126
Shutter sound	127
Beep 	128
Playback volume	128
Power on/off setup	129
Screen setup	129
Monitor brightness adjustment 	130
Rec view	131
File name	131
Pixel mapping	132
Measurement units (m/ft) m/ft	133
Dual control panel	133
USB	134
Shortcut	134
Setting the shortcut menus	135
Using the shortcut menus	136
Custom button 	136
Setting the custom button	137
Using the custom button	138
Dial	138
My Mode/SCENE selection screen	139

8 Printing pictures - - - - - 140

Direct printing (PictBridge)	141
Using the direct printing function	141
Connecting the camera to a printer	142
Printing pictures	143

Easy printing	143
Printing by selecting a print mode	145
Trimming 	148
Exiting direct printing	149
If an error code is displayed	150
Print settings (DPOF) 	151
How to make print reservations	151
All-frame reservation/Single-frame reservation  	152
Trimming 	155
Resetting print reservation data 	156

9 Connecting the camera to a computer - - - - 158

Flow	159
Using OLYMPUS Master	160
What is OLYMPUS Master?	160
Installing OLYMPUS Master	161
Connecting the camera to a computer	164
Starting up OLYMPUS Master	165
Displaying camera images on a computer	167
Downloading and saving images	167
Viewing still pictures and movies	169
Printing pictures	170
To download and save images to a computer without using OLYMPUS Master	172

10 Appendix - - - - - 173

Troubleshooting	174
Error codes	174
Troubleshooting	176
Camera care	183
Accessories (optional)	184
AC adapter (optional)	184
Power battery holder	185
Precautions for using Microdrive	185
Using commercially available external flashes	186
Safety Precautions	187
Handling the Camera	187
Battery handling precautions	189
Card handling precautions	191
LCD Monitor	192

Glossary of terms	193
-------------------------	-----

11 Miscellaneous - - - - - 196

Menu list.....	197
List of factory default settings.....	204
Modes and shooting functions	207
Names of parts.....	210
Camera	210
Control panel/dual control panel indications	213
Monitor indications	215
Index	218

Basic operation

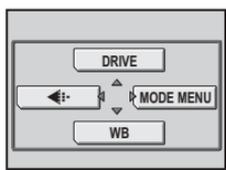
Don't you sometimes feel that advanced shooting and editing functions are only for professional photographers?

With their experience and skill, they can make all kinds of fine adjustments to achieve a variety of effects.

Now you can achieve such effects simply by pressing the buttons on your digital camera.

You can use the advanced functions available on your camera by setting the menu items to adjust the amount of light passing through the aperture or alter the focusing range.

Just display a menu on the monitor and use the buttons to choose a setting. Familiarize yourself with the buttons and menus before reading the explanations of the various functions.



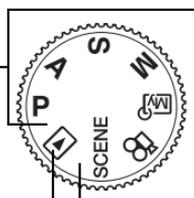
Movies



Sequential shooting

Mode dial

This camera features a shooting mode and a playback mode. The modes are selected using the mode dial. Shooting mode is divided into a further 7 modes. Select the mode you want, then turn the power switch to turn the camera on.



Shooting mode

Set the mode dial to one of these positions to take pictures or movies.

Playback mode

Set the mode dial to this position to view pictures or movies.

● About the mode dial

Shooting mode	P	The camera automatically sets the optimum aperture value and shutter speed for the brightness of the subject. Using the program shift function allows you to change the combination of the aperture value and shutter speed while maintaining the exposure. P. 57
	A	This function allows you to set the aperture manually. The camera sets the shutter speed automatically. P. 57
	S	This function allows you to set the shutter speed manually. The camera sets the aperture automatically. P. 59
	M	This function allows you to set the aperture and shutter speed manually. P. 60
		This function allows you to set your own shooting parameters and register them as your original mode. P. 62
		This function allows you to record movies with sound. P. 87
	SCENE	This function allows you to select from 7 situation-related modes set to the shooting conditions. P. 42
Playback mode		This function allows you to play back still pictures or movies. You can also play back sound. P. 99

? TIPS

- Direct button functions and menu contents vary depending on the position of the mode dial. “Direct buttons” (P. 16), “Menus” (P. 23), “Menu list” (P. 197)
- You can change the mode before and after turning the camera on.

How to set functions

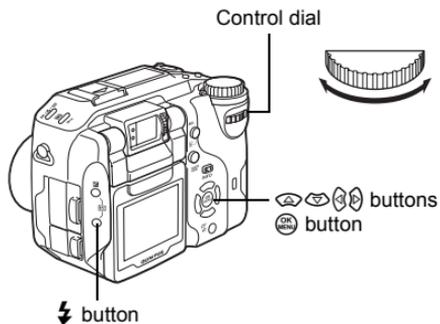
The direct buttons and menus are used to set and operate the many functions available on this camera.

All the functions set with direct buttons can be set using menus.  "Direct buttons" (P. 16), "Menus" (P. 23)

1

Basic operation

Ex: To make flash settings



Using the menus

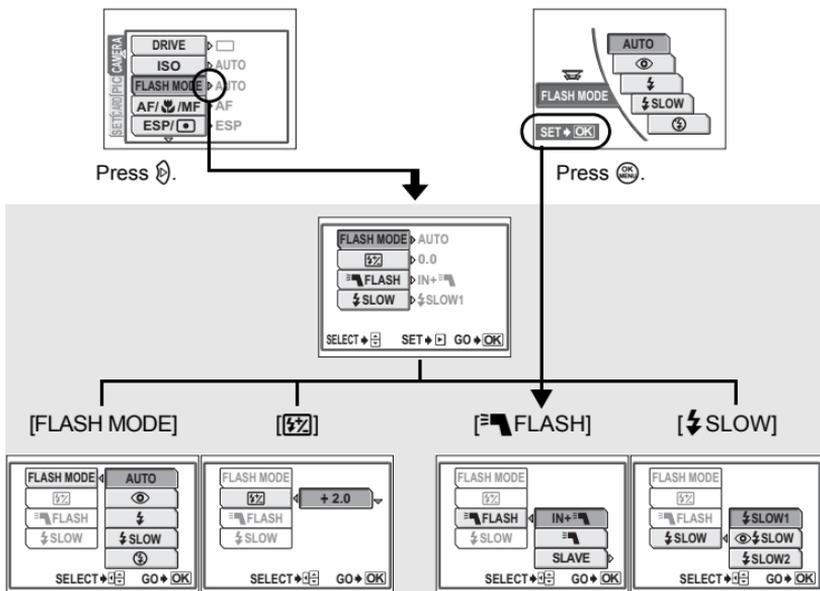
Press MENU to display the top menu, then select [MODE MENU], [CAMERA], and [FLASH MODE] in order.

- Use LEFT , RIGHT , UP , DOWN , and MENU to make flash-related settings.

Using the direct buttons

Press the FLASH button, and turn the control dial.

- The setting screen is displayed on the monitor.
- Select the flash mode, and press the FLASH button. The flash mode setting is made, and the display returns to the shooting screen.
- To make further settings, follow the operation guide at the bottom of the screen.



The same setting screen is displayed using the direct button or the mode menu.

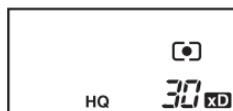
MENU "Menus" (P. 23)

? TIPS

- The flash intensity control (INT) can be adjusted directly by pressing the INT and FLASH buttons simultaneously, and turning the control dial.

To set functions with the monitor closed

- Use the direct buttons (excluding the MENU button) to make settings. Turn the control dial to view your selected settings on the control panel.



Direct buttons

The direct buttons have different functions in shooting mode and in playback mode.

Pressing the direct buttons, and turning the control dial allows you to select menu options or change the settings of different functions. Certain settings require the direct button to be pressed repeatedly.

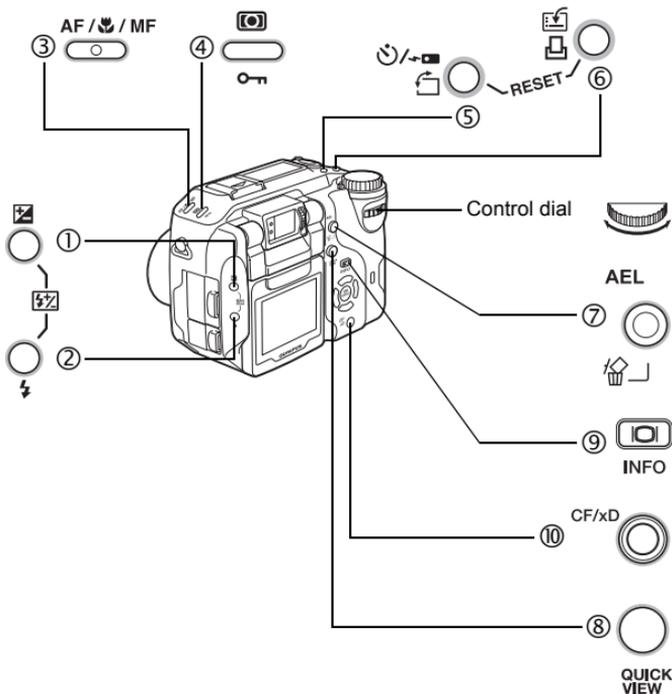
1

Basic operation

? TIPS

- Each menu is displayed when the respective direct button is pressed. Press the button again to return to the shooting screen.
- Direct button functions can be changed when making settings in combination with the control dial.  "Dial" (P. 138)

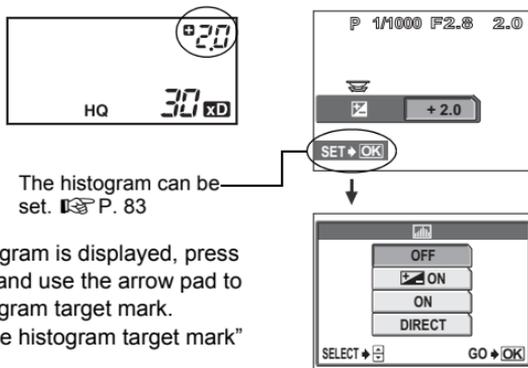
Using the direct buttons in shooting mode



①  (Exposure compensation) button P. 73

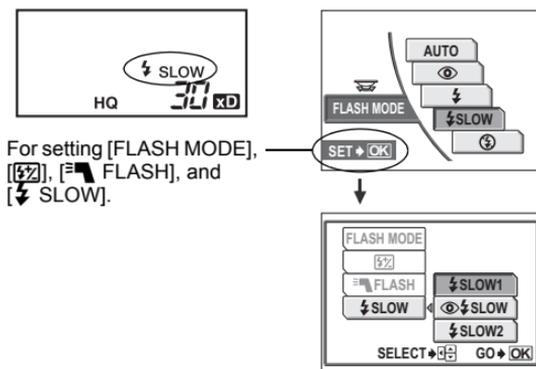
Changes the exposure compensation value.

Press the  button to display the following screen. Turn the control dial to make settings.

②  (Flash mode) button P. 47

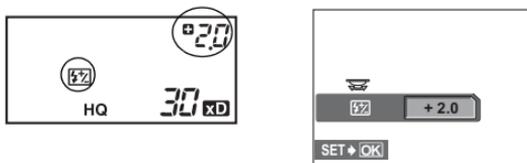
Select the flash mode from [AUTO], [], [], [ SLOW], and [].

Press the  button to display the following screen. Turn the control dial to make settings.

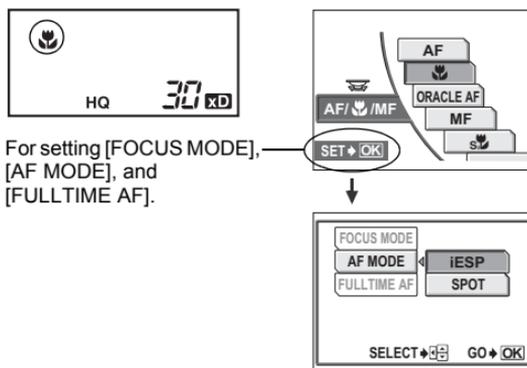


① + ②  (Flash intensity control) P. 51

Adjusts the amount of light emitted by the flash.
Press the  and  buttons simultaneously to display the following screen. Turn the control dial to make settings.

③ **AF//MF** (AF/Macro/MF) button P. 46, 63, 66

Select the focus mode from [AF] (auto focus), [], [ORACLE AF], [MF] (manual focus), [] (super macro), and [MF] (super macro MF). Press the **AF//MF** button to display the following screen. Turn the control dial to make settings.

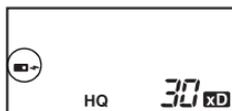
④  (Metering) button P. 69

Select the metering mode from [ESP] (no indication), [SPOT] (), [MULTI METERING] (MULTI ), and [] (center-weighted metering). Press the  button to display the following screen. Turn the control dial to make settings.

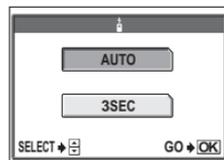
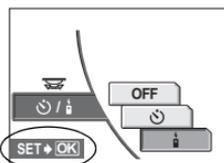


⑤  (Self-timer/remote control) button  P. 91, 94

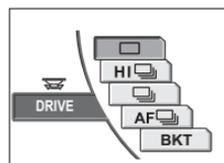
Activates the self-timer () or remote control function (). Press the  button to display the following screen. Turn the control dial to make settings.



When the remote control is selected, you can select the operating time.

⑥  (Custom) button  P. 136

You can make settings for the function registered on the custom button.



[DRIVE] registered to the custom button

⑤+⑥ RESET (Camera reset)  P. 119

Press these buttons simultaneously for more than 3 seconds to reset camera settings.

⑦ **AEL** (AE lock) button  P. 71

Locks the exposure. The lock function is alternately activated and canceled each time you press the button.



⑧ QUICK VIEW button

Pressing the **QUICK VIEW** button displays the last picture taken on the monitor. All the functions in normal playback mode are available.

☞ “6 Playback” (P. 98)

To return to shooting mode for taking the next picture, press the **QUICK VIEW** button or press the shutter button halfway.

⑨ (INFO) button

When you turn on the camera in shooting mode, the monitor turns on and shooting information is displayed. Each time you press (INFO) to change the information display in the following order.

Detailed shooting information is displayed.^{*1}

☞ “Monitor indications” (P. 215)

The ready-to-shoot screen is displayed.^{*1}

Only the AF target mark is displayed.



^{*1} The frame is displayed when [FRAME ASSIST] is set to [ON]. ☞ “Frame assist” (P. 85)

^{*2} The histogram screen is displayed when [HISTOGRAM] is set to [ON]. ☞ “Histogram” (P. 83)

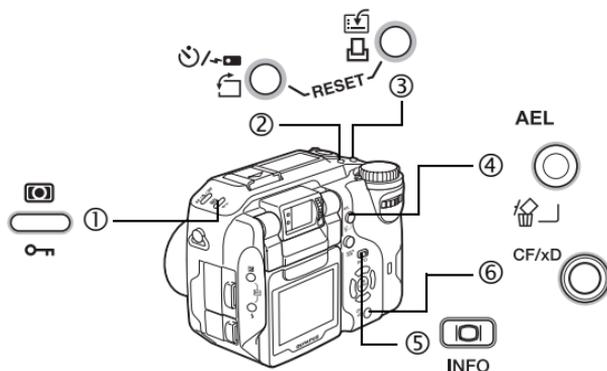
^{*3} The dual control panel is displayed when [DUAL CONTROL PANEL] is set to [ON]. ☞ “Dual control panel” (P. 133)

⑩ CF/xD (Card) button

☞ P. 40

Selects the card to be used when there are 2 card types in the camera.

Using the direct buttons in playback mode



- ① **Protect** button  P. 115

Press the **Protect** button after selecting a picture to set the protect function.

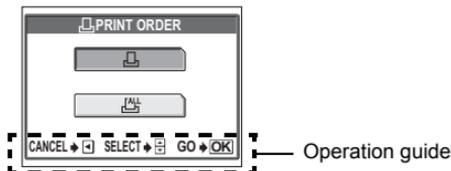
- ② **Rotation** button  P. 102

Press the **Rotation** button after selecting a still picture to rotate it in the following order: 90° counterclockwise, 90° clockwise, and back to the original orientation.



- ③ **Print reservation** button  P. 151

Press the **Print reservation** button to display the following screen. This function stores print reservation data on the card. Follow the operation guide at the bottom of the screen to make settings.



② + ③ RESET (Camera reset)

P. 119

Press these buttons simultaneously for more than 3 seconds to reset camera settings.

④ Erase button

P. 116

Press the Erase button after selecting a picture to display the following screen. This function erases the image. Follow the operation guide at the bottom of the screen to make settings.



⑤ (INFO) button

Press (INFO) to change the information displayed in the following order.

The playback screen is displayed.



The histogram is displayed directly on the picture.

Detailed camera information is displayed. "Monitor indications" (P. 215)



The histogram is displayed.

⑥ CF/xD (Card) button

P. 40

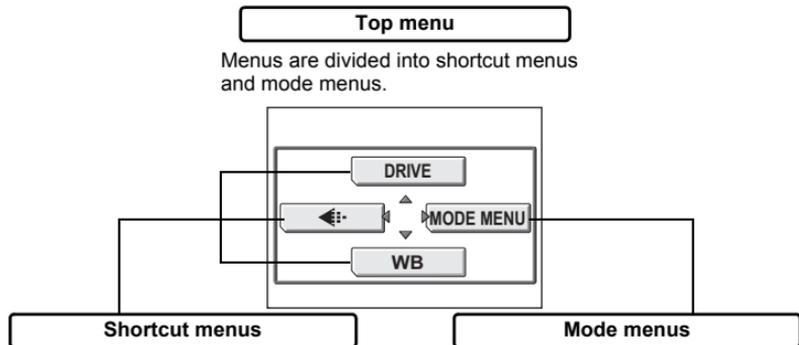
Selects the card to be used when there are 2 card types in the camera.

Menus

Press  to display the top menu on the monitor.

About the menus

The menu items that can be used differ depending on the mode.



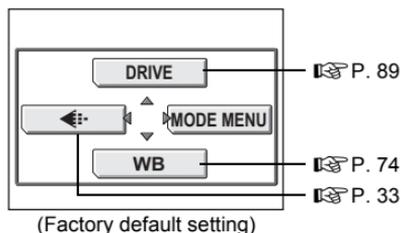
You can select menu items that are normally accessed from the mode menu. Some shortcut menus are for making on/off settings.

Settings are categorized by function into tabs.

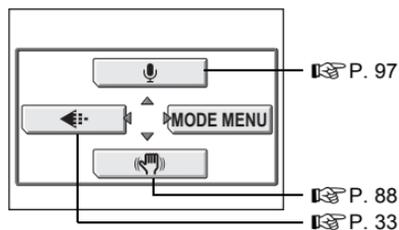
Shortcut menus

● Shooting modes

P A S M  **SCENE** modes
(For still pictures)

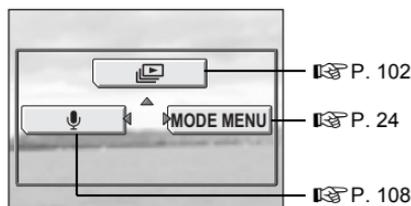


 mode
(For movies)

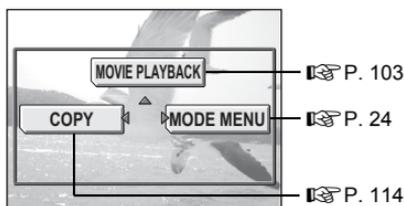


● Playback mode

For still pictures

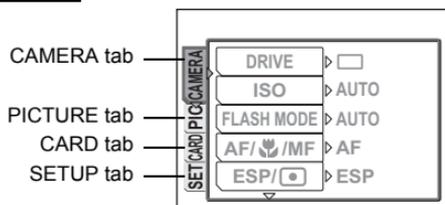


For movies

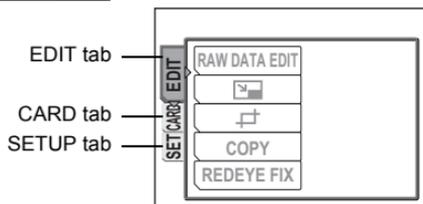


? TIPS

- The functions registered in the shortcut menu can also be accessed from the mode menu. You can change shortcut menus in any mode except  and  modes.  “Shortcut” (P. 134)

Mode menu**● Shooting modes**

CAMERA tab	For setting shooting-related functions.
PICTURE tab	For setting picture-related functions, such as record mode and white balance.
CARD tab	For formatting cards.
SETUP tab	For making basic camera settings and settings that make the camera easier to use.

● Playback mode ()

EDIT tab	For editing saved pictures.
CARD tab	For formatting cards and erasing all image data.
SETUP tab	For making basic camera settings and settings that make the camera easier to use.

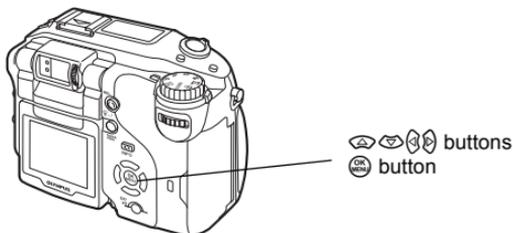
? TIPS

- In  mode, the mode menus for shooting and playback modes differ. For details, see “Menu list” (P. 197).
- For a list of mode menu items for shooting and playback modes, see “Menu list” (P. 197).

How to use the menus

Use the arrow pad and  to set menu items. Follow the operation guide and arrows on the screen to select and make settings. This section explains how to use the menus.

Ex: To set **[BKT]** (Auto bracketing)



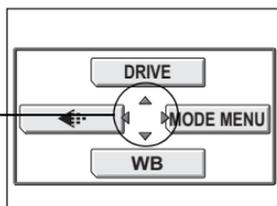
1 Press  in shooting mode.

- The top menu is displayed.

2 Press  to select **[MODE MENU]**.

This refers to the arrow pad (   ).

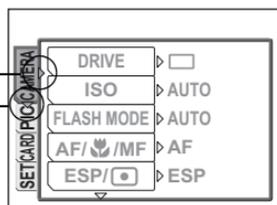
Top menu



3 Press   to select the **[CAMERA]** tab, and press .

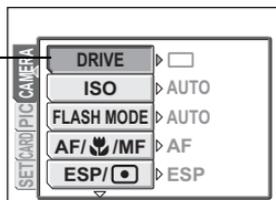
- Refer to the arrows on the screen to select and make settings with the arrow pad.

This refers to the arrow pad ( ).



4 Press to select [DRIVE], and press .

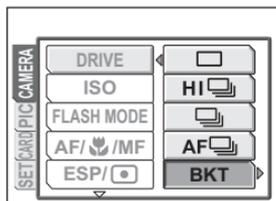
- Refer to the arrows on the screen to select and make settings with the arrow pad.
- Unavailable settings cannot be selected.



The selected item appears indented.

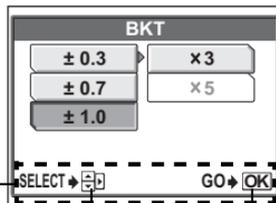
5 Press to select [BKT], and press .

- Refer to the arrows on the screen to select and make settings with the arrow pad.



6 Press to select the exposure differential from [± 0.3], [± 0.7], and [± 1.0], then press . Press to select the number of shots from [$\times 3$] and [$\times 5$], then press .

- Follow the operation guide at the bottom of the screen to select and make settings using the arrow pad.



Operation guide

Press   to select a setting.

Press  to move through settings.

Press  to finalize the setting.

? TIPS

- In this manual, Steps 1 to 5 of how to use the menus are expressed as follows:
Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DRIVE] ▶ [BKT]

Holding the camera

Sometimes when you look at a picture you have taken, the contours of the subject are blurred. This is often caused by movement of the camera at the precise moment that the shutter button is pressed.



Picture where subject is not clearly defined

To prevent the camera from moving, hold the camera firmly with both hands while keeping your elbows at your sides. When taking pictures with the camera in the vertical position, hold the camera so that the flash is positioned higher than the lens. Keep your fingers and the strap away from the lens and flash.

Horizontal grip



Vertical grip



Top view



Using the monitor and viewfinder

Movement range of the monitor

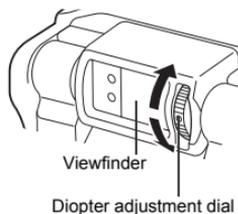
- The range of monitor movement is shown on the right. By turning the monitor toward the lens, you can take pictures of yourself with the monitor.
- Move the monitor slowly within the permitted range.



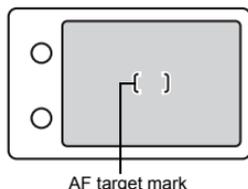
Adjusting the viewfinder

You can adjust the viewfinder to match your eyesight (visual acuity).

- 1** While looking through the viewfinder, slowly turn the diopter adjustment dial.



- 2** Turn the diopter adjustment dial until the AF target mark can be seen clearly.



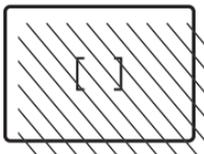
When to use the monitor and viewfinder

You can take pictures using either the monitor or the viewfinder. Use the one that is most apt for the situation.

To turn the monitor on or off, press .  "Direct buttons" (P. 16)

	Monitor	Viewfinder
Advantages	You can check the picture area that the camera actually records.	Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.
Disadvantages	Camera movement occurs easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.	When close to a subject, the image in the viewfinder differs slightly from the picture that the camera actually records.
Tips	Use the monitor when you need to know the exact area the camera records, or to take a close-up of a person or flower (macro shooting).	Use the viewfinder for general snapshots, landscape pictures and other casual shots.

Viewfinder



- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded (the shaded area in the illustration on the left) differs slightly from the image in the viewfinder.

? TIPS

When the monitor turns off automatically

→ If the camera is not used for over 3 minutes, the monitor turns off automatically. Press the shutter button or zoom lever to turn the monitor on.

To adjust the brightness of the monitor

→ Adjust the brightness with the  settings.  "Monitor brightness adjustment" (P. 130)

When the monitor is hard to see

→ Bright light, such as direct sunlight, may cause vertical lines (smears) to appear on the image in the monitor. This does not affect recorded pictures.

To check the area the camera is focusing on

→ If you press  while pressing the shutter button halfway, the area you are focusing on is enlarged. Pressing  again returns the size to normal. This function is not available with digital zoom.  "Using the digital zoom" (P. 45)



If correct focus cannot be obtained

The camera automatically detects the focus target in the frame. The level of contrast is one of the criteria it uses to detect the subject. The camera may fail to determine subjects with lower contrast than the surroundings or with an area of extremely strong contrast in the frame. If this happens, the simplest solution is to use the focus lock.

How to focus (focus lock)

Mode dial

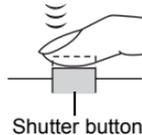
P A S M My SCENE

1 Position the AF target mark on the subject you want to focus on.

- When shooting a hard-to-focus or fast-moving subject, focus the camera on an object about the same distance away as the subject.



AF target mark



2 Press the shutter button halfway until the green lamp lights.

- When the focus and exposure are locked, the green lamp lights.
- When using the monitor, the AF target mark moves to the focus position.
- When the green lamp blinks, the focus and exposure are not locked. Release your finger from the shutter button, re-position the AF target mark on the subject and press the shutter button halfway again.

3 Keeping the shutter button pressed halfway, recompose your shot.

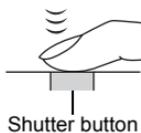
Green lamp



2

Tips before you start taking pictures

4 Press the shutter button fully.



? TIPS

When the frame in which you focus on a subject is different from the frame in which you lock the exposure

☞ "AE lock" (P. 71)

To focus on the subject in the center of the frame

☞ "AF mode" (P. 63)

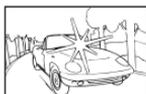
Subjects that are difficult to focus on

Under certain types of conditions, the auto focus may not work properly.

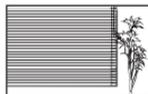
The green lamp blinks.
The subject cannot be brought into focus.



Subject with low contrast



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

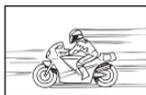


Subject without vertical lines

The green lamp lights, but the subject cannot be brought into focus.



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, then return the camera to the horizontal position while keeping the button pressed halfway and take the picture.

If the subject still cannot be focused on, use the manual focus. ☞ "Manual focus" (P. 66)

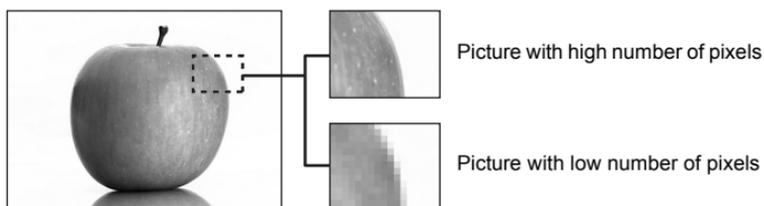


You can select a record mode in which to take pictures or shoot movies. Select the best record mode for your purpose (printing, editing on a computer, website editing, etc.). For information on the image sizes for each record mode and the memory capacity of the card, see the table on P. 35.

Still picture record modes

Record mode depicts the image size and compression rate of pictures you wish to record.

Pictures are made from thousands of dots (pixels). If a picture with relatively few pixels is enlarged, it looks like a mosaic. A picture with many pixels is denser and clearer, but requires a larger file size (data size), decreasing the number of pictures that can be saved on a card. Increasing the compression rate reduces the file size, but makes the pictures appear grainy.



2

Tips before you start taking pictures

● Normal image modes

Application	Compression		Uncompressed	Low compression	High compression
	Image size				
Select according to print size	3072 × 2304		TIFF	SHQ	HQ
	2592 × 1944			SQ1 HIGH	SQ1 NORMAL
	2288 × 1712				
	2048 × 1536				
	1600 × 1200				
	1280 × 960				
1024 × 768		SQ2 HIGH	SQ2 NORMAL		
For small-sized prints and websites	640 × 480				

Image size becomes larger ↑

← Image becomes clearer

Image size

The number of pixels (horizontal × vertical) used when saving an image. Save your pictures in a large image size to get clearer prints.

Compression

In record modes other than TIFF, image data are compressed. The higher the compression, the less clear the image will be.

● Special record modes

Record mode	Features	Image size
RAW	Raw uncompressed data	3072 × 2304
3:2 (SHQ, HQ)	This is useful for ordering prints from a photo store.	3072 × 2048

Raw data

This is unprocessed data which has not been subjected to color conversion or white balance, sharpness and contrast adjustment. Use the OLYMPUS Master software to display the picture data on a computer. You can also view the data with Photoshop software by installing the Plug-in available from the Olympus website. Raw data cannot be displayed using ordinary software, and print reservations cannot be made. Pictures taken with the record mode set to raw data can be edited with this camera.

☞ “Editing raw data” (P. 104)

3:2

The image aspect ratio is normally 4:3. If the aspect ratio is changed to 3:2, the image can be printed at a photo store without losing the image borders.



Monitor display when
3:2 is set

Movie record modes**● SHQ, HQ, SQ1, SQ2**

Movies are recorded in Motion-JPEG format.

Card capacity in number of pictures/remaining recording time

The number of storable still pictures/remaining recording time is displayed on the control panel and the monitor when a card is inserted in the camera.

Still pictures

Record mode	Image size		Compression	File format	Card capacity in number of pictures	
					Using a 32 MB card	
					With sound	Without sound
RAW	3072 × 2304		Uncompressed	ORF	3	3
TIFF	3072 × 2304		Uncompressed	TIFF	1	1
	2592 × 1944				2	2
	2288 × 1712				2	2
	2048 × 1536				3	3
	1600 × 1200				5	5
	1280 × 960				8	8
	1024 × 768				13	13
SHQ	3072 × 2304		Low compression	JPEG	6	6
	3:2	3072 × 2048			6	6
HQ	3072 × 2304		High compression		17	18
	3:2	3072 × 2048			20	20
SQ1	2592 × 1944	HIGH	*		8	8
		NORMAL			24	25
	2288 × 1712	HIGH			10	11
		NORMAL			31	32
	2048 × 1536	HIGH			13	13
		NORMAL			39	40
1600 × 1200	HIGH	22		22		
	NORMAL	60		64		
SQ2	1280 × 960	HIGH		33	34	
		NORMAL		90	99	
	1024 × 768	HIGH		51	53	
		NORMAL		132	153	
	640 × 480	HIGH	117	132		
		NORMAL	248	331		

*HIGH = low compression / NORMAL = high compression

Movies

Record mode	Image size	File format	Remaining recording time (sec.)	
			Using a 32 MB card	
			With sound	Without sound
SHQ	640 × 480 (30 frames/sec.)	Motion-JPEG	17 sec.	17 sec.
HQ	640 × 480 (15 frames/sec.)		34 sec.	35 sec.
SQ1	320 × 240 (30 frames/sec.)		47 sec.	48 sec.
SQ2	320 × 240 (15 frames/sec.)		93 sec.	96 sec.

? TIPS

- When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken with an image size of 1,024 × 768 fills the screen if you set the picture to 1× when the monitor setting is 1,024 × 768. However, if the monitor setting is over 1,024 × 768 (such as 1,280 × 1,024), the picture only takes up part of the screen.



Number of storable still pictures



Remaining recording time

! Note

- The number of storable still pictures and movie recording times listed in the table are approximate.
- The number of storable still pictures may change according to the subject or factors like whether print reservations have been made or not. In certain instances, the number of remaining pictures does not change even when you take pictures or stored images are erased.

Changing the record mode

Mode dial  P A S M My SCENE

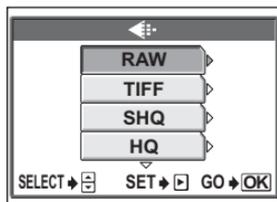
Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [◀⏪]

 "Menus" (P. 23)

- You can also select [◀⏪] from the shortcut menu.

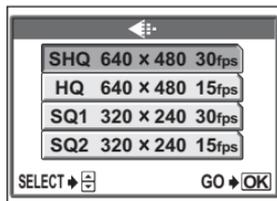
1 Select a record mode from [RAW], [TIFF], [SHQ], [HQ], [SQ1] and [SQ2].

- If you select [RAW], see "●JPEG copy" (P. 38).



For still pictures

For movies, select a record mode from [SHQ], [HQ], [SQ1] and [SQ2].  Go to Step 3

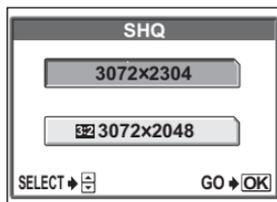


For movies

2 Select the image size of the record mode.

If you selected [SQ1] or [SQ2], press  after choosing the image size, then select [HIGH] or [NORMAL].

3 Press .



2

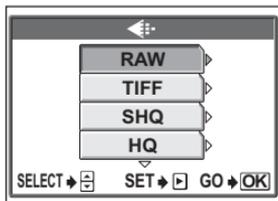
Tips before you start taking pictures

● JPEG copy

Pictures taken in the raw data format can be stored in JPEG format at the same time as they are recorded in raw data. To record pictures in JPEG format you can select [SHQ], [HQ], [SQ1] or [SQ2] for the record mode, but you cannot select the image size. Pictures are recorded in the size currently set for each record mode.

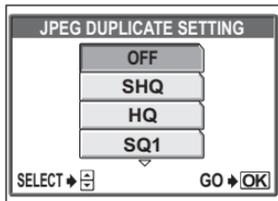
2 Tips before you start taking pictures

1 In the [] screen, select [RAW], and press .



2 Select a JPEG duplicate setting from [OFF], [SHQ], [HQ], [SQ1] and [SQ2].

- Select [OFF] to save raw data only.



3 Press .

Using card media

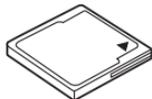
This camera is equipped with 2 card slots. You can use an xD-Picture Card simultaneously with a CompactFlash or Microdrive.

xD-Picture Card

16 to 512 MB cards can be used.

CompactFlash (CF) (optional)

A CompactFlash is a large-capacity solid state flash memory card. You can use commercially available cards.



Microdrive (optional)

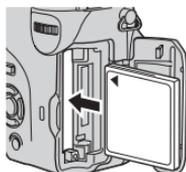
You can use Microdrives that support CF+Type II (CompactFlash expansion standard). Microdrive is a compact high capacity hard disk drive. 340 MB Microdrive cannot be used. Be sure to read the "Precautions for using Microdrive" (P. 185).

Inserting and removing card media (optional)

1 Confirm that the power switch is aligned with OFF, and open the card cover.

2 Insert the CompactFlash or Microdrive.

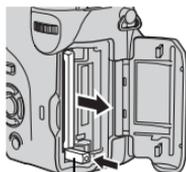
- Hold the card straight and insert it correctly into the front slot, as shown.



3 Close the card cover securely until it clicks.

Removing the CompactFlash/Microdrive

- Press the eject button gently and allow it to pop out, then press it again all the way in. The card will be ejected a short way to enable you to pull it out.



Eject button

! Note

- Do not push the card in with a pen or similar hard or pointed object.
- Never open the card cover, or remove the card or the battery while the camera is turned on. Doing so could destroy the data stored on the card. Once destroyed, data cannot be restored.

2

Tips before you start taking pictures

Switching cards

The xD-Picture Card can be used simultaneously with CompactFlash or Microdrive. The card currently in use is displayed on the control panel or monitor. When there are 2 card types in the camera, select the type you want to use.

2

Tips before you start taking pictures

1 Press the CF/xD (card) button repeatedly to select the card you want to use.

- The indication on the control panel alternates between the two slots.



xD : xD-Picture Card

CF : CompactFlash
or Microdrive

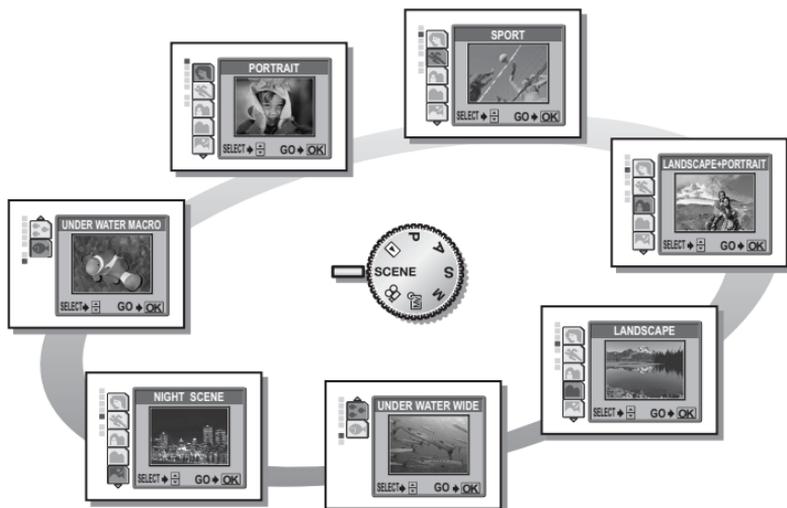
Basic shooting functions

3

A professional photographer adjusts the exposure to the optimal setting, chooses the best focusing method and even selects the type of film according to the subject.

With a digital camera, you don't need to learn how to make difficult settings. Your camera will adjust the settings for you! All you have to do is choose a scene mode according to whether you are taking a landscape, a night scene, a portrait-style image or whatever, and the camera will set the best exposure and white balance.

There's nothing to it – just press the shutter button!



Selecting a shooting mode according to the situation

When you select a scene mode according to the situation or shooting conditions, the camera automatically selects the optimal settings.

● SCENE mode

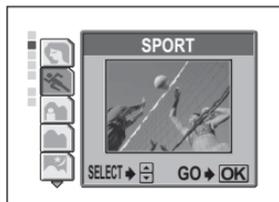
Portrait

Suitable for taking a portrait-style shot of a person. This mode features an in-focus subject against a blurred background.



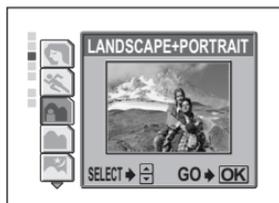
Sports

Suitable for capturing fast-moving action (such as sports) without blur. Even fast-moving subjects appear to be stationary.



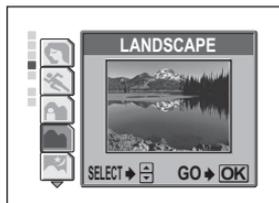
Landscape+Portrait

Suitable for taking pictures of both your subject and the landscape. The picture is taken with the background as well as the subject in the foreground in focus. You can take pictures of your subject against a beautiful sky or landscape.



Landscape

Suitable for taking pictures of landscapes and other outdoor scenes. Both the foreground and the background are in focus. Since blues and greens are vividly reproduced in this mode, it is excellent for shooting natural scenery.



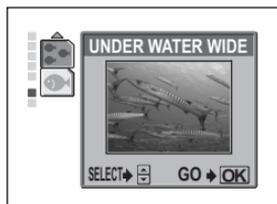
Night Scene

Suitable for shooting pictures in the evening or at night. The camera sets a slower shutter speed than is used in normal shooting. For example, if you take a picture of a street at night in **P** mode, the lack of brightness will result in a dark picture with only dots of light. In the Night Scene shooting mode, the true appearance of the street is captured. Since the shutter speed is slow, make sure that you stabilize the camera by using a tripod.



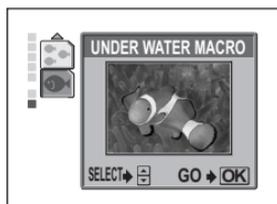
Underwater Wide

Suitable for taking pictures of underwater scenery that spans a wide area. This mode vibrantly reproduces the blue background. Use the optional underwater housing when selecting this setting.
 “Accessory settings (optional)” (P. 97)



Underwater Macro

Set this mode to take close-ups underwater. It is suitable for taking pictures of fish and marine life at close range. The natural colors found underwater are accurately reproduced. Additionally, reds can be accentuated by using the flash. Use the optional underwater housing when selecting this setting.
 “Accessory settings (optional)” (P. 97)



Mode dial  **SCENE**

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [SCENE] ▶  /  /  /  /  /  /  /  /  /  /  /  / /

Zooming in on a distant subject

You can zoom in on your subject using the optical zoom and digital zoom. With the optical zoom, the image is enlarged by the CCD when the lens magnification is changed, and the image is formed by all the CCD pixels. With the digital zoom, the area at the center of the image captured by the CCD is cropped and enlarged. When you zoom in on a subject, you are essentially taking a small area of the picture and making it bigger. Therefore, the greater the magnification with the digital zoom, the grainier the resulting picture will be. The following zoom magnifications are available on this camera.

Optical zoom	4× (equivalent to 27 mm to 110 mm on a 35mm camera)
Digital zoom	5×
Optical zoom + digital zoom	Max. 20×

Note that camera movement is likely to occur at higher magnifications.

Using the optical zoom

Mode dial  P A S M   SCENE

1 Push or pull the zoom lever.

Zoom lever



Zoom out:
Push the zoom lever toward W.



Zoom in:
Pull the zoom lever toward T.



Note

- You can use the optical zoom while recording movies in  mode by setting [Z] to [OFF].
-  “Recording sound with movies” (P. 97)
- In  mode, the maximum magnification possible for digital zoom is 3 \times .

Using the digital zoom

Mode dial



Top menu \blacktriangleright [MODE MENU] \blacktriangleright [CAMERA] \blacktriangleright [DIGITAL ZOOM] \blacktriangleright [ON] / [OFF]
 “Menus” (P. 23)

1 Pull the zoom lever toward T.

- The white area of the zoom indicator indicates the optical zoom. If the [DIGITAL ZOOM] is set to [ON], a red area is displayed on the zoom indicator. When you reach the limit of the optical zoom, the digital zoom is enabled.
- The [DIGITAL ZOOM] does not function when the monitor is turned off.



The cursor moves up and down the zoom indicator according to the zoom magnification. The cursor turns orange when inside the digital zoom area.

Taking close-up pictures (macro/super macro/super macro MF)



Focusing is usually slow when you get close to a subject (20 cm to 80 cm/7.9" to 31.5"). However, in macro mode focusing is performed quickly.

- When the optical zoom lever is at the maximum wide position and you are as close as 20 cm/7.9" to your subject, you can fill the entire frame with a 9.0 × 6.6 cm (3.5" × 2.6") subject.
- This mode lets you shoot from as close as 3 cm/1.2" to your subject. Subjects measuring approximately 2.1 × 2.8 cm (0.8" × 1.1") can be captured on the monitor. In the [s with flower icon] mode, normal shooting is also possible, but the position of the zoom is fixed automatically and cannot be changed.
- When taking pictures close to the subject, shadows may become noticeable, and the auto focus may not be able to maintain correct focus. Set the camera to super macro MF and use manual focus.



Mode dial



- 1** Press the AF//MF button, and turn the control dial. Select [, [s with flower icon/], or [s with flower icon and MF icon/], and press the AF//MF button.

"Direct buttons" (P. 16)

- When the camera is set to [s with flower icon and MF icon/], the distance indicator for the manual focus and the subject are displayed on the monitor. Press to adjust the focus, then press to lock. The MF icon is displayed red.

Note

- If you are close to a subject, the picture in the viewfinder is different from the area that the camera actually records. For macro mode shooting, use the monitor.
- If you use the flash in macro shooting, shadows may be noticeable and the correct exposure may not be achieved.
- During super macro shooting, the built-in flash is not available. You can use an external flash, but vignetting may occur. Check the recorded image on the monitor.



Select the flash mode best suited to the light conditions and the effect you want to achieve. You can also adjust the amount of light emitted using the flash intensity control.

Flash working range

W (max.): Approx. 0.8 m to 3.7 m (2.6 ft. to 12.1 ft.)

T (max.): Approx. 0.8 m to 2.2 m (2.6 ft. to 7.2 ft.)

Auto-flash (No indication)

The flash fires automatically in low light or backlight conditions.

Red-eye reduction flash (👁)

The light from the flash may make the subject's eyes appear red in the picture. The red-eye reduction flash mode reduces this phenomenon by emitting pre-flashes before firing the regular flash.



The subject's eyes appear red.

! Note

- After the pre-flashes, it takes about 1 second before the shutter is released. Hold the camera firmly to avoid camera movement.
- Effectiveness may be limited if the subject is not looking directly at the pre-flashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.

Fill-in flash (⚡)

The flash fires regardless of the available light. This mode is useful for eliminating shadows on the subject's face (such as shadows from tree leaves), in a backlight situation, or for correcting the color shift produced by artificial lighting (especially fluorescent light).



! Note

- The fill-in flash may not have the desired effect under excessively bright light.

Flash off (🚫)

The flash does not fire even in low light conditions. Use this mode in situations where flash photography is not desired or is prohibited. You can also use this mode when shooting landscapes, sunsets, and other subjects outside the range of the flash.

! Note

- Since a slow shutter speed is automatically selected in low light situations when in the flash off mode, the use of a tripod is recommended to prevent your pictures from being blurred by camera movement.

Slow synchronization (⚡ SLOW1 / ⚡ SLOW2 / 👁 ⚡ SLOW)

The slow synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a night scene background, fast shutter speeds can make the background too dark. Slow synchronization flash allows both a slow shutter speed for the background and a flash for the subject. Since the shutter speed is slow, make sure you stabilize the camera by using a tripod, otherwise camera movement may cause the picture to be blurred. The factory default setting is [⚡ SLOW1]. You can change the setting.

🔍 “Slow synchronization” (P. 51)



1st curtain (front curtain) ⚡ SLOW1

Usually, regardless of the shutter speed, the flash fires right after the shutter fully opens. This is called 1st curtain. Unless you change it, this is how the flash always fires.

2nd curtain (rear curtain) ⚡ SLOW2

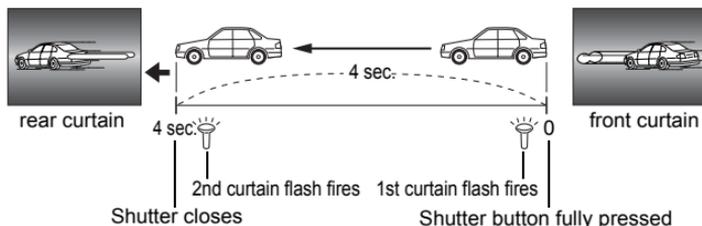
With 2nd curtain, the flash fires just before the shutter closes. Changing the flash timing can create interesting effects in your picture, such as expressing the movement of a car by showing the tail-lights streaming backwards. The slower the shutter speed, the better the effects turn out.

The slowest possible shutter speed depends on the shooting mode:

M mode : 15 sec.

P, A, S, Mv mode : 4 sec.

When the shutter speed is set to 4 sec.

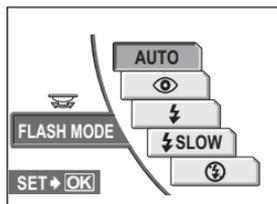
**1st curtain with red-eye reduction 👁 ⚡ SLOW**

This mode is for when you want to use slow synchronization, yet also reduce the red-eye phenomenon, for instance, when shooting a person against a night background. 2nd curtain with red-eye reduction is not available, because the time between the pre-flashes and the 2nd curtain flash is too long to be effective.

Mode dial **P A S M Mv SCENE**

- 1 Press the ⚡ button, and turn the control dial. Select the flash mode, and press the ⚡ button.

"Direct buttons" (P. 16)



2 Press the shutter button halfway.

- In conditions where the flash will fire,  lights (flash stand-by).

3 Press the shutter button fully to take the picture.



? TIPS

When the orange lamp or the  (flash charge) indication blinks

→ The flash is charging. Wait until  and the orange lamp beside the viewfinder turn off.

Shutter speed when using the flash (auto-flash, red-eye reduction, fill-in flash)

- When  (camera movement warning) or the orange lamp lights, the flash fires automatically but the shutter speed locks at a level at which camera movement is not likely to occur. However, the shutter speed varies according to the zoom magnification.

Zoom position	Shutter speed
W (max.)	1/30 sec.
T (max.)	1/100 sec.

Function restrictions according to mode

- [AUTO], [], [], and [  SLOW] are not available in **S** and **M** modes.

! Note

- The flash does not fire in the following situations:
During sequential shooting ([]), [], [**AF** ], [**BKT**]), super macro shooting and panorama shooting.
- The flash may not give you the optimum result in macro mode with the zoom set to wide-angle (W). Check the resulting picture on the monitor.
- When a conversion lens is attached to the camera, vignetting may occur with the built-in flash. To take flash pictures, use an external flash.

Flash intensity control



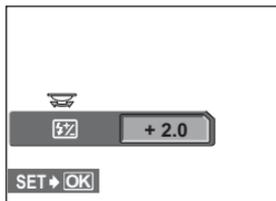
You can adjust the amount of light emitted by the flash. In some situations, you may get better results by adjusting the light emission. Examples include small subjects, distant backgrounds, or situations when increased contrast is desired.

Mode dial P A S M SCENE

1 Turn the control dial while pressing the and buttons to make adjustments.

“Direct buttons” (P. 16)

2 Press the and buttons simultaneously.



? TIPS

- The flash intensity can be set in [1/3EV] steps or [1/2EV] steps.
- “Exposure steps” (P. 122)

! Note

- The flash adjustment effect may not be sufficient if the shutter speed is faster than 1/300.
- When [DIAL] is set to [CUSTOM1], press the button, press , and select from the menu that is displayed.

Slow synchronization



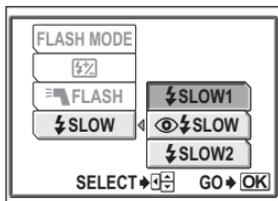
There are 3 settings to choose from when you select [SLOW] with the button.

Mode dial P A S M SCENE

1 Press the button, and turn the control dial. Select [SLOW], and press .

“Direct buttons” (P. 16)

- 2 From [⚡ SLOW], select [⚡ SLOW1], [👁️ ⚡ SLOW], or [⚡ SLOW2], and press .



Selecting the flash

Using the external flash (optional)

Various types of flash shooting are possible with the Olympus FL series external flashes.

The external flash can be used either by itself or together with the built-in flash.

The external flash detects the flash mode and exposure compensation automatically and functions just like the built-in flash.

The external flash can be mounted on the camera by attaching it to the hot shoe on the top of the camera, or by using the exclusive FL-BK01 flash bracket (optional) and FL-CB02 bracket cable (optional).

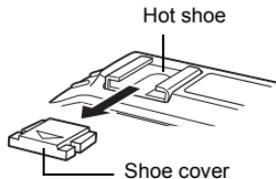
This chapter explains how to use the FL-20 when attached to the hot shoe.

Mode dial 

P A S M  **SCENE**

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

- For instructions on how to attach the flash, refer to the manual for the external flash.
- Keep the shoe cover in a safe place to prevent it getting lost, and replace it on the camera when you have finished using the external flash.



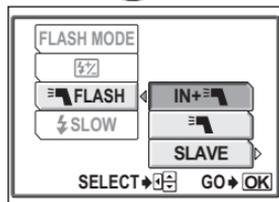
2 Press the button and press .

 "Direct buttons" (P. 16)

3 From [FLASH], select [IN+] or [FLASH], and press .

IN+ : To use the external flash together with the built-in flash

 : To use the external flash only



4 Turn on the external flash.

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

5 Press the button, and turn the control dial. Select the flash mode, and press the button.

 "Flash shooting" (P. 47)

Note

- If close-up pictures are overexposed, try using the built-in flash by itself.
- When the built-in flash and the external flash are used together, the built-in flash is used as the compensating light source. If the amount of light from the external flash is insufficient (beyond its working range), the resulting pictures may be underexposed.
- When shooting using a wide angle setting, confirm that the illuminating angle of the flash covers the angle of the 27mm lens (equivalent for 35mm camera).
- Using a wide panel decreases the flash working range.

Using commercially available external flashes

Provided that the flash can be connected to the hot shoe, a commercially available external flash may be used. For details on compatible commercially available external flashes, refer to P. 186. The amount of light emitted cannot be adjusted on commercially available external flashes except Olympus FL series.

Mode dial



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

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

2 Adjust the shutter speed and aperture.

"Manual shooting" (P. 60)

- Remember that a slow shutter speed can produce blurred images. For the best results, we recommend that you set the shutter speed from 1/200 to 1/300 seconds.

3 Turn on the external flash.

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

4 Set the mode that automatically controls the amount of light emitted by the external flash. Also set the ISO sensitivity and aperture on the external flash to match the camera's settings.

- Refer to the manual for the external flash to select its mode.



! Note

- The camera's flash mode will have no effect on the external flash. The external flash will fire even when the camera's flash mode is set to [OFF] (off).
- Confirm in advance that the external flash you are using is synchronized with the camera.

Using a slave flash mode

This setting is for when using a commercially available slave flash that is synchronized with the camera flash. The amount of light emitted by the flash can be adjusted in 10 levels. The flash can fire in sequential shooting mode, but the interval between shots will be longer if a high emission level is set.

AUTO,  : The setting is automatically changed to [FILL-IN] (Fill-in flash).

  SLOW : The setting is automatically changed to [SLOW1].

Mode dial

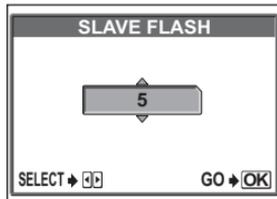
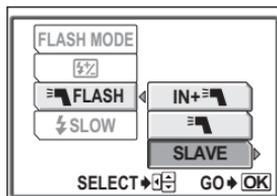


1 Press the  button, then press .

 "Direct buttons" (P. 16)

2 From [FLASH], select [SLAVE], and press .

3 Select an emission level from [1] to [10], then press .



4

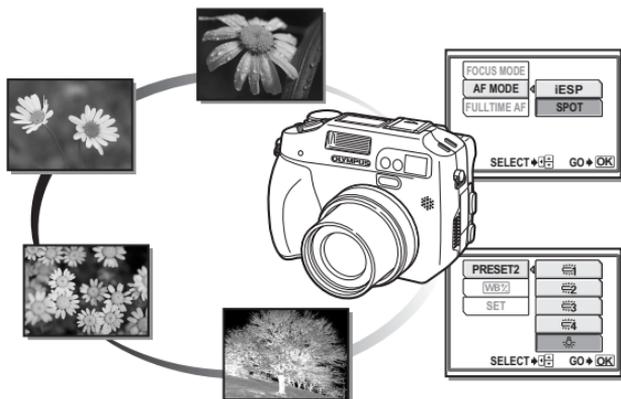
Advanced shooting functions

Letting the camera select the optimal settings is simple and easy, but if you want, you can be a lot more creative. Now that you have mastered basic operation, you can start enjoying your camera's more advanced functions. You can adjust the shooting conditions manually and try out different effects.

For example, when taking pictures of flowers, by reducing the aperture value and focusing on the branch of the tree nearest to you, you can make the flowers stand out against a blurred background.

If it is evening, you can add a touch of color to the night sky. By setting the white balance to ☾ (tungsten light), you can give the dark sky a blue tone.

Adjusting a single function can produce unexpected effects. Try various settings and discover all sorts of new possibilities.



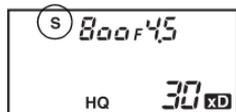
P (Program shooting) mode's program shift allows you to change the combination of aperture value and shutter speed without altering the exposure.

Mode dial



1 Press to change the shutter speed and aperture value.

- S is displayed on the control panel.
- Press , then press once during program shift to reset. Or, press , and press once during program shift to reset.
- Changing the shooting mode also cancels program shift.
- The shift range may be limited by subject brightness or flash settings.



Aperture priority shooting

This function allows you to set the aperture manually. The camera sets the shutter speed automatically. By decreasing the aperture value (F-number), the camera will focus within a smaller range, producing a picture with a blurred background. Increasing the value forces the camera to focus over a wider range, resulting in increased “depth of field” in which both the subject and the background are in focus. Use this mode when you want to play with how the background is depicted.



Aperture value (F-number) is decreased.



Aperture value (F-number) is increased.

Mode dial



1 Turn the control dial to set the aperture value.

Right : Increases the aperture value.

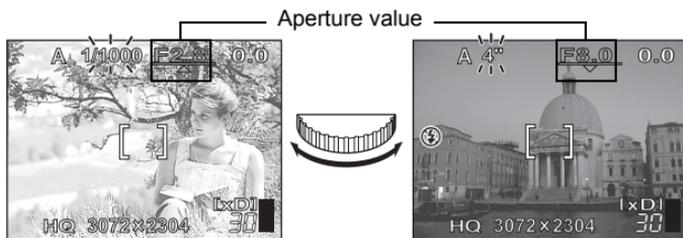
Left : Decreases the aperture value.

Aperture range:

Wide angle: f2.8 to f11, Telephoto: f4.8 to f11

- You can change the adjustment range for the aperture. "Exposure steps" (P. 122)
- The shutter speed is displayed on the control panel when the shutter button is pressed halfway.

Control panel	Monitor	Meaning
	Lit Aperture value displayed in green	Correct exposure
	Blinking Aperture value displayed in red	Unable to attain correct exposure. When using the monitor, follow the procedures below.



When \blacktriangle is displayed, the image is overexposed.

Turn the control dial to the right to increase the aperture value.

When \blacktriangledown is displayed, the image is underexposed.

Turn the control dial to the left to decrease the aperture value.

! Note

- When the flash is set to [AUTO] or , the shutter speed does not become slower than 1/30 sec. for maximum wide angle, or 1/100 sec. for maximum telephoto.
- When [DIAL] is set to [CUSTOM1], use the arrow pad to set the aperture value and exposure compensation. "Dial" (P. 138)

This function allows you to set the shutter speed manually. The camera sets the aperture automatically. Set the shutter speed according to the subject and the type of effect you want.



Setting a fast shutter speed lets you capture fast-moving action as though it was stopped in motion.



Setting a slow shutter speed blurs a moving subject, giving the impression of movement.

Mode dial



1 Turn the control dial to set the shutter speed.

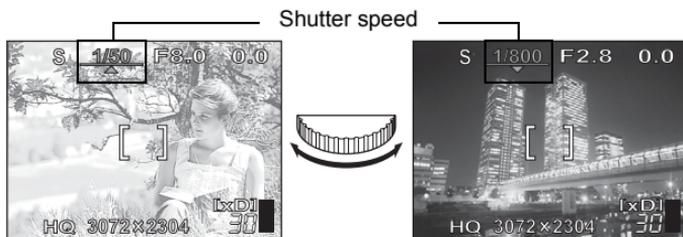
Right : Sets a shutter speed faster.

Left : Sets a shutter speed slower.

Shutter speed range: 4" to 1/2000

- You can change the adjustment range for the shutter speed. "Exposure steps" (P. 122)
- The aperture value is displayed on the control panel when the shutter button is pressed halfway.

Control panel	Monitor	Meaning
	Lit Shutter speed displayed in green	Correct exposure
	Blinking Shutter speed displayed in red	Unable to attain correct exposure. When using the monitor, follow the procedures below.



When ▲ is displayed, the image is overexposed.
Turn the control dial to the right to set the shutter speed faster.

When ▼ is displayed, the image is underexposed.
Turn the control dial to the left to set the shutter speed slower.

4

Advanced shooting functions

! Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.
- The shutter speeds that can be set vary depending on the flash setting and aperture value.
- When [DIAL] is set to [CUSTOM1], use the arrow pad to set the shutter speed and exposure compensation. "Dial" (P. 138)

Manual shooting

M

This mode gives you more creative control, allowing you to set the aperture and shutter speed manually. To check the exposure, refer to the exposure differential.

Mode dial



1

Turn the control dial to set the shutter speed.

Right : Sets a shutter speed faster.
Left : Sets a shutter speed slower.

Turn the control dial while pressing the button to set the aperture value.

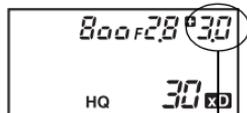
Right : Increases aperture value.
Left : Decreases aperture value.

Adjustment range:

Aperture value: f2.8 to f11
Shutter speed: 15" to 1/4000

Press the button to set the aperture value.

- You can change the adjustment range for the aperture and shutter speed.  "Exposure steps" (P. 122)
- The exposure differential (ranging from -3.0 to +3.0 EV) is displayed when the shutter button is pressed halfway. This figure is the difference between the current exposure (determined from the selected aperture and shutter speed) and the optimum exposure (determined by the camera).
- When the exposure differential is smaller than -3.0 EV or greater than +3.0 EV, the exposure differential in the control panel blinks or the exposure differential in the monitor is displayed in red.
- Press the **AEL** button to display the exposure differential bar as shown right.



Exposure differential



TIPS

To take long exposure (bulb) shots

- Turn the control dial to the left to set the shutter speed to BULB.
- The shutter remains open as long as the shutter button is pressed.
 - The maximum time that it can remain open is 120 seconds.
 - You can connect a remote cable (optional) when using the power battery holder (optional).

Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.
- The shutter speeds that can be set vary depending on the aperture value.
- When [DIAL] is set to [CUSTOM1], use the arrow pad to set the shutter speed and aperture value.  "Dial" (P. 138)

Real display



This setting controls the brightness of the subject on the monitor to improve clarity when taking pictures in **M** mode.

OFF The camera automatically adjusts the brightness to display the subject with optimum clarity.

ON The camera displays the subject at the set exposure. This setting allows you to see what the picture will look like on the monitor before you take it.

Mode dial



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [M mode] ▶ [OFF] / [ON]

☞ “Menu” (P. 23)

4

Advanced shooting functions

My Mode



You can take pictures using settings registered in [My1 MY MODE 1] to [My4 MY MODE 4]. Only the settings in [My1 MY MODE 1] are preset. You cannot select [My2 MY MODE 2] to [My4 MY MODE 4] if no settings have been saved. ☞ “My Mode setup” (P. 124)

Mode dial



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [My 1/2/3/4] ▶
[My1 MY MODE 1] / [My2 MY MODE 2] / [My3 MY MODE 3] /
[My4 MY MODE 4]

☞ “Menu” (P. 23)

? TIPS

- You can set the camera to display the My Mode selection screen automatically when the mode dial is set to My. ☞ “My Mode/SCENE selection screen” (P. 139)

Focusing applications

AF mode

This function allows you to select how the camera focuses on your subject.

- 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** The camera focuses on the subject within the AF target mark.



Subject suitable for [iESP]



Subject suitable for [SPOT]

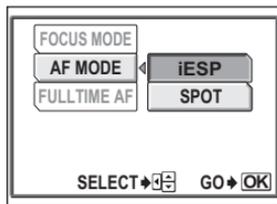
Mode dial  P A S M  SCENE

1 Press the AF//MF button, and press .

 “Direct buttons” (P. 16)

- The menu is displayed only when the camera is set to [AF], [], or [], and  is pressed.

2 From [AF MODE], select [iESP] or [SPOT], and press .



Fulltime AF

- 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 won't miss snapshot opportunities. Also, the subject is automatically kept in focus during movie recording.
- OFF** Press the shutter button halfway to focus.

Mode dial

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [AF/☺/MF] ▶
[FULLTIME AF] ▶ [ON] / [OFF]

☞ “Menus” (P. 23)

! Note

- Fulltime AF consumes more battery power.
- Fulltime AF cannot be used when [☺] is set to [ON] in  mode.

Oracle AF

This function calculates the distance the subject travels toward or away from the camera, and sets the focus accordingly.

Mode dial

P A S M  SCENE

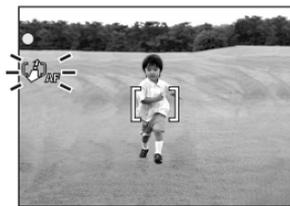
Advanced shooting functions

- 1 Press the AF/☺/MF button, and turn the control dial. Select [ORACLE AF], and press the AF/☺/MF button.

☞ “Direct buttons” (P. 16)

- 2 Move the AF target mark over the subject, and press the shutter button halfway.

-  AF blinks and oracle AF continues to operate while the shutter button is pressed halfway.



- 3 Press the shutter button fully.

! Note

- [ORACLE AF] cannot be selected when , , , or  is set in SCENE mode.
- [ORACLE AF] may not function properly under the following conditions.
The subject is dark or the subject does not contrast much with the background.

AF target

Move the AF target mark to select the area you want to focus on.

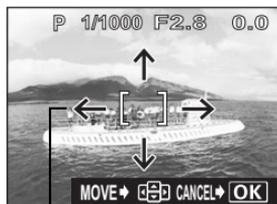
Mode dial  P A S M  SCENE

1 Set the [AF MODE] to [SPOT].

 "Direct buttons" (P. 16), "AF mode" (P. 63)

2 Press the AF//MF button, and use the arrow pad to move the AF target mark to where you want to focus.

- The AF target mark moves using the arrow pad only when the camera is set to [AF], [] or [].



AF target mark

3 Take the picture.

- To return the AF target mark to the start position (center), press  in the screen shown in Step 2.

Note

- The AF target mark cannot move when [DIGITAL ZOOM] is set to [ON].
- The AF target mark returns to the center position when the power is turned off or the mode dial is operated.

AF illuminator

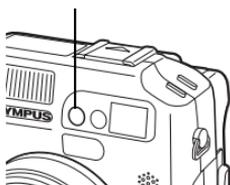
This function enables you to focus on dark subjects with the auto focus.

ON (factory default setting)

When you press the shutter button halfway, the AF illuminator lights automatically to illuminate the subject.

OFF The AF illuminator does not light.

AF illuminator



Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [AF ILLUMINATOR] ▶ [ON] / [OFF]
 ☞ "Menus" (P. 23)

! Note

- When taking close-ups at less than 80 cm (2.6 ft.), the AF illuminator lights but the subject may not be in focus.

Manual focus

MF

Use manual focus when auto focus is unable to focus on the subject.

Mode dial



1 Press the AF/☞/MF button, and turn the control dial. Select [MF], and press the AF/☞/MF button.

☞ "Direct buttons" (P. 16)

- The distance indicator is displayed on the monitor.



2 Press to set the focus.

- During operation, the central area is enlarged. This lets you check whether the focus is correct.
- The distance indicator on the left of the monitor is used for reference.
- When the indicator moves down past 0.8 m (2.6 ft.), the scale automatically switches to the 20 cm (0.7 ft.) to 80 cm (2.6 ft.) display.



3 Take the picture.

The focus is locked at the distance you have set.

? TIPS

To lock the focus

→ After setting the focus in Step 2, press . The focus locks, and **MF** is displayed in red on the monitor.

To lock the focus at the focus lock position

- 1 Press  to turn on the monitor if it is off.
- 2 Position the AF target mark on a subject at the desired distance and press the shutter button halfway.
- 3 While keeping the shutter button pressed halfway, press the **AF/****/MF** button.
 - The distance indicator is displayed on the monitor.
 - [MF] is selected and the focus locks at the focus lock position.
 - Set the camera to [AF] to return to auto focus.

When you move the cursor to the top of the distance indicator, but the camera cannot focus at ∞ (infinity)

→ Press   to make fine adjustments to the cursor position while viewing the monitor.

How to take pictures very close to the subject

→ In super macro MF mode, you can take pictures as close as 3cm (1.2") from the subject using manual focus. Press the **AF/****/MF** button, and turn the control dial. Select [MF], and press the **AF/****/MF** button again.

 "Taking close-up pictures (macro/super macro/super macro MF)" (P. 46)

 **Note**

- When the digital zoom is set to $\times 2.5$ or more, the focus area is not enlarged.
- Using the zoom lever after setting the focus may compromise the setting. Perform the setting again.

Metering

There are 4 ways of measuring the brightness of a subject.

- ESP** Meters the center of the subject separately from the surrounding area, and calculates the optimum exposure. Exposure is determined by metering within the AF target mark. In this mode, even a backlit subject can be shot with optimum exposure regardless of the background light.
- SPOT**  Meters the brightness of the subject at up to 8 different points to determine the optimum exposure based on the average brightness. This method is useful with a high contrast subject that is difficult to meter.
- MULTI METERING**
(MULTI)  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.
- 
(Center-weighted metering) 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.

ESP/Spot metering/Center-weighted metering



Mode dial 

P A S M   SCENE

- 1 Press the  button, and turn the control dial. Select [ESP], [SPOT] or [, and press the  button.
 “Direct buttons” (P. 16)

Multi-metering

MULTI 

Mode dial 

P A S  SCENE

- 1 Press the  button, and turn the control dial. Select [MULTI METERING], and press the  button.
 “Direct buttons” (P. 16)

2 Position the AF target mark on the area you want to meter, and press the AEL button.

- The multi-metering bar is displayed.
- The light is metered at up to 8 different points. Light readings after the 9th are ignored.
- To perform metering again, press the **AEL** button for more than 1 second to display **MEMO**. Press the **AEL** button again to cancel metered values.

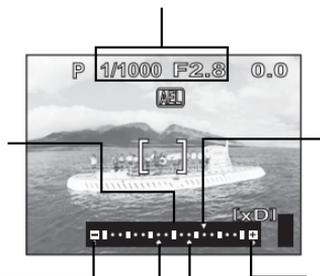


Multi-metering bar

Ex: Metering from 2 points (pressing the AEL button twice)

The aperture and shutter speed as calculated from the average values obtained by metering at 2 points. These values are recalculated every time another point is metered.

The average of 2 metering points. The average is always shown at the center of the bar.



Indicates the difference between the current exposure of the subject and the average exposure value. Press the shutter button halfway to lock the indicator on the current exposure. Be sure to press the **AEL** button to add the current exposure to the average.

The reading when the **AEL** button was pressed. The number of \diamond indicates the number of times the button was pressed. The distance \diamond is from the center of the bar indicates the difference between the metered and average readings.

\diamond turn red when \diamond moves more than ± 3 from the center of the bar (the average reading).

? TIPS

To save the multi-meter reading after taking a picture (AE memory)

- Press the **AEL** button for more than 1 second after metering in Step 2. **MEMO** is displayed. The exposure is saved while **MEMO** is displayed. Press the **AEL** button again to cancel the AE memory.

Canceling the multi-meter reading

- Operating any of the buttons or the mode dial after metering in Step 2 cancels the multi-meter reading.
- Turning off the monitor also cancels the reading.

This function is suitable for situations when optimum exposure is difficult to achieve, such as when there is excessive contrast between the subject and the surroundings.

Ex:



The landscape appears dark because the sky is bright.



Recompose your picture so there is not much sky in the frame and lock the exposure. Compose your picture again with the sky in the frame and take the picture.

Mode dial



1 Compose your picture so that you can lock the exposure, and press the **AEL** button.

"Direct buttons" (P. 16)

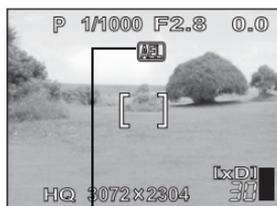
- The meter reading is saved.
- To reset AE lock, press the **AEL** button again. Press the **AEL** button to engage and disengage the AE lock.

2 Position the AF target mark on the subject you want to focus on, and press the shutter button halfway.

- The green lamp lights.

3 Press the shutter button fully.

- The AE lock is automatically canceled when the picture is taken.



While the AE lock is engaged, **AEL** is displayed.



? TIPS**To save the locked meter reading after taking a picture (AE memory)**

→ After setting the AE lock in Step 1, or after pressing the shutter button halfway in Step 2, press the **AEL** button for more than 1 second. **MEMO** is displayed. The exposure is saved while **MEMO** is displayed. Press the **AEL** button again to cancel the AE memory.

When the AE lock was canceled even though it was engaged

→ Do not operate any of the buttons or the mode dial after performing AE lock. Doing so will cancel AE lock.

! Note

- AE lock is not available when multi-metering is enabled. Set the camera to [ESP], [SPOT] or [CAM]. "Metering" (P. 69)
- AE lock is not available when the dual control panel is displayed. "Dual control panel" (P. 133)

ISO sensitivity

The higher the ISO, the better the camera's light sensitivity and ability to shoot in low light conditions. However, high sensitivity introduces noise into the resulting picture, which may give it a grainy appearance.

AUTO

Sensitivity is automatically adjusted according to the light conditions of the subject.

80/100/200/400

With a low ISO setting, you can shoot clear, sharp images in daylight. With a high ISO setting, you can shoot in dark places.

Mode dial

P A S M **SCENE**

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ISO] ▶ [AUTO] / [80] / [100] / [200] / [400] "Menus" (P. 23)

Note

- [AUTO] is not available in **A**, **S**, or **M** modes.
- ISO ratings are based on the sensitivity of normal camera film.
- The shutter speed is decreased when [ISO] is set to [AUTO] and you are shooting in dark conditions without a flash. In this case, the sensitivity is automatically increased to avoid the risk of camera movement.
- When [ISO] is set to [AUTO], the sensitivity automatically increases if the subject is too far away for the flash to reach.
- When using slow synchronization in **P**, **A** or **S** modes, the slowest available shutter speed varies depending on the ISO setting.

Exposure compensation



This function allows you to make fine changes to the exposure setting. The setting range is ± 2.0 EV. When the setting is changed, you can check the result on the monitor.

Mode dial

**P A S**

SCENE

1

Press the  button, and turn the control dial.
Set the exposure compensation, and press the  button.

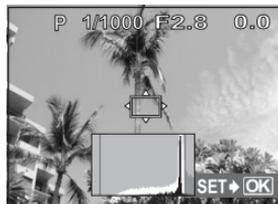
 "Direct buttons" (P. 16)

- Exposure compensation can be set in 1/3EV or 1/2EV steps.  "Exposure steps" (P. 122)



? TIPS

- Often, bright subjects (such as snow) turn out darker than their natural colors. Adjust toward + to make these subjects closer to their real shades. For the same reason, adjust toward – when taking dark subjects.
- Press the  button when the histogram is set to  ON] and the monitor is on to display the histogram.
- In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually.

**! Note**

- Sometimes, using the flash may not produce the brightness (exposure) that was intended.
- The effects of exposure compensation may be limited when the surroundings of the subject are extremely bright or dark.

White balance**WB**

The color of the subject differs depending on lighting conditions. For instance, when daylight, the setting sun or tungsten lighting are reflected on white paper, the shade of white produced will be slightly different for each. By setting the [WB] (white balance), you can achieve more natural-looking colors.

The white balance settings below can be compensated further. Also, the white balance value obtained can be saved.

- AUTO** Automatically adjusts the white balance for any light source.
- PRESET1** For selecting a white balance setting according to the type of light when shooting outdoors.
-  For shooting in the shade.
 -  For shooting on a cloudy day.
 -  For shooting on a sunny day.
 -  For shooting in evening sunlight.
- PRESET2** For selecting a white balance setting according to the type of light when shooting indoors.
-  For shooting under a daylight fluorescent lamp (6,700K)*. This type of lamp is used mainly in homes.

-  For shooting under a neutral white fluorescent lamp (5,000K)*. This type of lamp is generally used in desk lamps, etc.
-  For shooting under a cool white fluorescent lamp (4,200K)*. This type of lamp is generally used in offices, etc.
-  For shooting under a white fluorescent lamp (3,500K)*.
-  For shooting under a tungsten light (3,000K)*.
- * The color temperature values (K) are approximate. They are not an accurate indication of color.

CUSTOM

For saving the white balance and compensation values so as to use them later.  “Saving a custom white balance” (P. 79)

For setting a more precise white balance than preset white balance can provide. To set the optimum white balance for the shooting conditions, point the camera at a white object under the light source you want to use and save the white balance.

Auto white balance

WB AUTO

Mode dial

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [AUTO]

 “Menus” (P. 23)

- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**,  , and **SCENE** modes.

Preset1/Preset2 white balance

Mode dial

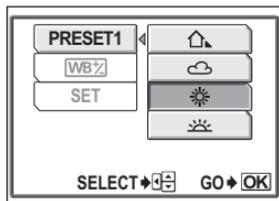
P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [PRESET1] / [PRESET2] ▶ [PRESET1] / [PRESET2]

 “Menus” (P. 23)

- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**,  , and **SCENE** modes.

- 1** Select a white balance setting, and press .



? TIPS

- You can also select a different preset white balance from the one recommended and enjoy interesting results on the monitor.

4

Custom white balance

Mode dial  **P A S M**   **SCENE**

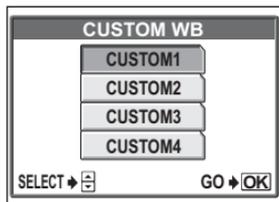
Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [CUSTOM]

 "Menus" (P. 23)

- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**, , and **SCENE** modes.

- 1** Select [CUSTOM1], [CUSTOM2], [CUSTOM3], or [CUSTOM4], and press .

- [CUSTOM1] is set to sunny day light conditions.
- A setting must be saved in the custom white balance to select it.  "Saving a custom white balance" (P. 79)



One-touch white balance



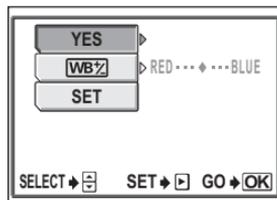
Mode dial  **P A S M**   **SCENE**

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ 

 "Menus" (P. 23)

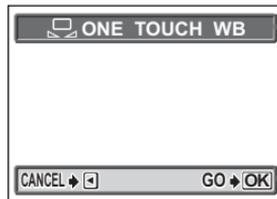
- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**, **MY**, and **SCENE** modes.

1 Select [YES], and press .



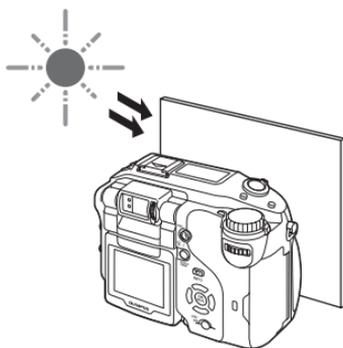
2 With the  **ONE TOUCH WB** screen displayed, point the camera at a sheet of white paper.

- Position the paper so that it fills the screen, making sure there are no shadows.



3 Press .

- The new white balance is set.



One-touch white balance

Note

- When setting the white balance by pointing the camera at a sheet of white paper, the correct setting may not be obtained if the light reflected by the paper is too bright or too dark.
- White balance may not be effective under some special light sources.
- When using a white balance other than [AUTO], play back the picture to check the colors on the monitor.
- When the flash is fired with a white balance setting other than [AUTO], colors may appear different in the resulting picture from the colors you see on the monitor.

White balance compensation



This function lets you make fine adjustments to [AUTO], [PRESET1], [PRESET2], and [ONE TOUCH WB] values.

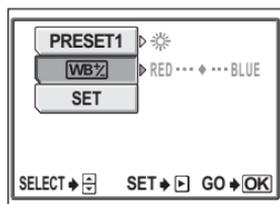
Mode dial

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [AUTO] / [PRESET1] / [PRESET2] / "Menu" (P. 23)

- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**, , and **SCENE** modes.

1 Select [WB], and press .



To set white balance compensation for [PRESET1].

2 Press to adjust the white balance, and press .

- The color becomes bluer each time you press , and redder each time you press .
- The white balance can be adjusted 7 increments in both the [RED] and [BLUE] directions.



WB compensation indicator

Saving a custom white balance

You can save the current white balance setting and white balance compensation value in [CUSTOM1] to [CUSTOM4] and select them as custom white balance menus.

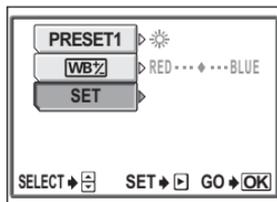
Mode dial

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [WB] ▶ [AUTO] / [PRESET1] / [PRESET2] /  "Menus" (P. 23)

- You can select [WB] from the shortcut menu in **P**, **A**, **S**, **M**, , and **SCENE** modes.

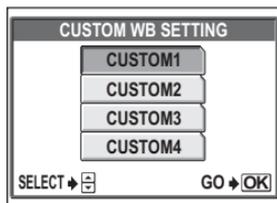
1 Select [SET], and press .



To set white balance for [PRESET1].

2 Select [CUSTOM1], [CUSTOM2], [CUSTOM3], or [CUSTOM4], and press .

- The current white balance setting and compensation value are saved as a custom white balance.
- If a custom white balance is already saved in the selected number, a confirmation screen is displayed. To make a new setting, select [RESET] and press .



4

Advanced shooting functions

Scene modes

This function lets you process the picture according to the purpose. Color reproduction, sharpness, contrast and saturation can be adjusted.

Mode dial 

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [SCENE MODES] ▶ [NORMAL]
/ [👤] / [🏠] / [🔧]  "Menus" (P. 23)

- For [👤], [🏠], and [🔧], see "Selecting a shooting mode according to the situation" (P. 42).

Sharpness



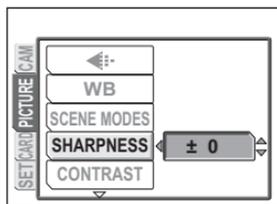
This function adjusts the sharpness of the image.

Mode dial 

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [SHARPNESS]
 "Menus" (P. 23)

1 Press   to adjust the sharpness between [-5] and [+5].

- Toward +: The image contours are emphasized, making the image appear sharper and more vivid. Use this setting when you want to print pictures.
- Toward -: The image contours are softened. Use this setting when you want to edit images on a computer.



Note

- If you adjust the sharpness too far toward +, noise may become conspicuous in the picture.

Contrast



This function adjusts the contrast of the image. For example, you can make images with marked differences in light and shadow softer, and those with less differences more vivid.

Mode dial



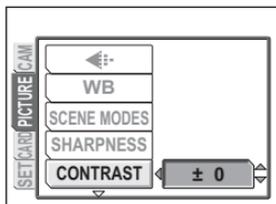
P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [CONTRAST]

"Menus" (P. 23)

1 Press to adjust the contrast between [-5] and [+5].

- 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. Use this setting when you want to edit images on a computer.



Hue



This function adjusts the tint of the whole picture.

Mode dial



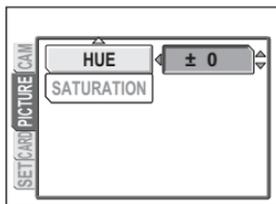
P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [HUE]

"Menus" (P. 23)

1 Press to adjust the hue between [-5] and [+5].

- Toward +: Based on the blue of the sky, the picture takes on a greener hue.
- Toward -: Based on the blue of the sky, the picture takes on a purpler hue.



4

Advanced shooting functions

This function adjusts the color strength.

Mode dial

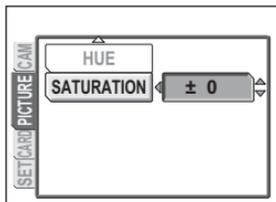
P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [PICTURE] ▶ [SATURATION]

“Menu” (P. 23)

1 Press to adjust the saturation between [-5] and [+5].

- Toward +: Colors become stronger.
- Toward -: Colors become weaker.



Noise reduction



The shutter speed is reduced when shooting in dark places as less light reaches the CCD. During long exposures, signals are generated by parts of the CCD where no light is focused and are recorded on the picture as noise. When [NOISE REDUCTION] is set to [ON], the camera automatically reduces this noise to produce clearer pictures.

ON



Noise is reduced. Shooting time takes twice as long as usual. Noise reduction can only be used when the shutter speed is slower than 1/2 sec.

OFF



Noise is not reduced. Noise may be conspicuous at slow shutter speeds.

The purpose of these pictures is to illustrate the effects of noise reduction. They are not actual pictures.

Mode dial



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [NOISE REDUCTION] ▶ [ON] / [OFF] "Menus" (P. 23)

Note

- [NOISE REDUCTION] is always set to [ON] when **SCENE** mode is set to .
- When [NOISE REDUCTION] is set to [ON], the camera implements noise-reducing processes after each shot. For this reason, shooting time is approximately twice as long as usual. During this time, the next picture cannot be taken.
- When [NOISE REDUCTION] is set to [ON], sequential shooting, high speed sequential shooting, AF sequential shooting, and auto bracketing cannot be used.
- This function may not work effectively with some shooting conditions or subjects.

Histogram

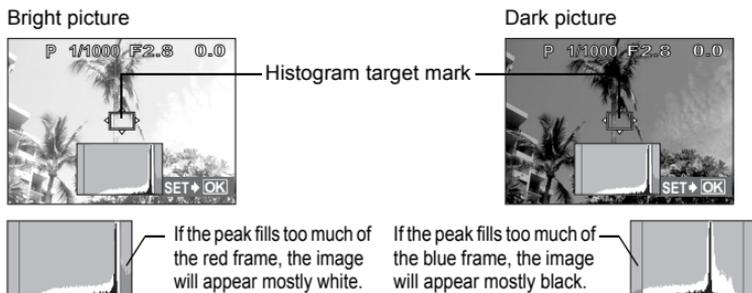


When shooting still pictures, you can display a histogram showing the brightness and contrast of your subject in the monitor. You can also display the black and white areas directly on the picture.

With the histogram, you can monitor the brightness and contrast of your subject allowing you to have greater control of the exposure.

OFF	Hides the histogram.
ON	Press the button to display the histogram. "Exposure compensation" (P. 73)
ON	Displays the histogram for every picture.
DIRECT	Displays the black and white areas directly on the picture.

Ex.1: When [ON] or [ON] is selected in **P** mode.



The part indicated in green in the histogram shows the luminance distribution within the histogram target mark.

Ex.2: When [DIRECT] is selected in **P** mode.



Red dots: Mainly white area
Blue dots: Mainly black area

When there are black and white parts in the same area, they are displayed as blue dots.

Mode dial P A S SCENE

- 1 Press the button, and press .
- 2 Select a histogram, and press .

? TIPS

- Press to switch between normal and histogram display.
 "Direct buttons" (P. 16)

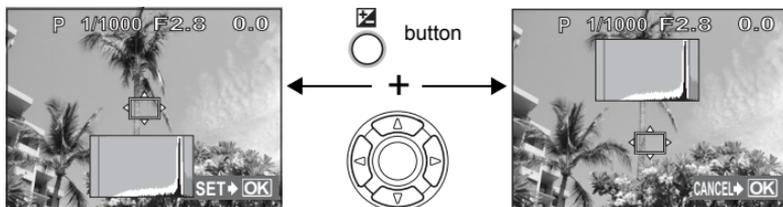
! Note

- The histogram is not displayed in the following situations even if ON], [ON] or [DIRECT] is selected.
During panorama shooting or multi-metering.
- The histogram displayed during shooting may differ from the histogram displayed during playback.

● Moving the histogram target mark

While the histogram is displayed in shooting mode, press the  button, and use the arrow pad to move the histogram target mark.

To reset the position of the histogram target mark, press  while it is moving.



Frame assist

This function displays a frame to assist in composing the picture.

- OFF** Hides the frame.
- 1 Displays a frame consisting of horizontal and vertical lines.
 - 2 Displays a frame consisting of diagonal lines.



When [1] is set.

Mode dial 

P A S M  **SCENE**

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FRAME ASSIST] ▶ [OFF] / [1] / [2]  "Menus" (P. 23)

? TIPS

- Press  to display frame assist.  "Direct buttons" (P. 16)

! Note

- The frame is not available during panorama shooting.

5

Additional functions

At a sporting event...

Use movie mode to capture the atmosphere by recording the cheers and applause along with the action. Or use sequential shooting mode to take a succession of shots of a goal and pick out the best ones later.

In the country or at a tourist spot...

Use panorama mode to capture a beautiful mountain range or impressive building.

At a party or family gathering...

Use the self-timer or remote control function to take group photos at school reunions or birthday parties.

When you want to add a special effect...

Add a sepia effect to produce an old-fashioned touch, or a black & white effect to produce a clear, sharp image while checking the picture on the monitor.





This function allows you to record movies. When the record mode is set to SHQ, the camera can record up to 20 seconds.

Mode dial



1 Decide the composition of the picture.

- The remaining recording time on the card that you are using is displayed on the monitor.
- You can use the zoom lever to enlarge your subject.



Remaining recording time

2 Press the shutter button fully to start recording.

- The card access lamp blinks while the movie is being stored on the card.
- During movie recording,  lights red.

3 Press the shutter button again to stop recording.

- When the remaining recording time has been used up, recording stops automatically.



? TIPS

To keep the subject in focus all the time during movie recording

→ Set [M] to [OFF] and [FULLTIME AF] to [ON].  “Fulltime AF” (P. 63), “Recording sound with movies” (P. 97)

To use the zoom during movie recording

→ Set [DIGITAL ZOOM] to [ON].  “Using the digital zoom” (P. 45)

→ If you set [M] to [OFF], you can use the optical zoom during movie recording.

 “Recording sound with movies” (P. 97)

Note

- Depending on the card, the remaining recording time may drop rapidly during recording. Try using the card again after formatting it with your camera.
 - ☞ "Formatting" (P. 117)
- In  mode, the flash and manual focus (MF) cannot be used.

Notes for recording long movies

- When the record mode is set to HQ, SQ1, or SQ2, recording will continue until the card is full unless stopped by pressing the shutter button.
- A long recorded movie cannot be edited. (P. 109)
- If a single movie recording uses up all of the card's memory, create space on the card by erasing the movie or downloading it to a computer.

Camera movement compensation

This function reduces the blur incurred by camera movement when taking movies. The camera moves the image-capture area of the CCD according to the movement of the subject, reducing blur when recording. The images are recorded slightly larger when [] is set to [ON].

Mode dial

Top menu ▶ [] ▶ [OFF] / [ON]

☞ "Menus" (P. 23)

1 Take the picture.

Displayed during camera movement compensation.

**Note**

- When the camera moves a lot or the subject is moving quickly, the compensation function may not operate effectively.
- When taking pictures with the camera stabilized, set [] to [OFF], otherwise the movement of the subject may influence the screen to move.

Sequential shooting

There are 4 sequential shooting modes: high speed sequential shooting, sequential shooting, AF sequential shooting and auto bracketing. To set a sequential shooting mode, go to [DRIVE] on the mode menu.

Sequential shooting cannot be performed when [⏪] is set to [TIFF].

-  Shoots 1 frame at a time when the shutter button is pressed. (Normal, single-frame shooting mode)
- HI**  Pictures can be taken at a faster speed than normal sequential shooting. The sequential shooting speed varies depending on the record mode setting.
2 frames at approx. 2.5 frames/sec.
-  Focus, exposure and white balance are locked at the first frame.
Approx. 11 frames at 1.1 frames/sec. (in HQ mode)
- AF**  Adjusts the focus 1 frame at a time. The shooting speed is slower than for normal sequential shooting.
- BKT** When [BKT] is set, pressing the shutter button fully takes pictures sequentially while changing the exposure for each frame. The exposure differential and number of frames can be selected in the menus. The focus and white balance are locked at the first frame.

Ex: When [BKT] is set to [±1.0] [×3]



-1.0



0.0



+1.0

High speed sequential shooting/Sequential shooting/AF sequential shooting

Mode dial  P A S M  SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DRIVE] ▶ [HI ] / [] / [AF ]  "Menus" (P. 23)

- You can also select [DRIVE] from the shortcut menu.

1 Take the picture.

- Press the shutter button fully and keep it pressed. The camera will take pictures in sequence until you release the button. You can only take 2 frames at a time with high speed sequential shooting.
- You are recommended to use the viewfinder for sequential shooting. During sequential shooting, the subject does not appear on the monitor.

Auto bracketing

BKT

Mode dial  P A S  SCENE

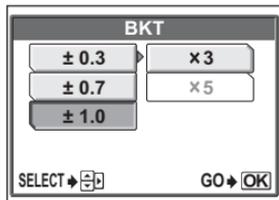
Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DRIVE] ▶ [BKT]

 "Menus" (P. 23)

- You can also select [DRIVE] from the shortcut menu.

1 Select the exposure differential and number of shots and press .

- The differential that can be selected varies depending on the [EV STEP] setting.  "Exposure steps" (P. 122)
- In some combinations of image size and record mode, only [×3] is available.



2 Take the picture.

- Press the shutter button fully and keep it pressed to shoot the preset number of pictures. You can stop shooting at any time by releasing the shutter button.

Note

- Sequential shooting ([HI , [, [AF , [BKT]) is not possible in the following situations.
 - When [] is selected for the SCENE mode, [] is set to [TIFF] or when [NOISE REDUCTION] is set to [ON].
 - [] and [AF ] are not available when [] is set to [RAW].
- In sequential shooting mode ([HI , [, [AF , [BKT]), the built-in flash does not fire. The external flash does not fire in BKT mode.
- In modes other than S and M, as the maximum shutter speed is set to 1/30 sec., adequate exposure is not obtained when shooting a dark subject.
- When auto bracketing in a mode other than S mode, the camera auto brackets at a shutter speed of 1/30 sec. if the shutter speed is set longer than 1/30 sec. with an exposure differential of 0.
- If the battery power is low and the battery check blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.
- If there is not enough space available on the card for the number of frames you have set during auto bracketing, you cannot continue shooting.



This function lets you take pictures using the self-timer. Fix the camera securely on a tripod for self-timer shooting. This function is useful for taking pictures when you want to be included in the photograph.

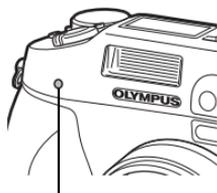
Mode dial P A S M SCENE

1 Press the button, and turn the control dial. Select [], and press the button.

"Direct buttons" (P. 16)

2 Press the shutter button fully to take the picture.

- Pressing the shutter button halfway locks the focus and exposure.
- The self-timer/remote control lamp lights for approximately 10 seconds, then starts blinking. After blinking for approximately 2 seconds, the picture is taken.
- To stop shooting while in mode, press the shutter button fully again.
- To cancel the self-timer, press the button.
- The self-timer mode is automatically canceled after one shot.



Self-timer/
Remote control lamp

Note

- If sequential shooting (, [AF], [BKT]) is attempted in self-timer mode, the camera shoots 5 frames at most regardless of the setting.

Function shooting (panorama/black & white/sepia)

PANORAMA

You can take advantage of panorama shooting with Olympus cards (xD-Picture Card). Panorama shooting lets you connect pictures with overlapping edges into a single panoramic picture, using the OLYMPUS Master software.

BLACK & WHITE

For taking pictures in black and white.

SEPIA

For taking pictures in sepia.

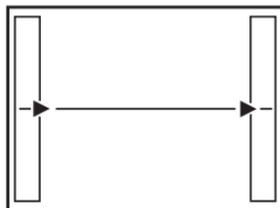
Panorama shooting

Mode dial  P  SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FUNCTION] ▶ [PANORAMA]
 "Menus" (P. 23)

1 Use the arrow pad to choose at which edge you want to connect the pictures.

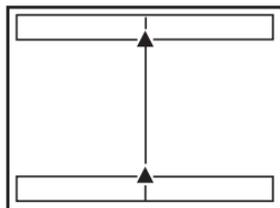
-  : The next picture is connected at the right edge.
-  : The next picture is connected at the left edge.
-  : The next picture is connected at the top.
-  : The next picture is connected at the bottom.



Connects pictures from left to right

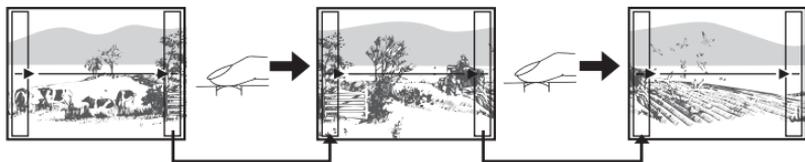
2 Make sure that the edges of the pictures overlap, then take the pictures.

- The focus, exposure and white balance are set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
- You cannot adjust the zoom after the first picture.
- Panorama shooting is possible for up to 10 pictures.
- When you have taken 10 pictures, a warning mark  is displayed.



Connects pictures from bottom to top





The part of the previous picture where it will be joined to the next picture does not remain in the frame on the edge of the screen. You have to remember what the part in the frame looked like and take the next picture so it overlaps. Compose your shots so that the right edge of the previous picture overlaps with the left edge of the next picture if you are connecting pictures from left to right (or vice versa if you are connecting pictures from right to left).

3 Press to exit panorama shooting.

Note

- Panorama mode is only available with Olympus cards.
- During panorama shooting, the flash, sequential shooting ([HI , [, [AF , and [BKT]) and program shift are not available.
- Images are saved in JPEG (low compression) format when panorama shooting is performed with [] set to [TIFF]. The size of the JPEG image is the same as TIFF (non compression).
- Panorama shooting is not available when [] is set to [RAW].
- If the mode dial is operated during panorama shooting, the camera cancels the panorama mode and returns to normal shooting.
- The camera itself cannot connect panorama pictures. The OLYMPUS Master software is necessary to connect the pictures.

Black & white/sepia

Mode dial 

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FUNCTION] ▶
[BLACK & WHITE] / [SEPIA]  “Menu” (P. 23)

Note

- [WB], [, [SATURATION], and [HUE] settings cannot be made when [BLACK & WHITE] or [SEPIA] is set.

Remote control shooting (optional)

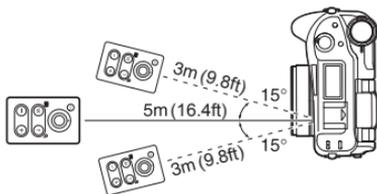


This function lets you take pictures using the optional remote control (RM-1). This is useful when you want to take a picture with yourself in it or a night scene without touching the camera.

Mode dial P A S M SCENE

- 1 Mount the camera on a tripod or place it on a stable, flat surface.
- 2 Press the button, and turn the control dial. Select , and press the button.
- 3 Press the shutter button on the remote control.

- The focus and exposure are locked. The self-timer/remote control lamp blinks before taking the picture.



? TIPS

When the self-timer/remote control lamp does not blink after the shutter button on the remote control is pressed

- The remote control may be too far from the camera. Move closer to the camera and press the shutter button on the remote control again.
- The remote control signal is jammed. Refer to the instruction manual for the remote control and change the channel.

To operate the zoom from the remote control

- Aim the remote control at the receiver on the camera and press the W or T button on the remote control. The self-timer/remote control lamp blinks during zoom operation.

How to cancel remote control mode

- The remote control mode is not canceled automatically after shooting. Go to Step 2 and set the mode to [OFF].

Note

- If the remote control receiver is exposed to strong light, the effective signal distance may be reduced or shooting may not take place.
- To shoot sequential shots using the remote control, press and hold the shutter button on the remote control. If the camera does not receive the remote control signal properly, sequential shooting may stop.
- To view pictures using the remote control, refer to the instruction manual for the remote control.

Changing the time until remote control is activated

You can select the time from when the shutter button on the remote control is pressed until the picture is taken.

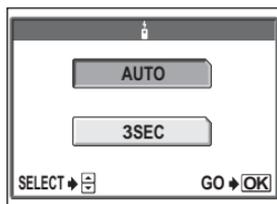
- AUTO** The picture is taken immediately when the shutter button on the remote control is pressed.
- 3SEC** The picture is taken approximately 3 seconds after the shutter button on the remote control is pressed.

Mode dial

1 Press the button, then press .

- When [OFF] or is set, the menu cannot be displayed by pressing .

2 Select [AUTO] or [3SEC], and press .



Recording sound with still pictures



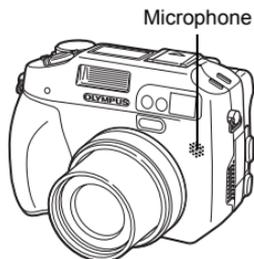
Sound can be recorded when taking still pictures. Recording starts about 0.5 seconds after the shutter is released and lasts about 4 seconds. When this function is enabled, sound is recorded automatically every time you take a picture.

Mode dial P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [U] ▶ [ON] / [OFF]

"Menus" (P. 23)

- 1 When recording starts, aim the camera microphone at the source of the sound you want to record.



? TIPS

- appears when still pictures and movies with sound are played back. During playback, sound is output from the speaker. The volume can be adjusted. "Playback volume" (P. 128)
- Sound can be added later to still pictures. Recorded sound can also be re-recorded. "Recording sound" (P. 108)

! Note

- If the microphone is farther than 1 m (3.3 ft.) from the subject, sound may not be recorded properly.
- Pictures cannot be taken during sound recording.
- Sound recording is not possible in the following cases:
 - When [] is set to [TIFF], [DRIVE] is set to sequential shooting ([], [], [BKT]), or during panorama shooting.
- Sound recording may also pick up camera noises, such as button operations, shutter movement, etc.
- Sound recording may not be possible if there is insufficient space in the card memory.



Sound can be recorded while shooting a movie.

Mode dial



Top menu ▶ [🎤] ▶ [ON] / [OFF]

👉 "Menus" (P. 23)

! Note

- When [🎤] is set to [ON], the optical zoom is locked during movie recording. If you wish to use the zoom during movie recording, set [DIGITAL ZOOM] to [ON]. If [🎤] is set to [OFF], you can use both the optical zoom and digital zoom during movie recording.
- If the camera is more than 1 m (3.3 ft.) away from the source of the sound, sound may not be recorded clearly by the built-in microphone.

Accessory settings (optional)

Make this setting when using optional Olympus accessories (conversion lens or underwater housing).

- Conversion lens
- Underwater housing

Mode dial

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ACCESSORY] ▶ [OFF] / [🎤] / [📷]

👉 "Menus" (P. 23)

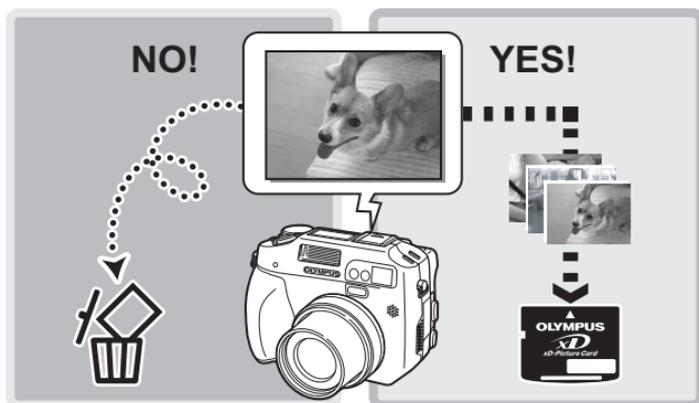
! Note

- When a filter is attached to the camera, the conversion lens or underwater housing cannot be used.
- When a conversion lens is attached to the camera, vignetting may occur. To take flash pictures, use an external flash.
- Focusing may take some time when the conversion lens or underwater housing is attached to the camera.
- Select [📷] if using a conversion lens with the underwater housing.

Playback

With film-type cameras, you cannot see the pictures you have taken until the film has been developed. And aren't you sometimes disappointed with the results when you do eventually see them? Pictures of blurred scenery or someone with their eyes shut. Or maybe you took several pictures of the same scene because you weren't sure whether they would come out or not. That's no way to record important memories! With a digital camera, you can review your pictures immediately.

Just play the picture back as soon as you've taken it. If you don't like what you see, erase and take it again. So don't be afraid of pictures not coming out well – just keep on pressing that shutter button!





Mode dial



- The monitor turns on and displays the last picture taken.

1 Use the arrow pad or control dial to play back the picture you want to view.

• Arrow pad



: Displays the next picture.



: Displays the previous picture.



: Jumps to the picture 10 frames back.



: Jumps to the picture 10 frames ahead.

• Control dial

Turn to the right: Displays the next picture.

Turn to the left: Displays the previous picture.

? TIPS

- You can use this function in shooting mode by pressing the **QUICK VIEW** button.

! Note

- If the camera is not used for over 3 minutes, the camera enters the sleep mode and the monitor turns off.

Close-up playback



Pictures displayed on the monitor can be enlarged 2, 3, 4, 5, 6 or 7 times.

Mode dial



1 Displays the still picture you want to enlarge.

2 Pull the zoom lever toward T (Q).

- Each time you pull the zoom lever, the picture is enlarged.
- By using the arrow pad while the enlarged picture is displayed, you can shift the picture in the desired direction, enabling you to view a different portion.
- Turning the control dial while the enlarged picture is displayed, displays the next picture in the same size.
- To return the picture to the original size (1×), push the zoom lever toward W.



6

Playback

! Note

- You cannot enlarge pictures with .
- Pictures cannot be stored in an enlarged state.

Index display



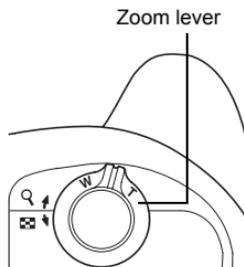
This function lets you show several pictures at the same time on the monitor. The number of pictures that can be shown are 4, 9 or 16.

 "Selecting the number of pictures" (P. 101)

Mode dial

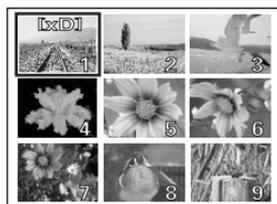


1 Push the zoom lever toward W ().

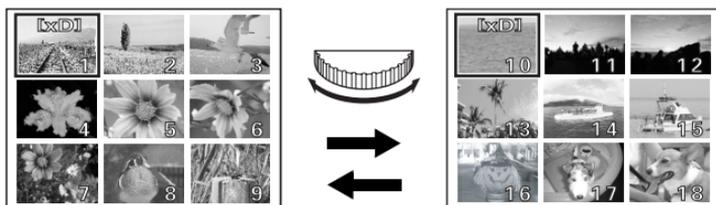


- Use the arrow pad to select the picture.

-  : Moves to the previous frame.
-  : Moves to the next frame.
-  : Moves to the frame above.
-  : Moves to the frame below.



- Turning the control dial during an index display allows you to change the pages displayed.



- To return to single-frame playback, pull the zoom lever toward T.  "Single-frame playback" (P. 99)

Selecting the number of pictures

This function lets you select the number of pictures in an index display from 4, 9 and 16.

Mode dial  P A S M  SCENE 

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶  ▶ [4] / [9] / [16]

 "Menus" (P. 23)



This function displays still pictures stored in the card one after another. Only the first frame of each movie is displayed. Select a still picture and display the top menu.

Mode dial



Top menu ▶

"Menus" (P. 23)

- The slideshow starts.
- Press to stop the slideshow. The slideshow will not stop until you cancel it by pressing .

Note

- You are recommended to use the optional AC adapter when running a slideshow for a long period of time. If the battery is used, the camera will enter sleep mode after about 30 minutes and stop the slideshow automatically.

Picture rotation



Pictures taken with the camera held vertically are displayed horizontally. This function lets you turn such pictures 90° counterclockwise or clockwise so that they are displayed correctly.

Mode dial



1 Press the button in the single-frame playback mode or index display mode.

"Direct buttons" (P. 16)

- Each press rotates the image in the following sequence: 90° counterclockwise, 90° clockwise, and back to the original.

Note

- The following pictures cannot be rotated.
Movies, protected pictures, pictures that have been edited on a computer and pictures taken with another camera.
- New picture orientations are saved even when the power is turned off.

Playing back movies



This function lets you play back movies. You can fast forward the movie or play it back one frame at a time.

Select an image with and display the top menu.

Mode dial



Top menu ▶ [MOVIE PLAYBACK]

“Menus” (P. 23)

- The movie is played back. When playback ends, the camera automatically returns to the beginning of the movie and displays the [MOVIE PLAYBACK] menu.
- To play the movie again, select [RESTART]. To return to playback mode, select [EXIT].



● Operations during movie playback

is displayed on movies that have sound recorded. Pressing lets you adjust the sound volume during playback.

- : Increases the volume.
- : Reduces the volume.
- : Each time you press the button, the playback speed changes in the following order: 2x; 20x; and back to 1x.
- : Plays the movie in reverse. Each time you press the button, the playback speed changes in the following order: 2x; 20x; and back to 1x.
- : Pauses the movie and lets you play it back frame by frame.



Playing time/
total recording time

● Frame by frame playback

- : Displays the first frame of the movie.
- : Displays the last frame of the movie.
- : Displays the next frame. The movie can be played continuously by holding the button down.
- : Displays the previous frame. The movie can be played continuously in reverse by holding the button down.
- : Displays the [MOVIE PLAYBACK] menu.



! Note

- The card access lamp blinks while the camera is reading the movie from the card. Reading of movies may take some time. Do not open the card cover while the card access lamp is blinking. Doing so may damage the data on the card and render the card unusable.

6

Playback

Editing still pictures

This function lets you edit still pictures and store them as new pictures. The following editing operations are possible.

RAW DATA EDIT Adjusts the white balance, sharpness, etc. of pictures recorded in raw data format and stores them as new TIFF or JPEG files. You can check the result on the monitor and make sure the desired effect has been achieved. P. 104



Changes the image size to 640 × 480 or 320 × 240 and saves the picture as a new file. P. 106



RED EYE FIX Corrects the red-eye phenomenon caused by the light from the flash making the subject's eyes appear red in the picture and saves the picture as a new file. P. 108

Editing raw data

Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [RAW DATA EDIT]

"Menus" (P. 23)

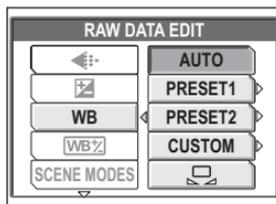
6

Playback

1 Turn the control dial to select the picture you want to edit, and press .

- To use the [RAW DATA EDIT] function, select a picture taken with [] set to [RAW].

2 Select an editing option, and press .



3 When you have finished editing the data, press .

- Raw data can be edited using the following functions.

Function	Settings	Ref. page
	TIFF, SHQ, HQ, SQ1, SQ2	P. 33
	±2	P. 73
WB	AUTO, PRESET1, PRESET2, CUSTOM,  *	P. 74
	RED7 – BLUE7	P. 78
SCENE MODES	NORMAL,  ,  , 	P. 80
SHARPNESS	±5	P. 80
CONTRAST	±5	P. 81
HUE	±5	P. 81
SATURATION	±5	P. 82
FUNCTION	OFF, BLACK & WHITE, SEPIA	P. 92
	–	P. 106

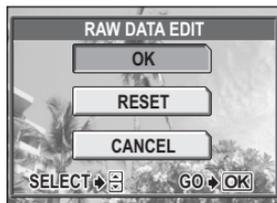
* Only available when the picture is taken with [WB] set to .

4 Select a card, and press .

- If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.

5 Select [OK], and press .

- The [BUSY] bar is displayed and after the image is saved, the camera returns to Step 1.
- The edited picture is stored as a separate picture from the original.
- To edit the data again, select [RESET], or to cancel editing, select [CANCEL]. Press .



Resizing



Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶

"Menus" (P. 23)

1 Turn the control dial to select the picture you want to edit, and press .

2 Select an image size, and press



3 Select a card, and press .

- If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.

4 Select [OK], and press .

- The [BUSY] bar is displayed during resizing. After the image is saved, the camera returns to Step 1.
- The resized picture is stored as a separate picture from the original.
- To cancel resizing, select [CANCEL] and press .

**Note**

- Resizing is not possible in the following cases.
 - Movies, pictures taken in raw data format, pictures that have been edited on a computer, when there is insufficient memory space on the card, or pictures taken with another camera.
- If the image size of the selected picture is 640 × 480, you cannot select [640 × 480].

Trimming



Mode dial



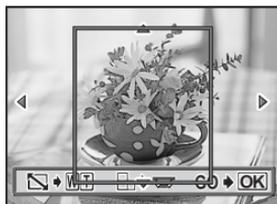
Top menu ▶ [MODE MENU] ▶ [EDIT] ▶

"Menus" (P. 23)

1 Turn the control dial to select the still picture you want to edit, and press .

2 Use the arrow pad, zoom lever and control dial to decide the trimming position and size.

- Press    to select the trimming frame, and move the zoom lever toward W or T to decide the trimming size.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 3,072 × 2,304, or 3,072 × 2,048.



3 Press .

4 Press   to select the card, and press .

- If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.

5 Select [OK], and press .

- The [BUSY] bar is displayed. After the image is saved, the camera returns to Step 1.
- The trimmed picture is stored as a separate picture from the original.
- If you want to trim the picture again, select [RESET] and press . Repeat the procedure from Step 2.
- To quit the trimming function, select [CANCEL] and press .



Note

- Trimming is not possible in the following cases.
 - Movies, pictures taken in raw data format, or when there is insufficient memory space on the card.
- If a trimmed picture is printed, it may appear grainy.

Red-eye correction

Select the still picture that you want to correct, then display the top menu.

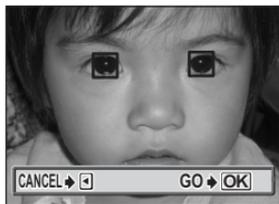
Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [REDEYE FIX] "Menus" (P. 23)

1 When [START] is displayed, press .

- After the [BUSY] bar is displayed, the areas targeted for correction are framed in blue.



2 Press .

- The [BUSY] bar is displayed, and the corrected picture is stored as a separate picture from the original.
- When the blue frame is not displayed, red-eye correction is not available.

Note

- Red-eye correction is not possible in the following cases:
When [⏪] is set to [RAW] or [TIFF].
- Red-eye correction may not work on all pictures or may correct parts other than the eyes.

6

Playback

Recording sound



Sound can be added to a still picture that you have already taken. (This is known as "after-recording".) You can also re-record over the sound that has already been recorded. Total recording time per picture is approximately 4 seconds.

Select the still picture to which you want to add sound.

Mode dial

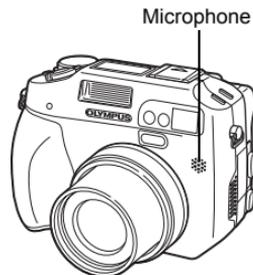


Top menu ▶ [🎤]

"Menus" (P. 23)

1 Recording starts. Aim the internal microphone toward the sound you want to record.

- The [BUSY] bar is displayed during recording.



! Note

- If the microphone is further than 1 m (3.3 ft.) from the subject, sound may not be recorded properly.
- If you re-record the sound, the original sound is erased.
- You may not be able to record sound when there is insufficient card memory (the [CARD FULL] message is displayed).
- The microphone may pick up the sound of buttons operated.
- Once sound is added to a picture, it is not possible to erase the sound. In this case, make a re-recording with silence.

Editing movies

This function lets you create indexes and edit movies.

- INDEX** 9 frames extracted from a movie are displayed as an index and stored on the card as a still picture.
 [M] [R] “Creating an index” (P. 110)
- EDIT** This function lets you extract parts of the movie that you want.
 [M] [R] “Editing a movie” (P. 111)

Select a picture with [M] and display the top menu.

Creating an index

Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [INDEX]

▶ "Menus" (P. 23)

1 Select the first frame of the index, and press .

-  : Jumps to the first frame of the movie.
-  : Jumps to the last frame of the movie.
-  : Displays the next frame. The movie can be played continuously by holding the button down.
-  : Displays the previous frame. The movie can be played continuously in reverse by holding the button down.



2 As in Step 1, select the last frame of the index, and press .

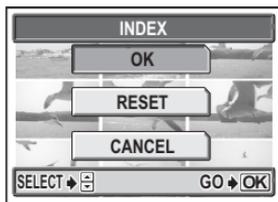


3 Select a card, and press .

- If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.

4 Select [OK], and press .

- The [BUSY] bar is displayed. After the 9 frames extracted from the movie appear as an index display, the camera returns to the playback mode. The index is stored as a new picture.
- To select different frames, select [RESET] and press . Repeat the procedure from Step 1.
- To quit the editing function, select [CANCEL] and press .



? TIPS

- The index is stored as a still picture in a different record mode from the original movie.

Record mode when the movie was shot	Record mode when stored as an index
SHQ, HQ	SQ1 (2,048 × 1,536 pixels: HIGH)
SQ1, SQ2	SQ2 (1,024 × 768 pixels: HIGH)

! Note

- The interval between the frames that are automatically extracted varies depending on the length of the movie.
- An index consists of 9 frames.
- You cannot create an index if there is insufficient memory space on the card.

Editing a movie

Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [EDIT]

▶ "Menus" (P. 23)

1 Select the first frame of the part you want to keep, and press .

 : Jumps to the first frame of the movie.

 : Jumps to the last frame of the movie.

 : Displays the next frame. The movie can be played continuously by holding the button down.

 : Displays the previous frame. The movie can be played continuously in reverse by holding the button down.

**2** As in Step 1, select the last frame of the part you want to keep and press .

3 Select a card, and press .

- If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.

4 Select [OK], and press .

- To select different frames, select [RESET] and press . Repeat the procedure from Step 1.
- To quit the editing function, select [CANCEL] and press .



5 Select [NEW FILE] or [OVERWRITE], and press .

NEW FILE Stores the edited movie as a new movie.

OVERWRITE Stores the edited movie with the same name as the original. The original movie is not stored.

- The [BUSY] bar is displayed. After the edited movie is stored as a new movie or the original movie is overwritten, the camera returns to the playback mode.



Note

- You cannot select [NEW FILE] if there is insufficient memory space on the card.
- The editing process of long movies is more time-consuming.

Playback on a TV

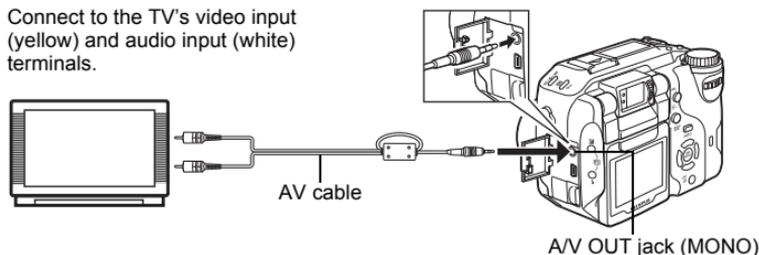
Use the AV cable provided with the camera to play back recorded images on your TV. You can play back both still pictures and movies on your TV.

Mode dial 



- 1 **Make sure that the TV and camera are turned off. Connect the A/V OUT jack on the camera to the video input terminal on the TV using the AV cable provided with the camera.**

Connect to the TV's video input (yellow) and audio input (white) terminals.



- 2 **Turn the TV on, and set it to the video input mode.**

- For details of switching to video input, refer to your TV's instruction manual.

- 3 **Turn the camera on.**

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

? TIPS

- You are recommended to use the optional AC adapter when playing back pictures on a TV.
- The close-up playback, index display and slideshow functions can also be used on a TV screen.

! Note

- Make sure that the camera's video output signal is the same as the TV's video signal. "Video output selection" (P. 113)
- The camera's monitor turns off automatically when the AV cable is connected to the camera.
- Be sure to use the AV cable provided to connect the camera to the TV.
- The picture may appear off-center on the TV screen.

Video output selection

You can select [NTSC] or [PAL] according to your TV's video signal type. Use this setting when playing back pictures on a TV in a foreign country. Select the [VIDEO OUT] signal before connecting the AV cable. If you select the wrong video signal type, you will not be able to play back the recorded pictures properly on the TV.

Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [VIDEO OUT] ▶ [NTSC] / [PAL]
 ▶ “Menu” (P. 23)

? TIPS

TV video signal types & main regions

Check the video signal type before connecting the camera to the TV.

NTSC North America, Taiwan, Korea

PAL European countries, China

- The factory default setting varies depending on the region where you purchased this camera.

Copying pictures

This function lets you copy pictures to and from the xD-Picture Card and CompactFlash or Microdrive. This menu can be selected if both cards are inserted.

The selected card is the copying source. You can change the copying source by pressing the CF/xD (card) button. ▶ “Switching cards” (P. 40)

ALL Copies all the pictures on the card.

SELECT Copies only the selected picture.

Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [COPY] ▶ “Menu” (P. 23)

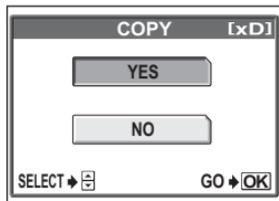
- Follow the procedure below when a movie is selected and the menu is displayed.
 Top menu ▶ [COPY]

1 Select [ALL] or [SELECT], and press

● If you choose [ALL]

A confirmation screen asking if you want to copy the pictures is displayed. Select [YES], and press .

- The pictures are copied and the menu is exited.
- To quit the copy function, select [NO] and press .



● If you choose [SELECT]

The playback screen is displayed. Turn the control dial to select the frame you want to copy and press .

- The picture is copied.
- If you want to copy more pictures, repeat the procedure.
- To finish copying, press .



Note

- Pictures cannot be copied to the same card.

Protecting pictures



You are recommended to protect important pictures to avoid accidentally erasing them. Protected pictures cannot be erased by the single-frame/all-frame erase function, but they are all erased by formatting.

Mode dial 



1 Select the picture you want to protect, and press the button.

-  "Direct buttons" (P. 16),
"Single-frame playback" (P. 99)
- To cancel protection, press the  button again.



Displayed when a picture is protected.

Erasing pictures



This function erases recorded pictures. Pictures can be erased either one at a time or all the pictures on the card.

! Note

- You cannot erase protected pictures. Cancel protection before erasing such pictures.
- Once erased, pictures cannot be restored. Check each picture before erasing to avoid accidentally erasing pictures you want to keep. "Protecting pictures" (P. 115)

Single-frame erase



Mode dial



1 Select the picture you want to erase, and press the button.

"Direct buttons" (P. 16),
"Single-frame playback" (P. 99)

- The ERASE] screen is displayed.



2 Select [YES], and press .

- The picture is erased and the menu is exited.
- To cancel single-frame erase, select [NO] and press or press the button again.

All-frame erase



This function erases all the pictures on the card.

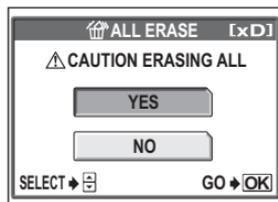
Mode dial



Top menu ▶ [MODE MENU] ▶ [CARD] ▶ [ALL ERASE] "Menus" (P. 23)

1 Select [YES], and press .

- All the pictures are erased.



Formatting

This function lets you format the memory card. Formatting prepares cards to receive data. Before using non-OLYMPUS cards or cards which have been formatted on a computer, you must format them with this camera.

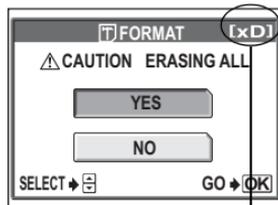
All existing data, including protected pictures, are erased when the card is formatted. Make sure that you save or transfer important data to a computer before formatting the card.



Top menu ▶ [MODE MENU] ▶ [CARD] ▶ [FORMAT]  "Menus" (P. 23)

1 Select [YES], and press .

- The [BUSY] bar is displayed while the card is formatted.



The card to be formatted is displayed.

Note

- Do not do any of the following during formatting as such actions may damage the card.

Open the card cover, remove the battery, or connect or disconnect the AC adapter (regardless of whether there is a battery in the camera or not).

Settings

One of the key features of a digital camera is that you can view the pictures you have taken immediately.

But that isn't all. Another advantage is that you can customize the camera to your own personal taste.

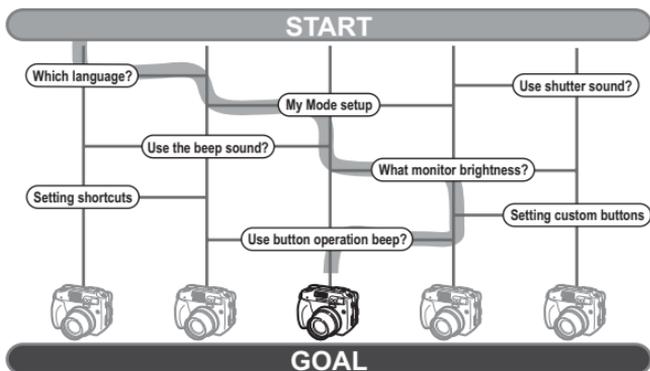
For example, you can set the startup screen so that one of the pictures you have taken is displayed when you turn the camera on.

That's originality for you!

And if you lend the camera to friends from abroad, you can select the appropriate language for on-screen display.

If you find it easier to press a button than going to the menu every time for a favorite function, set it on the custom button.

Making use of these functions will make such a difference to how much fun you get out of your camera. Why not try them out?



Now you have your very own customized camera!

Reset

This function returns the settings to the factory default settings.

Mode dial 

P A S M   **SCENE** 

- 1 Press the  and  buttons simultaneously for more than 3 seconds.

● Functions that are reset

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
FNo.	F2.8	P. 57		HQ	P. 33
SHUTTER	1/1000	P. 59		No compensation	P. 78
Program shift	Reset	P. 57	SCENE MODES	NORMAL	P. 80
	0.0	P. 73	MONITOR	ON (lights)	P. 20
Histogram target mark	Center	P. 85	Card	xD	P. 40
FLASH MODE	AUTO	P. 47	DRIVE		P. 89
	0.0	P. 51	BKT	±1.0, 3 pictures	P. 90
AF/  MF	AF	P. 46, 63, 66	ACCESSORY	OFF	P. 97
AF target mark	Center	P. 65	ISO	AUTO	P. 72
ESP/ 	ESP	P. 69	 FLASH	IN= 	P. 52
AE lock (MULTI METERING)	OFF	P. 71	SLAVE	1	P. 55
 /	OFF	P. 91, 94	 SLOW	 SLOW1	P. 51
FULLTIME AF	OFF	P. 63	WB	AUTO	P. 74
AF MODE	iESP	P. 63	NOISE REDUCTION	OFF	P. 82
 (still pictures)	OFF	P. 96	Optical zoom	Wide	P. 44
FUNCTION	OFF	P. 92	DIGITAL ZOOM	OFF	P. 45
	OFF	P. 83	SHARPNESS	±0	P. 80
FRAME ASSIST	OFF	P. 85	CONTRAST	±0	P. 81
 mode	OFF	P. 62	HUE	±0	P. 81

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
SATURATION	±0	P. 82	SHQ, HQ	3072 × 2304	P. 35
JPEG DUPLICATE SETTING	HQ	P. 38	SQ1	1600 × 1200 NORMAL	P. 35
TIFF	3072 × 2304	P. 35	SQ2	640 × 480 NORMAL	P. 35

All reset

This function lets you choose whether or not to save the current camera settings after the power is turned off. The settings affected by [ALL RESET] are listed on the next page.

The [ALL RESET] setting ([ON]/[OFF]) applies to all the modes. If [ALL RESET] is set to [OFF] in one shooting mode, this setting applies to all the other modes, both shooting and playback.

- ON** All settings are returned to the factory default settings after the power is turned off. (factory default setting)
 Ex: If [ALL RESET] is set to [ON] and [◀:▪] is changed to [SQ1], [◀:▪] returns to the factory default setting ([HQ]) when the camera is turned on again.
- OFF** The settings made before the power is turned off are saved.

Mode dial

P A S M   SCENE 

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [ALL RESET] ▶ [OFF] / [ON]
 "Menus" (P. 23)

Note

- My Mode settings and the settings in the [SETUP] tab in the [MODE MENU] ([ALL RESET], [◀:▪], [▶]) etc.) are saved even when [ALL RESET] is set to [ON].

● Functions that return to default settings when [ALL RESET] is set [ON].

Function	Factory default setting	Ref. page	Function	Factory default setting	Ref. page
FNo.	F2.8	P. 57	AF MODE	IESP	P. 63
SHUTTER	1/1000	P. 59	 (still pictures)	OFF	P. 96
Program Shift	Reset	P. 57	ACCESSORY	OFF	P. 97
	0.0	P. 73	FUNCTION	OFF	P. 92
FLASH MODE	AUTO	P. 47		OFF	P. 83
	0.0	P. 51		OFF	P. 62
AF/  MF	AF	P. 46, 63, 66		HQ	P. 33
ESP/ 	ESP	P. 69	WB	AUTO	P. 74
 /i	OFF	P. 91, 94		No compensation	P. 78
MONITOR*	ON (lights)	P. 20	SCENE MODES	NORMAL	P. 80
Card	xD	P. 40	SHARPNESS	±0	P. 80
Optical zoom	Wide	P. 44	CONTRAST	±0	P. 81
DRIVE		P. 89	HUE	±0	P. 81
BKT	±1.0, 3 pictures	P. 90	SATURATION	±0	P. 82
ISO	AUTO	P. 72	JPEG DUPLICATE SETTING	HQ	P. 38
 FLASH	IN+ 	P. 52	TIFF	3072 × 2304	P. 35
SLAVE	1	P. 55	SHQ, HQ	3072 × 2304	P. 35
 SLOW	 SLOW1	P. 51	SQ1	1600 × 1200 NORMAL	P. 35
NOISE REDUCTION	OFF	P. 82	SQ2	640 × 480 NORMAL	P. 35
DIGITAL ZOOM	OFF	P. 45	FRAME ASSIST	OFF	P. 85
FULLTIME AF	OFF	P. 63			

* This sets whether the monitor turns on or not when the camera is turned on in shooting mode.

Exposure steps

You can set adjustment of the exposure compensation and flash intensity in [1/3EV] or [1/2EV] steps. The exposure compensation, flash intensity, shutter speed and aperture settings will differ depending on the adjustment range you choose.

Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [EV STEP] ▶ [1/3EV] / [1/2EV]
☞ "Menus" (P. 23)

Selecting a language



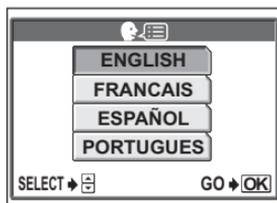
You can select a language for on-screen display. Available languages vary depending on the area where you purchased this camera.

Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [☞] ☞ "Menus" (P. 23)

1 Select a language, and press .



? TIPS

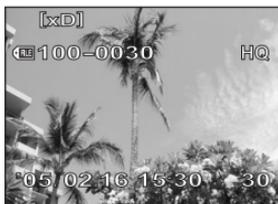
To increase the number of languages

→ You can add another language to your camera with the provided OLYMPUS Master software. For details, refer to the online help in the OLYMPUS Master software.

Setting the date and time



This function lets you set the date and time. The date and time is saved with each image, and is used in the file name.



Mode dial

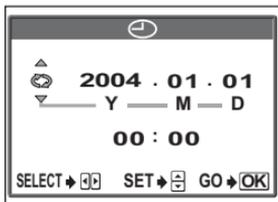
P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶

"Menus" (P. 23)

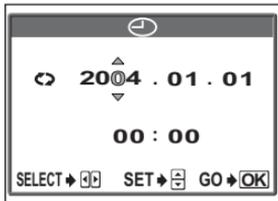
1 Select one of the following date formats: [Y-M-D] (Year/Month/Day), [M-D-Y] (Month/Day/Year), [D-M-Y] (Day/Month/Year), and press .

- Move to the year setting.
- The following steps show the procedure used when the date and time settings are set to [Y-M-D].



2 Press to set the year, and press to move to the month setting.

- To move back to the previous setting, press .
- The first two digits of the year are fixed.



3 Repeat this procedure until the date and time are completely set.

- The time is displayed in the 24-hour format. Consequently, 2 p.m. is displayed as 14:00.

4 Press .

- For a more accurate setting, press when the time signal hits 00 seconds.

Note

- The date and time settings will be returned to the factory default settings if the camera is left without the battery for approximately 3 days. The settings will be canceled more quickly if the battery was only loaded in the camera for a short time before being removed. Before taking important pictures, check that the date and time settings are correct.
- If the date and time setting is canceled, a warning is displayed on the monitor the next time the camera is turned on. "Error codes" (P. 174)

You can set shooting-related functions in My Mode. You can also save the current camera settings in My Mode.

When the mode dial is set to , your customized settings are activated.

“My Mode” (P. 62)

You can save up to 4 different patterns in [1 MY MODE 1] to [4 MY MODE 4]. Only [1 MY MODE 1] has a factory default setting.

● Functions that can be set in [MY MODE SETUP]

Function	Factory default setting	Ref. page	Function	Factory default setting	Ref. page
P, A, S, M, SCENE	P	P. 13		OFF	P. 91, P. 94
FNo.	F2.8	P. 57	DIGITAL ZOOM	OFF	P. 45
SHUTTER	1/1000	P. 59	NOISE REDUCTION	OFF	P. 82
	0.0	P. 73	FUNCTION	OFF	P. 92
MONITOR* ¹	ON	P. 20	ACCESSORY	OFF	P. 97
ZOOM* ²	27 mm	–	(still pictures)	OFF	P. 96
FLASH MODE	AUTO	P. 47	FRAME ASSIST	OFF	P. 85
	0.0	P. 51		OFF	P. 83
FLASH	IN+	P. 52		OFF	P. 62
SLOW	SLOW1	P. 51		HQ	P. 33
AF//MF	AF	P. 46, 63, 66	WB	AUTO	P. 74
AF MODE	iESP	P. 63	SCENE MODES	NORMAL	P. 80
FULLTIME AF	OFF	P. 63	SHARPNESS	±0	P. 80
DRIVE		P. 89	CONTRAST	±0	P. 81
ISO	AUTO	P. 72	HUE	±0	P. 81
ESP/	ESP	P. 69	SATURATION	±0	P. 82

*1 This sets whether the monitor turns on or not when the camera is turned on.

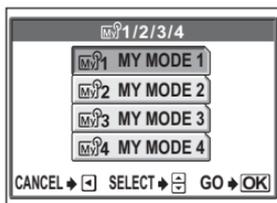
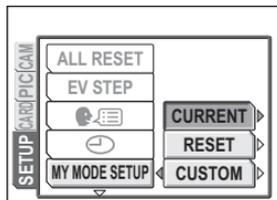
*2 In mode, the available zoom positions are 27 mm, 35 mm, 55 mm, 80 mm and 110 mm (these numbers are based on the focal length of a 35mm camera).

Mode dial  P A S M  SCENE

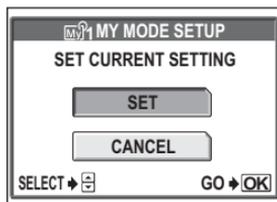
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [MY MODE SETUP]

 "Menu" (P. 23)**1** Select the type of [MY MODE SETUP], and press .**CURRENT** Saves the current camera settings.**RESET** Restores the factory default settings.**CUSTOM** Saves settings one by one.

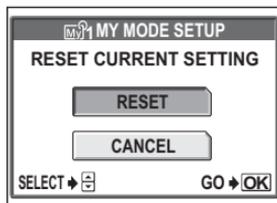
- The [My 1/2/3/4] screen is displayed.

2 Select a My Mode number, and press .**● If you selected [CURRENT] in Step 1****3** Select [SET], and press .

- The current camera settings are saved in the selected My Mode.

**● If you selected [RESET] in Step 1****3** Select [RESET], and press .

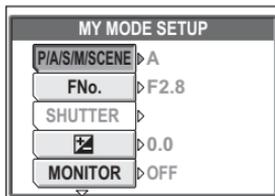
- The settings in the selected My Mode are reset.
If no settings are saved, My Mode settings cannot be selected.



● If you selected [CUSTOM] in Step 1

3 Select the function you want to save in My Mode, and press .

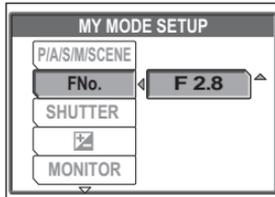
- For the available functions, see "Functions that can be set in [MY MODE SETUP]" (P. 124).



Change the setting, and press



- The setting is saved.
- You can also change the other custom settings.



4 When you have made all the settings you want, press .

- The screen in Step 2 is displayed.

Note

- Although the settings you are using can be saved in the [CURRENT] setting, the zoom position will be saved as the closest of the 5 zoom settings in [MY MODE SETUP].

Sound

You can set the tone and volume of sounds made by the camera.

Button operation beep

You can choose from 2 different sounds for button operations. You can also set the volume of the sound to [LOW] or [HIGH]. You can turn the sound off completely by setting [OFF].

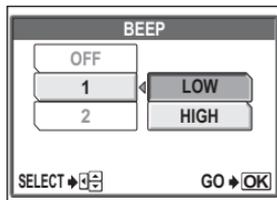
Mode dial

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SOUND] ▶ [BEEP]

 "Menus" (P. 23)

- 1** Select [OFF], [1] or [2]. If you selected [1] or [2], select [LOW] or [HIGH], and press .



Note

- Selecting [1] or [2] does not change the tone of the focus sound, but the volume changes according to [OFF], [LOW], and [HIGH].

Shutter sound

You can choose from 2 different sounds for the shutter button. You can also set the volume of the sound to [LOW] or [HIGH]. You can turn the sound off completely by setting [OFF].

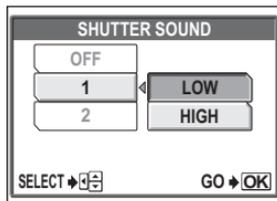
Mode dial

P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SOUND] ▶ [SHUTTER SOUND]

 "Menus" (P. 23)

- 1** Select [OFF], [1] or [2]. If you selected [1] or [2], select [LOW] or [HIGH], and press .



Beep



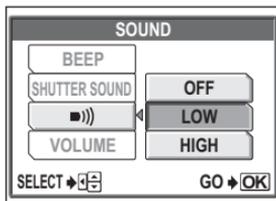
You can adjust the volume of the beep sound used for warnings. Choose from [LOW] or [HIGH]. You can turn the sound off completely by setting [OFF].

Mode dial P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SOUND] ▶ [Beep]

“Menu” (P. 23)

- 1 Select [OFF], [LOW] or [HIGH], and press .



Playback volume

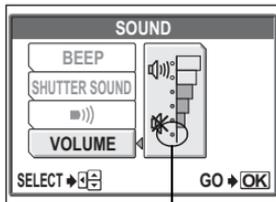
You can adjust the sound volume of still pictures and movies as well as the volume of the sound generated when the power is turned on and off. There are 5 levels to choose from.

Mode dial P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SOUND] ▶ [VOLUME]

“Menu” (P. 23)

- 1 Press to set the volume, and press .



Selecting this level will mute the sound completely.

Power on/off setup

You can select a picture and/or sound to be displayed/output when the power is turned on and off. You can also register your favorite picture and display it on the screen. “Screen setup” (P. 129)

Mode dial

P A S M



SCENE

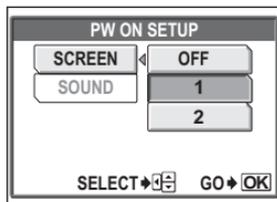
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PW ON/OFF SETUP] ▶ [PW ON SETUP] / [PW OFF SETUP]

“Menus” (P. 23)

1 From [SCREEN], select [OFF], [1] or [2], and press .

OFF No picture is displayed (factory default setting).

- 1 A picture is displayed.
- 2 The registered picture is displayed. If there is no registered picture, nothing is displayed.



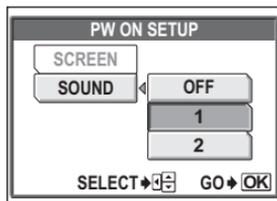
[PW ON SETUP] screen

2 From [SOUND], select [OFF], [1] or [2], and press .

OFF No startup/shutdown sound is output (factory default setting).

- 1 / 2 Startup/shutdown sound is output.
- The volume level is the same as that set for the playback volume.

“Playback volume” (P. 128)



[PW ON SETUP] screen

3 Press .

Screen setup

You can register your favorite picture for display when the power is turned on and off. Register a picture from the pictures saved on the card and use [PW ON SETUP] and [PW OFF SETUP] to display it on the startup/shutdown screen. “Power on/off setup” (P. 129)

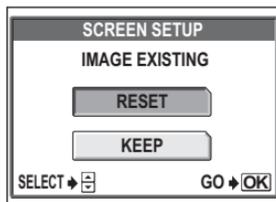
Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PW ON/OFF SETUP] ▶ [SCREEN SETUP] ▶ [PW ON] / [PW OFF]

“Menus” (P. 23)

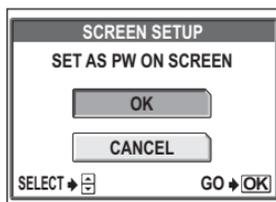
- If a picture is already registered, the [IMAGE EXISTING] screen is displayed asking if you want to cancel the currently registered picture and register a new one. To register a new picture, select [RESET], and press . If you select [KEEP], the screen returns to the menu.



1 Select the picture you want to register, and press .

2 Select [OK], and press .

- The picture is registered and the screen returns to the menu.



Registering a picture for the [PW ON] screen

! Note

- You cannot register a picture that cannot be played back on this camera.

Monitor brightness adjustment

This function lets you adjust the brightness of the monitor to make it easier to see the image.



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ []

"Menus" (P. 23)

1 Adjust the brightness while looking in the monitor, and when you have set the desired level, press .

- Pressing brightens the monitor, and pressing darkens it.



Rec view

You can choose whether or not to display the picture you have just taken on the monitor.

- OFF** The picture being recorded to the card is not displayed. This is useful when you want to prepare for your next shot while the previous picture is being recorded.
- AUTO** The picture being recorded to the card is displayed. This is useful for making a brief check of the picture you have just taken. Pressing the shutter button halfway during Rec View lets you resume shooting immediately.
- 3SEC, 5SEC, 10SEC** The duration the picture is displayed.

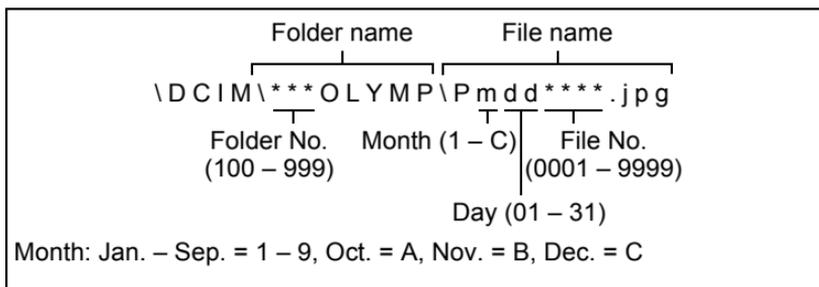
Mode dial



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [REC VIEW] ▶ [OFF] / [AUTO] / [3SEC] / [5SEC] / [10SEC] "Menu" (P. 23)

File name

The camera automatically creates file names and folder names for images to be stored in. Files can be numbered from 0001 to 9999 and folders can be numbered from 100 to 999. Examples are shown below.



There are two settings from which you can choose: [RESET] or [AUTO]. Choose the one that is best for you when transferring images to a computer.

- 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. This method is useful when grouping files on separate cards.
- AUTO** Even if a new card is inserted, the folder number and file number are retained from the previous card, so the same file number is not used on different cards. This helps you to manage multiple cards. This method is useful when you want to manage all your files with sequential numbers.

Mode dial  P A S M   SCENE 

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [FILE NAME] ▶ [RESET] / [AUTO]
 "Menu" (P. 23)

Note

- When the File No. reaches 9999, the file number returns to 0001 and the folder number changes.
- When both the Folder and File No. reach their respective maximum number (999/9999), the number of storable pictures becomes 0 even if the card is not full. No more pictures can be taken. Replace the card with a new one.

Pixel mapping

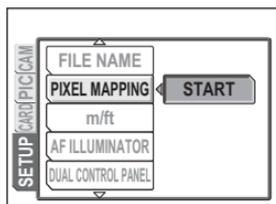
The pixel mapping feature allows the camera to check and adjust the CCD and image processing functions. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait at least one minute after taking or viewing pictures to allow for proper performance of the pixel mapping function.

Mode dial  P A S M   SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PIXEL MAPPING]
 "Menu" (P. 23)

1 When [START] is displayed, press .

- The [BUSY] bar is displayed during pixel mapping. When pixel mapping is finished, the screen returns to the mode menu.



Note

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

The measurement unit can be selected from either meters or feet in the manual focus mode.

- m** At long ranges, the camera measures in meters, and at short ranges in centimeters.
- ft** At long ranges, the camera measures in feet, and at short ranges in inches.

Mode dial

P A S M  SCENE 

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [m/ft] ▶ [m] / [ft]

 "Menu" (P. 23)

Dual control panel

This function lets you display control panel indications more clearly on the monitor in shooting mode.



Mode dial

P A S M   SCENE 

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [DUAL CONTROL PANEL] ▶ [ON] / [OFF]

 "Menu" (P. 23)

? TIPS

- Press  to change the display on the dual control panel.  "Direct buttons" (P. 16)

! Note

- The subject is displayed on the monitor when using functions that use the monitor such as macro shooting or digital zoom.

USB

Before connecting the USB cable, set the camera to either PC or printer, whichever you intend to connect the camera to.

PC Select when connecting the camera to a PC with the USB cable and transferring pictures to the PC. “Connecting the camera to a computer” (P. 164)

PRINT Select when connecting the camera to PictBridge-compatible printer with the USB cable. Pictures can be printed directly without using a PC. “Connecting the camera to a printer” (P. 142)

Mode dial

P A S M **SCENE**

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [USB] ▶ [PC] / [PRINT]

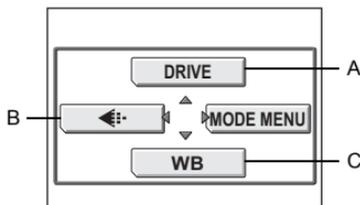
“Menus” (P. 23)

Shortcut

You can set three shortcut menus (A, B, C) on the top menu in the still picture shooting mode (**P**, **A**, **S**, **M**, , **SCENE**).

This is useful when you want to go quickly to frequently used functions.

Top menu



Factory default setting
A: DRIVE
B:
C: WB

Functions that can be assigned to the shortcut menus	Ref. page	Functions that can be assigned to the shortcut menus	Ref. page
DRIVE	P. 89	FRAME ASSIST	P. 85
ISO	P. 72		P. 83
FLASH MODE	P. 47		P. 62
AF//MF	P. 46, 63, 66	1/2/3/4	P. 62

Functions that can be assigned to the shortcut menus	Ref. page	Functions that can be assigned to the shortcut menus	Ref. page
AF MODE	P. 63	SCENE	P. 42
FULLTIME AF	P. 63	◀-•	P. 33
SPOT/📷	P. 69	WB	P. 74
🌞/🌙	P. 91, 94	SCENE MODES	P. 80
DIGITAL ZOOM	P. 45	SHARPNESS	P. 80
NOISE REDUCTION	P. 82	CONTRAST	P. 81
FUNCTION	P. 92	HUE	P. 81
ACCESSORY	P. 97	SATURATION	P. 82
🎤 (still pictures)	P. 96		

Setting the shortcut menus

You can set the three shortcut menus designated by A, B and C on the top menu.

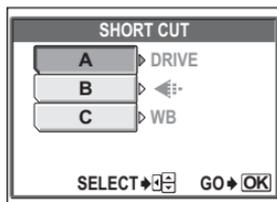
Mode dial



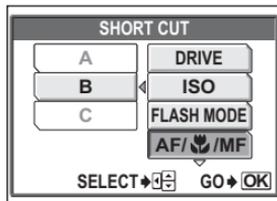
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SHORT CUT]

👉 "Menus" (P. 23)

1 Select [A], [B], or [C], and press



2 Select a function, and press



! Note

- You cannot set different shortcut menus in each mode.

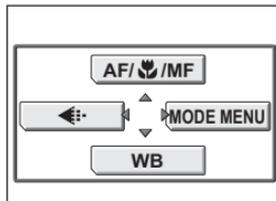
Using the shortcut menus

When you have set a shortcut menu, you can use it to jump to the setting screen for that function.

Mode dial  P A S M  SCENE

1 Press to display the top menu.

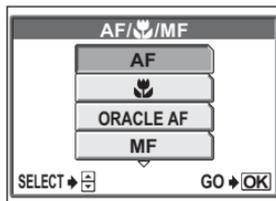
- The shortcut menus you have set are displayed on the top menu.



When [AF/🌻/MF] is set in shortcut menu [A]

2 Select a shortcut menu.

- The monitor jumps directly to the setting screen for that function.



Custom button



Assigning a function to the custom button makes it easy to jump straight to the setting screen for that function simply by pressing the custom button, without having to go to the menu first.

Selecting a setting with the control dial and pressing  displays a dedicated screen for that setting. You can make fine settings using the arrow pad and .

Functions that can be assigned to the custom button	Options	Ref. page
DRIVE	 HI  ,  , AF  , BKT	P. 89
ISO	AUTO, 80 – 400	P. 72
 FLASH	IN+  ,  , SLAVE	P. 52
 SLOW	 SLOW1,  SLOW,  SLOW2	P. 51

Functions that can be assigned to the custom button	Options	Ref. page
FULLTIME AF	OFF, ON	P. 63
DIGITAL ZOOM	OFF, ON	P. 45
NOISE REDUCTION	OFF, ON	P. 82
FUNCTION	OFF, PANORAMA, BLACK & WHITE, SEPIA	P. 92
(still pictures)	OFF, ON	P. 96
(movies)	OFF, ON	P. 97
FRAME ASSIST	OFF, 1, 2	P. 85
	OFF, ON, ON, DIRECT	P. 83
MY MODE	1 – 4	P. 62
	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P. 33
WB	AUTO, PRESET1, PRESET2, CUSTOM,	P. 74
SCENE MODES	NORMAL, , ,	P. 80
SHARPNESS	-5 – ±0 – +5	P. 80
CONTRAST	-5 – ±0 – +5	P. 81
HUE	-5 – ±0 – +5	P. 81
SATURATION	-5 – ±0 – +5	P. 82

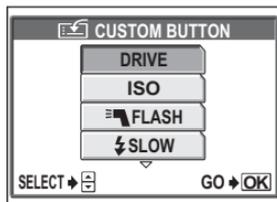
Setting the custom button

Mode dial

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [CUSTOM BUTTON]

"Menus" (P. 23)

1 Select a function, and press .



Note

- You cannot assign different functions in each mode.

Using the custom button

Mode dial  P A S M  SCENE

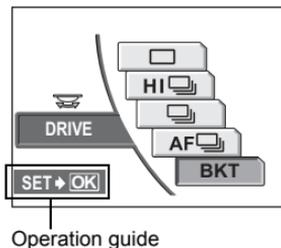
1 Press the button.

- The function currently set to the custom button is displayed.

2 Turn the control dial to set.

- The  button is used in the same way as the direct button.  “Direct buttons” (P. 16)
- When an operation guide is displayed at the bottom of the screen, more specific settings can be made.

Ex.: When [DRIVE] is set to the  button.



Dial

You can change the function of the control dial and direct buttons.

- NORMAL** The menu is displayed after pressing the direct button once. Turn the control dial to make settings. Press the direct button again to return to the shooting screen.
- CUSTOM1** The settings are changed by pressing the direct button repeatedly. Only the direct button is used. The camera automatically closes the menu after 3 seconds of non-operation.
- CUSTOM2** The menu is displayed only while the direct button is kept depressed. Turn the control dial while holding down the direct button to make settings.

Mode dial

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [DIAL] ▶ [NORMAL] /
[CUSTOM1] / [CUSTOM2] "Menu" (P. 23)

Note

- If you selected [CUSTOM1], use the arrow pad to operate the following functions.
 - Exposure compensation (**P, A, S, SCENE, My** mode): "Exposure compensation" (P. 73)
 - Shutter speed (**S, M** mode): "Shutter priority shooting" (P. 59)
 - Aperture value (**A, M** mode): **A** mode , **M** mode "Aperture priority shooting" (P. 57)
- The function of the control dial and arrow pad varies depending on the shooting mode and not the dial setting.
- Setting [CUSTOM 1] prevents you setting certain functions to the direct buttons. Use the menu when making settings for these functions.

My Mode/SCENE selection screen

This setting displays the selection screen (My Mode or SCENE) automatically on the monitor when the mode dial is set to or **SCENE**. This is useful when you want to change to a different SCENE or My Mode setting while shooting.

- ON** The My Mode menu is displayed when the mode dial is set to . The SCENE mode menu is displayed when the mode dial is set to **SCENE**.
- OFF** The selection screen is not displayed when the mode dial is set to or **SCENE**.

Mode dial

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [/SCENE] ▶ [ON] / [OFF]
 "Menu" (P. 23)

TIPS

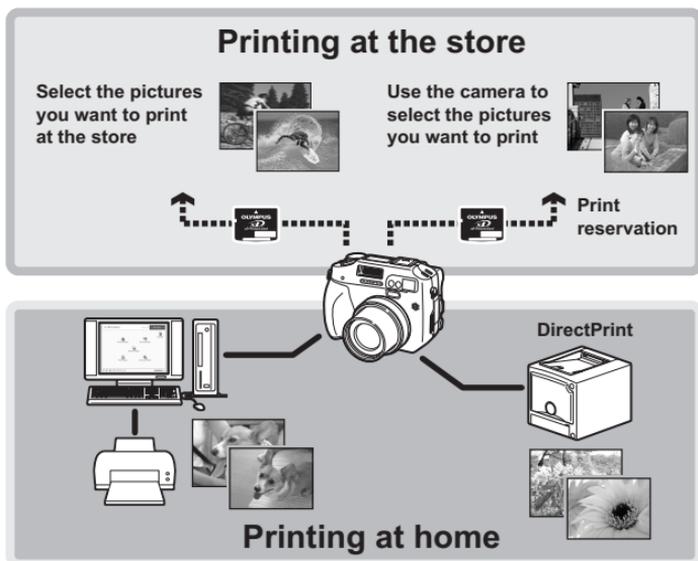
- You can also use the menu to change My Mode or SCENE settings. "My Mode" (P. 62), "Selecting a shooting mode according to the situation" (P. 42)

Printing pictures

You can print out the pictures you have taken either at a photo store or at home on your own printer.

If you go to a photo store, it is a good idea to store the print reservation data on the card first. This lets you select the pictures you want to print and decide how many prints you want.

If you print the pictures at home, you can either connect the camera directly to the printer or you can connect the camera to a computer and download the pictures to the computer first.



Direct printing (PictBridge)

Using the direct printing function

By connecting the camera to a PictBridge-compatible printer with the USB cable, you can print out recorded pictures directly. With the camera connected to the printer, select the pictures you want to print and the number of prints on the camera's monitor. It is also possible to print out pictures using the print reservation data.

 "Print settings (DPOF)" (P. 151)

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

What is PictBridge?... It is the standard for connecting digital cameras and printers of different manufacturers and printing out pictures directly.

STANDARD... All printers that support PictBridge have standard print settings. If [STANDARD] is selected on the settings screens ( P. 143 to P. 147), images are printed according to these settings. Refer to the printer's instruction manual for its standard settings or contact the printer manufacturer.

TIPS

- For details of usable paper types, and how to set ink cassettes, paper, etc., refer to the printer's instruction manual.

Note

- You are recommended to use the optional AC adapter when printing pictures. If you use the battery, make sure that it is fully charged. If the camera stops operating while communicating with the printer, the printer may malfunction or image data may be lost.
- Raw data and images recorded in movie mode cannot be printed.
- The camera will not enter sleep mode when connected to the USB cable.

Connecting the camera to a printer

Use the USB cable provided to connect the camera to a PictBridge-compatible printer.

Mode dial

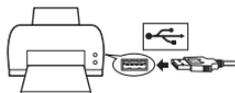


1 Set the camera's [USB] mode to [PRINT].

☞ "USB" (P. 134)

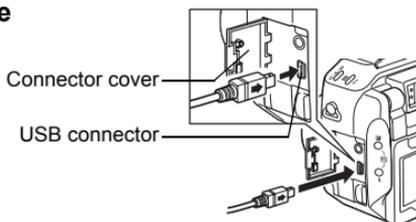
- Have the card containing the pictures you want to print selected.

2 Turn the printer on, and plug the USB cable into the printer's USB port.



- For details of how to turn the printer on and the position of the USB port, refer to the printer's instruction manual.

3 Plug the USB cable into the camera's USB connector.



4 Turn the camera on.

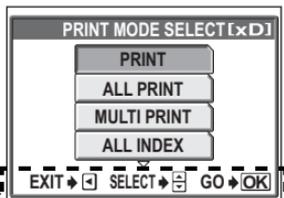
- [ONE MOMENT] is displayed and the camera and printer are connected. The [PRINT MODE SELECT] screen is displayed on the monitor. Make the print settings on the camera's monitor. ☞ Go to "Printing pictures" (P. 143)

! Note

- When the [USB] mode is set to [PC], the [PRINT MODE SELECT] screen is not displayed. Disconnect the USB cable, and repeat the procedure from Step 1.

Printing pictures

When the camera is connected to a PictBridge-compatible printer, the [PRINT MODE SELECT] screen is displayed on the monitor. Use this screen to select the print mode. You can choose from the following print modes.



Operation guide

[PRINT MODE SELECT] screen

PRINT	Prints the selected picture.
ALL PRINT	Prints all the pictures stored on the card.
MULTI PRINT	Prints one picture in multiple layout format.
ALL INDEX	Prints an index of all the pictures stored on the card.
PRINT ORDER	Prints the pictures according to the print reservation data on the card. If no print reservations have been made, this option is not available. "Print settings (DPOF)" (P. 151)

Print modes and settings

Available printing modes, paper sizes etc., vary depending on the printer you use. Refer to the instruction manual for your printer.

Easy printing

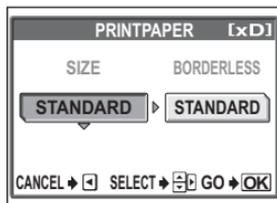
The method described below is the easiest way to print out pictures. The selected picture is printed using standard settings without the date, time or file name.

[PRINT MODE SELECT] screen ▶ [PRINT]

"Menus" (P. 23)

1 Press without changing the [SIZE] or [BORDERLESS] settings.

- When the [PRINTPAPER] screen is not displayed, go to Step 2.
- For details of the available paper sizes and border settings, see "Setting the size and border" (P. 144).



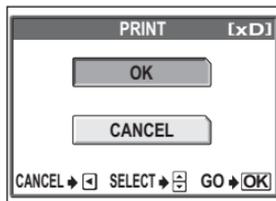
2 Press or turn the control dial to select the picture you want to print, and press .

- The [PRINT] screen is displayed.



3 Select [OK], and press .

- Printing starts.
- To cancel printing, select [CANCEL] and press . The [PRINT MODE SELECT] screen is displayed.
- When printing is finished, the screen returns to Step 2. Repeat Steps 2 and 3 and print all the pictures you want to print.

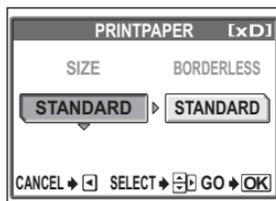


● Setting the size and border

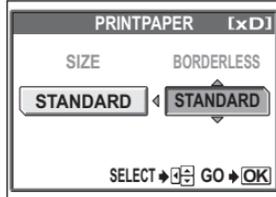
Select the paper size and border on the [PRINTPAPER] screen.

- SIZE** Choose from the available paper sizes on your printer.
- BORDERLESS** Select framed or unframed. In [MULTI PRINT] mode, you cannot select the frame.
- WITH**  The image is printed inside a blank frame.
- WITHOUT**  The image is printed filling the entire page.
- PICS/SHEET** Available in [MULTIPRINT] mode only. The number of prints that can be printed vary depending on the printer.

1 Select the paper size on the [PRINTPAPER] screen, and press .



2 Select framed or unframed, and press . In [MULTI PRINT] mode, select the number of pictures per sheet, and press .



Note

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

Printing by selecting a print mode

You can select the print mode on the [PRINT MODE SELECT] screen. The available settings vary depending on the selected print mode.

[PRINT MODE SELECT] screen ▶ [PRINT] / [ALL PRINT] / [MULTI PRINT] / [ALL INDEX] / [PRINT ORDER]  "Menu" (P. 23)

1 Select the item you want to set on the [PRINTPAPER] screen, and press .

 "Setting the size and border" (P. 144)

- In [MULTI PRINT] mode, select the number of pictures per sheet instead of framed or unframed.
- [BORDERLESS] is not available in [ALL INDEX] mode.
- If the [PRINTPAPER] screen is not displayed, [STANDARD] settings apply.

[PRINT] mode / [MULTI PRINT] mode: →Go to Step 2.

[ALL PRINT] mode: →Go to Step 4.

[ALL INDEX] mode / [PRINT ORDER] mode: →Go to Step 6.

2 Press or turn the control dial to select the picture you want to print, and press .

- Push the zoom lever toward W to display the pictures in index format. You can select the pictures you want to print from the index.



3 Select the print reservation method.

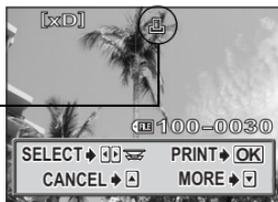
SINGLE PRINT Makes a single-frame print reservation for the selected picture according to standard print settings.

MORE Sets the number of prints of the selected picture in the print reservation data. You can also add the date or file name, and trim the picture.

● Set a [SINGLE PRINT] reservation

① Press .

- Press  again when a picture with  is displayed to cancel the reservation. Print reservation icon is displayed.



② Go to Step5.

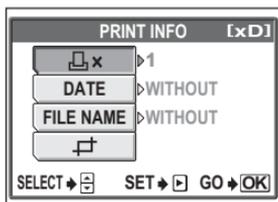
● Set [MORE] print reservations

① Press .

② Select the printing data that you want included by pressing , and then set each item.



Sets the number of prints. You can select up to 10 prints.



DATE (🕒)

If you select [WITH], pictures are printed with the date and time.

FILE NAME (📁)

If you select [WITH], pictures are printed with the file name.



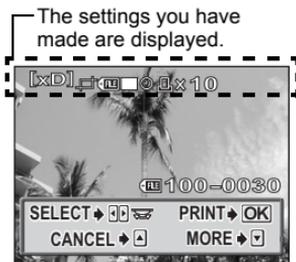
Crops part of a recorded picture so that only the enlarged section is printed.  "Trimming" (P. 148)

- [DATE] and [FILE NAME] are not available in [MULTI PRINT] mode.

③ When you have completed setting the printing data, press .

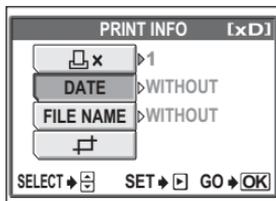
- The screen in Step 2 is displayed.
- To print more than one picture in [PRINT] or [MULTI PRINT] mode, repeat the [SINGLE PRINT] and [MORE] reservations in Steps 2 and 3 for all the pictures you want to print.
-  is displayed in [MULTI PRINT] mode.

④ Go to Step 5.



4 Select the printing data, and press to set each item.

- If printing data cannot be set for your printer, the [PRINT INFO] screen is not displayed. Go to Step 6.
- Only one print of each image can be made at a time.



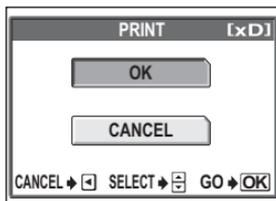
DATE  If you select [WITH], pictures are printed with the date and time.

FILE NAME  If you select [WITH], pictures are printed with the file name.

5 Press .

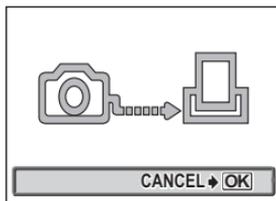
6 Select [OK], and press .

- Printing starts.
 - When printing is finished, the monitor returns to the [PRINT MODE SELECT] screen.
-  “Exiting direct printing” (P. 149)

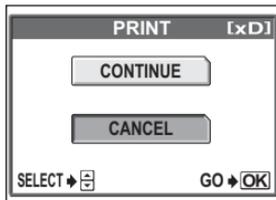


● To cancel printing

Pressing  during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, select [CANCEL], and press .



Screen during data transfer



Trimming



To trim a picture by [MORE] in [PRINT] or [MULTI PRINT] mode, follow the procedure below.

1 Use the arrow pad and zoom lever to select the trimming position and size.

- Press to move the trimming frame.
- Move the zoom lever toward W or T to select the trimming size from small horizontal frame, large horizontal frame, small vertical frame, and large vertical frame.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 3,072 × 2,048.
- If trimming has already been performed, the screen is displayed. Select [RESET] and press .



2 Press .

3 Select [OK], and press .

- OK** Saves the current trimming size.
- RESET** Sets a new trimming size.
→ Repeat the procedure from Step 1.
- CANCEL** Cancels the current trimming setting.



- Press to complete trimming and return to the [PRINT INFO] screen.

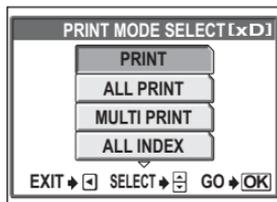
Note

- The size of the printed picture varies depending on the printer settings. If the trimmed picture is small, printing magnification increases the picture accordingly, resulting in a printed picture with lower resolution.
- For the best results with enlarged prints, you are recommended to use [TIFF], [SHQ] or [HQ] mode.

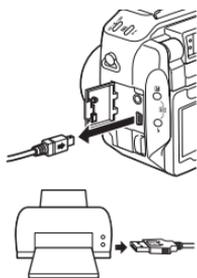
Exiting direct printing

When you have finished printing, disconnect the camera from the printer.

- 1 In the [PRINT MODE SELECT] screen, press .
 - "TURN OFF THE POWER" is displayed.



- 2 Turn off the camera.
- 3 Remove the USB cable from the camera.
- 4 Remove the USB cable from the printer.



If an error code is displayed

If an error code is displayed on the camera's monitor during direct print setting or printing, see the following table.

For more details, refer to the printer's instruction manual.

Monitor indication	Possible cause	Corrective action
 NO CONNECTION	The camera is not connected to the printer correctly.	Disconnect the camera and connect it again correctly.
 NO PAPER	There is no paper in the printer.	Load some paper in the printer.
 NO INK	The printer has run out of ink.	Replace the ink cartridge in the printer.
 JAMMED	The paper is jammed.	Remove the jammed paper.
SETTINGS CHANGED	The printer's paper cassette has been removed or the printer configuration has been changed.	Do not reconfigure the printer after the settings have been made.
 PRINT ERROR	A printer error has occurred.	Turn off the camera and printer. Check the printer and remedy any problems before turning the power on again.

? TIPS

- If an error code other than those shown above is displayed, see "Error codes" (P. 174).



How to make print reservations

Print reservation allows you to save printing data (the number of prints and the date/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. You can print out pictures automatically, at home or at a photo store, by storing data, such as which pictures you want to print and the number of prints, on the card.

Pictures with print reservations can be printed using the following procedures.

Printing at a DPOF-compatible photo store.

You can have your pictures printed according to the print reservation data.

Printing using a DPOF-compatible printer.

Printing is possible directly from a card containing print reservation data without using a computer. For more details, refer to the printer's instruction manual. A PC card adapter may also be necessary.

TIPS

Relation between printing and record mode when shooting

The resolution of a computer/printer is generally based on the number of dots (pixels) per inch (dpi). The higher the dpi value, the better the printed results. Keep in mind, however, that the dpi of the picture does not change. This means that when you print an image with a higher resolution, the size of the printed picture will be smaller. Although you can print magnified images, picture quality will decrease.

If you want to print large, high-quality pictures, set the record mode as high as possible when taking the pictures.  "Record mode" (P. 33)

Note

- 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.
- If there is not enough space in the card memory, you may not be able to enter the reservation data. [CARD FULL] will be displayed.
- You can make DPOF print reservations for up to 999 images per card.
- Even if an image is displayed with the message [PICTURE ERROR], it may be possible to make print reservations. In this case, the print reservation icon () is not displayed when the image is displayed for full view.  is displayed when there are multiple images (index display), allowing you to confirm the print reservation.
- Not all functions may be available on all printers or at all photo stores.
- Some TIFF images cannot be printed.
- You cannot make DPOF print reservations for images saved in raw data format.
- Saving images with print reservation data may take longer than usual.

All-frame reservation/Single-frame reservation

You can select all-frame reservation or single-frame reservation.

-  Makes print reservations for all the pictures stored on the card. Select the desired number of prints and whether you want the date and time included.
-  Use this feature to print only selected pictures. Display the picture you want to print and select the number of prints, whether you want the date and time included, and whether you want to trim the picture.

Mode dial 

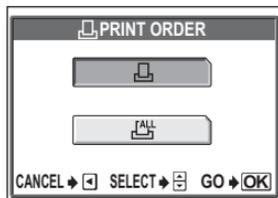
**1 Press the  button.**

 "Direct buttons" (P. 16)

- You cannot make print reservations for pictures with .
- If reserved image data is already stored on the card, a screen giving you the choice of keeping or erasing the data is displayed.

2 Select [1] or [ALL], and press .

- [1] → Go to Step 3.
- [ALL] → Go to Step 5.



3 Select the frame you want to print using the arrow pad or control dial, and press .



4 Select the appropriate item according to the print reservation that you want to make.

MORE Sets the number of prints and date/time printing data, and trims the picture. Proceeds to Step 5.

SINGLE PRINT Sets the number of prints to 1, and returns to Step 3. Date/time printing and trimming are not available.

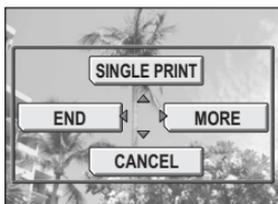
CANCEL Cancels the print reservation for the displayed picture.

END Exits the print reservation function.

 "To exit single-frame reservation" (P. 154)

5 Select [1x] (number of prints), [DATE] (date/time) or [TRIM] (trimming), and press .

- [TRIM] is not available for all-frame reservation.



Single-frame reservation screen



Single-frame reservation screen

6 Perform each setting.

● Set the number of prints

Select the number of prints and press .

 : Increases the number.

 : Decreases the number.



● Set the date/time printing data

Select [NO], [DATE] or [TIME], and press .

NO The pictures are printed without the date and time.

DATE All the selected pictures are printed with the shooting date.

TIME All the selected pictures are printed with the shooting time.



● Trim the picture

 "Trimming" (P. 155)

7 After setting the number of prints and date/time printing data, and trimming the picture, press to complete print reservations.

- The  icon is displayed on the picture.
- If you made all-frame reservations, the screen returns to the playback screen.
- If you made single-frame reservations, the screen returns to Step 3. Repeat Steps 3 to 7 to make print reservations for other images.

Print reservation icon



● To exit single-frame reservation

Select [END] on the single-frame reservation menu to return to the [PRINT ORDER] screen. Follow the operation guide and return to the playback screen.

Trimming



This function enables you to crop part of a recorded picture and print out the enlarged section only.

Mode dial



1 Select [Trimming] on the single-frame reservation screen and press [OK].

☞ “All-frame reservation/Single-frame reservation” (P. 152)

- If trimming has already been performed, the [Trimming] screen is displayed. Select [RESET], and press [OK].



2 Use the arrow pad, zoom lever, and control dial to control the trimming position and size.

- Press [Left], [Right], [Up], [Down] to move the trimming frame.
- Move the zoom lever toward W or T to select the trimming size from small horizontal frame, large horizontal frame, small vertical frame, and large vertical frame.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 3,072 × 2,048.



3 Press [OK].

4 Select [OK], and press [OK].

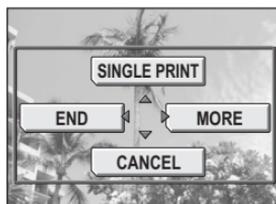
- OK** Saves the current trimming size. Returns to the single-frame reservation screen.
- RESET** Sets a new trimming size.
→ Repeat the procedure from Step 2.
- CANCEL** Cancels the current trimming setting. Returns to the single-frame reservation screen.



5 Press  to complete the print reservations and return to the picture selection screen, then press  again.

6 Press  to select [END].

- The [ PRINT ORDER] screen is displayed. Follow the operation guide to return to the playback screen.



Note

- The size of the printed picture varies depending on the printer settings. If the trimmed picture is small, printing magnification increases the picture accordingly, resulting in a printed picture with lower resolution.
- For the best results with enlarged prints, you are recommended to use the [TIFF], [SHQ] or [HQ] mode.
- The original picture is not trimmed. If your printer does not have the trimming function, the picture will be printed untrimmed.
- Do not rotate pictures that have been trimmed. Doing so could change the cropped area.

Resetting print reservation data

This function allows you to reset the print reservation data for pictures stored on the card.

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

To reset the print reservation data for all the pictures

Mode dial 

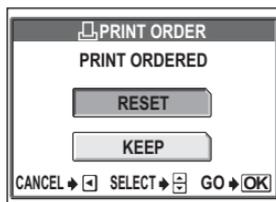


1 Press the  button.

-  "Direct buttons" (P. 16)

2 Select [RESET], and press .

- If there is no print reservation data stored on the card, the [ PRINT ORDER] screen is not displayed.
- Press  to return to the playback screen.

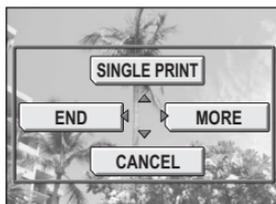
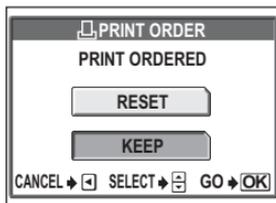


● To reset the print reservation data for a selected picture

Mode dial



- 1 Press the button.
 - ☞ “Direct buttons” (P. 16)
- 2 Select [KEEP], and press .
 - If there is no print reservation data stored on the card, the PRINT ORDER] screen is not displayed.
- 3 Select , and press .
- 4 Select the frame you want to cancel print reservations for using the arrow pad or control dial, and press .
 - The single-frame reservation menu is displayed.
- 5 Select [CANCEL].
 - The print reservation data is canceled, and the screen returns to Step 4.
- 6 If you are finished resetting print reservation data, press .
 - The single-frame reservation menu is displayed.
- 7 Select [END].
 - The PRINT ORDER] screen is displayed. Follow the operation guide to return to the playback screen.



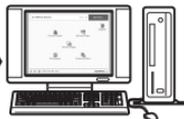
Connecting the camera to a computer

Viewing the pictures you have taken on your computer is just one of the many ways you can enjoy your pictures.

You can print out your favorite pictures, use the application software to download your pictures from your camera and edit them or arrange them by date or category, or attach them to e-mail and send them over the Internet.

There are all kinds of ways you can use your pictures with a computer. You can run a slideshow, post your pictures on your home page, create an album, or set your favorite picture as your desktop wallpaper.

Upload pictures



Share with friends



E-mail

Print pictures

Home printing



Online printing



Edit pictures



Panorama building



Album making



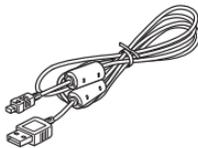
Wallpaper

Flow

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.



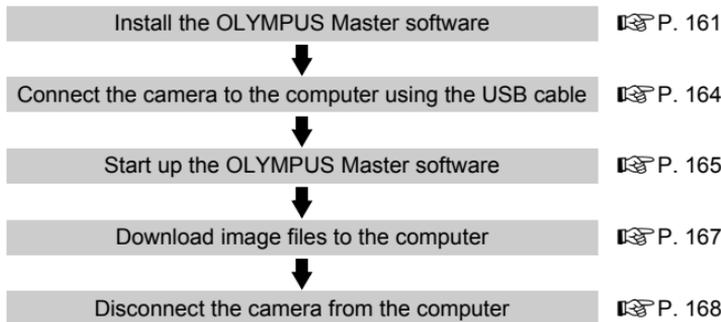
OLYMPUS Master CD-ROM



USB Cable



Computer equipped with a USB port



? TIPS

Viewing and editing downloaded images

→ If you want to process images using graphics applications, make sure you download the images to your computer first. Depending on the software, the image files may be damaged if the images are processed (rotated, etc.) while they are still on the card.

When the data cannot be downloaded from the camera using the USB cable

→ Image files may be downloaded using the optional PC card adapter. For details, visit the Olympus web site at the address shown on the back cover of this manual.

! Note

- It is recommended that you use the optional AC adapter when connecting the camera to a computer. If you use the battery, make sure that it is sufficiently charged. The camera does not turn off automatically while it is connected to (communicating with) a computer. If the battery power runs out, the camera will stop whatever operation it is performing. This may result in a computer malfunction, or loss of image data (file) being transmitted.
- Do not turn the camera off while it is connected to the computer. Doing so could cause the computer to malfunction.
- Connecting the camera to a computer via a USB hub may cause unstable operation if there is any problem with compatibility between the computer and the hub. In this case, do not use a hub, but connect the camera directly to the computer.

Using OLYMPUS Master

For editing and managing image files, install the OLYMPUS Master software from the provided CD-ROM.

What is OLYMPUS Master?

OLYMPUS Master is application software for editing images taken with a digital camera on a computer. Installing it on your computer lets you do the following:

Download images from the camera or other media

View images and movies

You can run a slideshow and play back sound.

Manage images

You can organize your images using the calendar display. Search the image you want by date or keyword.

Edit images

You can rotate images, trim them and change the size.



Edit images with the filter and correction functions

Print images

You can print images and make indexes, calendars and postcards.

Make panoramic images

You can make panoramic images using pictures taken in panorama mode.

View pictures taken in raw data format

For details of functions and operations other than the above, refer to the "Help" guide and OLYMPUS Master reference manual.

Installing OLYMPUS Master

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

OS	Windows 98SE/Me/2000 Professional/XP
CPU	Pentium III 500 MHz or later
RAM	128 MB or more (at least 256 MB is recommended)
Hard disk capacity	300 MB or more
Connector	USB port
Monitor	1,024 × 768 pixels, 65,536 colors or more



Note

- Data transfer is only guaranteed on computers with a factory installed OS.
- To install the software in Windows 2000 Professional/XP, you must log on as a user with administrators' privileges.
- Internet Explorer and QuickTime 6 or later should be installed on your computer.
- Windows XP corresponds to Windows XP Professional/Home Edition.
- Windows 2000 corresponds to Windows 2000 Professional.
- If you are using Windows 98SE, the USB driver is installed automatically.

Macintosh

OS	Mac OS X 10.2 or later
CPU	Power PC G3 500 MHz or later
RAM	128 MB or more (at least 256 MB is recommended)
Hard disk capacity	300 MB or more
Connector	USB port
Monitor	1,024 × 768 pixels, 32,000 colors or more

Note

- Operation is only guaranteed on a Macintosh equipped with a built-in USB port.
- QuickTime 6 or later and Safari 1.0 or later must be installed.
- 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 card cover

Windows**1** Insert the CD-ROM into the CD-ROM drive.

- The OLYMPUS Master setup screen is displayed.
- If the screen is not displayed, double-click the "My Computer" icon and click the CD-ROM icon.

**2** Click the "OLYMPUS Master".

- The QuickTime installation screen is displayed.
- QuickTime is required to use OLYMPUS Master. If the QuickTime screen is not displayed, QuickTime 6 or later is already installed on the computer. In this case, go to step 4.

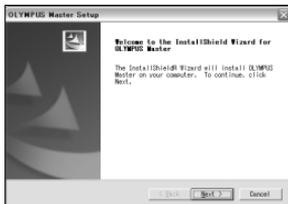
**3** Click "Next", and follow the on-screen instructions.

- When the QuickTime licensing agreement is displayed, read the agreement and click "Agree" to proceed with the installation.
- The OLYMPUS Master installation screen is displayed.



4 Follow the on-screen instructions.

- When the OLYMPUS Master licensing agreement is displayed, read the agreement and click “Yes” to proceed with the installation.
- When the “User Information” dialog box is displayed, enter your “Name” and “OLYMPUS Master Serial Number”; select your country and click “Next”. Refer to the sticker on the CD-ROM package for the serial number.
- When the DirectX licensing agreement is displayed, read the agreement and click “YES”.
- A screen asking whether or not you want to install Adobe Reader is displayed. Adobe Reader is required to read the OLYMPUS Master instruction manual. If this screen is not displayed, Adobe Reader is already installed on your computer.



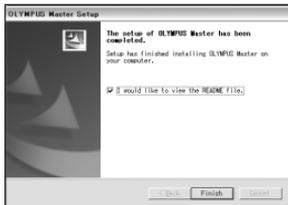
5 To install Adobe Reader, click “OK”.

- To cancel installation, click “Cancel”. Go to Step 7.
- The Adobe Reader installation screen is displayed. Follow the on-screen instructions.



6 Follow the on-screen instructions.

- The screen confirming that installation is completed is displayed. Click “Finish”.



7 Select the option to restart immediately when the screen asking you if you wish to restart the computer is displayed and click “OK”.

- The computer restarts.
- Remove the CD-ROM from the CD-ROM drive and store it.

Macintosh**1** Insert the CD-ROM into the CD-ROM drive.

- The CD-ROM window is displayed.
- If the CD-ROM window is not displayed, double-click the CD-ROM icon on the desktop.

**2** Double-click on the desired language folder.**3** Double-click the "Installer" icon.

- The OLYMPUS Master installer starts up.
- Follow the on-screen instructions.
- When the OLYMPUS Master licensing agreement is displayed, read the agreement and click "Continue" and then "Agree" to proceed with the installation.
- The screen confirming that installation is completed is displayed.

**4** Click "Finish".

- The first screen is displayed.

5 Click "Restart".

- The computer restarts.
- Remove the CD-ROM from the CD-ROM drive and store it.

Connecting the camera to a computer

Use the USB cable provided with the camera to connect the camera to your computer.

Mode dial

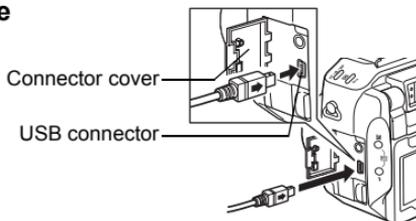
**1** On the camera, set [USB] to [PC].

"USB" (P. 134)

2 Plug the USB cable into the USB port on the computer.

- Refer to your computer's instruction manual to locate the position of the USB port.

- 3** Plug the USB cable into the camera's USB connector.



- 4** Turn on the camera.

- 5** The camera is recognized by the computer.

- Windows 98SE/Me/2000
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".
- Windows XP
When the camera is connected to the computer, the screen for selecting an image file operation is displayed. As OLYMPUS Master will be used to download images, click "Cancel".
- Mac OS X
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.

Starting up OLYMPUS Master

Windows

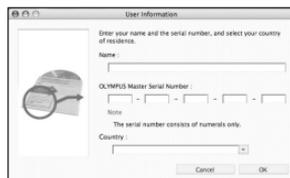
- 1** Double-click the "OLYMPUS Master" icon  on the desktop.

- The main menu is displayed.
- When OLYMPUS Master is started up for the first time after installation, the "Registration" dialog box is displayed before the main menu. Follow the prompts and fill in the registration form.

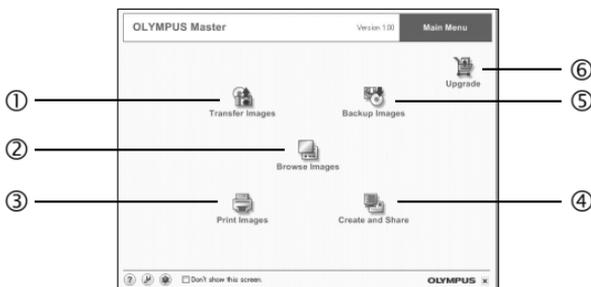
Macintosh

1 Double-click the “OLYMPUS Master” icon  in the “OLYMPUS Master” folder.

- The main menu is displayed.
- When OLYMPUS Master is started up for the first time, the “User Information” dialog box is displayed before the main menu. Enter your “Name” and “OLYMPUS Master Serial Number”, and select your country.
- After the “User Information” dialog box, the “Registration” dialog box is displayed. Follow the prompts and fill in the registration form.



● OLYMPUS Master main menu



- ① **“Transfer Images” button**
Downloads images from the camera or other media.
- ② **“Browse Images” button**
Displays the browse window.
- ③ **“Print Images” button**
Displays the print menu.
- ④ **“Create and Share” button**
Displays the editing menu.
- ⑤ **“Backup Images” button**
Creates backup images.
- ⑥ **“Upgrade” button**
Displays window for optional upgrade to OLYMPUS Master Plus.

● To exit OLYMPUS Master

1 Click the “Exit”  on the main menu.

- OLYMPUS Master is exited.

Displaying camera images on a computer

Downloading and saving images

You can save camera images on your computer.

1 Click “Transfer Images”  on the OLYMPUS Master main menu.

- The menu for selecting the source is displayed.

2 Click “From Camera” .

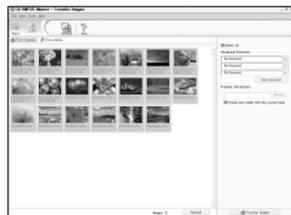
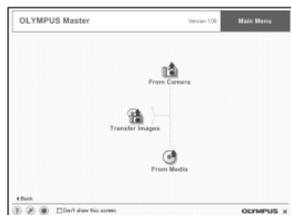
- The window for selecting images is displayed. All the images in the camera are displayed.

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 return to the main menu, click “Menu” in the “Browse Images” window.



Note

- The card access lamp blinks while downloading images. Do not do any of the following while the lamp is blinking.
 - Open the card cover.
 - Remove the battery.
 - Connect or disconnect the AC adapter.

To disconnect the camera

You can disconnect the camera after downloading the images to your computer.

1 Make sure that the card access lamp on the camera is off.



Card access lamp

2 Make the following preparations for disconnecting the USB cable.

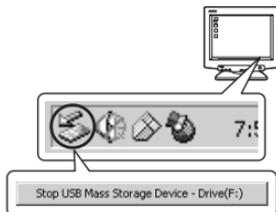
Windows 98SE

- 1 Double-click the "My Computer" icon and right-click the "Removable Disk" icon to display the menu.
- 2 Click "Eject" on the menu.



Windows Me/2000/XP

- 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".

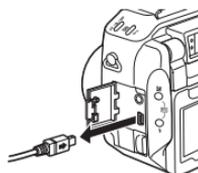


Macintosh

- 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.**

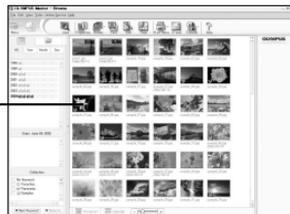
**Note**

- Windows Me/2000/XP: 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 handling the images are closed. Click the "Unplug or Eject Hardware" icon again and disconnect the cable.

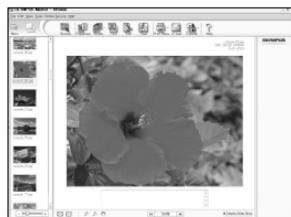
Viewing still pictures and movies

- 1 Click "Browse Images"  on the OLYMPUS Master main menu.
- 2 Double-click the still picture thumbnail that you want to view.

Thumbnail



- The camera switches to view mode and the picture is enlarged.
- To return to the main menu, click “Menu” in the “Browse Images” window.



● To view a movie

1 Double-click the movie thumbnail that you want to see in the “Browse Images” window.

- The camera switches to view mode and the first frame of the movie is displayed.

2 To play back the movie, click playback button  at the bottom of the screen.

The names and functions of the controller parts are shown below.



	Item	Description
1	Playback slider	Move the slider to select a frame.
2	Time display	Displays the time that has elapsed during playback.
3	Playback (pause) button	Plays the movie. Functions as the pause button during playback.
4	Back button	Displays the previous frame.
5	Forward button	Displays the next frame.
6	Stop button	Stops playback and returns to the first frame.
7	Repeat button	Plays the movie repeatedly.
8	Volume button	Displays the volume adjustment slider.

Printing pictures

Pictures can be printed from the photo, index, postcard and calendar menus. The explanation below uses the photo menu.

1 Click “Print Images”  on the OLYMPUS Master main menu.

- The print menu is displayed.

2 Click “Photo” .

- The “Photo Print” window is displayed.



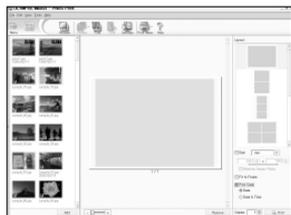
3 Click “Settings” in the “Photo Print” window.

- The printer settings screen is displayed. Make the necessary printer settings.



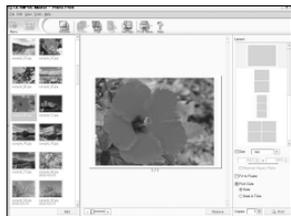
4 Select a layout and size.

- To print the date and time with your image, check the box next to “Print Date”, and select between “Date” and “Date & Time”.

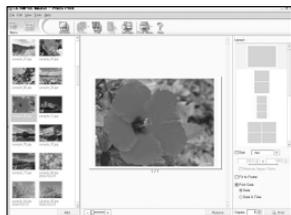


5 Select the thumbnail image that you want to print, and click “Add”.

- A preview of the selected image is displayed on the layout.



6 Select the number of copies.



7 Click "Print".

- Printing starts.
- To return to the main menu, click "Menu" in the "Photo Print" window.

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 98SE/Me/2000 Professional/XP

Macintosh: Mac OS 9.0 to 9.2/X

Note

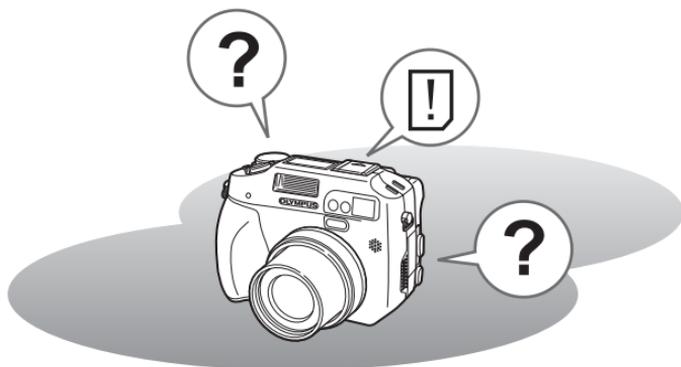
- If your computer is running Windows 98SE, you will need to install the USB driver. Before connecting the camera to your computer with the USB cable, double-click the files from the following folders on the OLYMPUS Master CD-ROM provided.
(Drive name):\USB\INSTALL.EXE
- Data transfer is not guaranteed in the following environments, even if your computer is equipped with a USB port.
 - Windows 95/98/NT 4.0
 - Windows 98SE upgrades from Windows 95/98
 - Mac OS 8.6 or earlier (However, data transfer is confirmed on Mac OS 8.6 equipped with a factory-installed USB port and USB MASS Storage Support 1.3.5.)
 - Computers with a USB port added by means of an extension card, etc.
 - Computers without a factory-installed OS and home-built computers.

Appendix

10

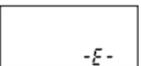
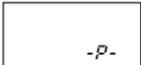
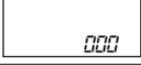
This chapter contains useful information from OLYMPUS.

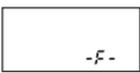
Here you will find what to do when you are stuck or don't understand the meaning of the terms used in this manual. Refer to this section for basic troubleshooting, camera care and a full glossary to understanding the terms used in this manual.



Troubleshooting

Error codes

Control panel	Monitor indication	Possible cause	Corrective action
	 NO CARD	The card is not inserted, or it cannot be recognized.	Insert a card, or remove the card and insert it again correctly. If the problem persists, format the card. If the card cannot be formatted, use a new card.
	 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.
	 CARD FULL	The image capacity or recording capacity of the card has been reached and no more pictures or movies can be taken.	Replace the card or erase unwanted pictures. Before erasing, download important images to a computer.
	 CARD FULL	The card is full. No more pictures, movies or information such as print reservations can be recorded.	Replace the card or erase unwanted pictures. Before erasing, download important images to a computer.
	 NO PICTURE	There are no pictures on the card.	The card contains no pictures. Record pictures.
No indication	 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.
	 CARD-COVER OPEN	The card cover is open.	Close the card cover.

Control panel	Monitor indication	Possible cause	Corrective action
No indication	 Y/M/D	When the camera is used for the first time or the battery has been removed for a long time, the date and time are on the factory default setting.	Set the date and time.
		This card cannot be used with this camera or the card is not formatted.	<ul style="list-style-type: none"> Format the card or replace. Select [POWER OFF] and press . Insert a new card. Select [FORMAT] and press . All data on the card is erased.
No indication	 ZOOM ERROR	Lens moved due to an external force.	Turn the camera off by turning the power switch to the off position, and turn the camera on again.

Troubleshooting

● Preparatory operations

Possible cause	Corrective action	Ref. page
The camera does not turn on or function buttons do not respond.		
The power is off.	Turn the power switch to ON, and turn on the camera.	–
The battery is exhausted.	Charge the battery.	–
The battery is temporarily unable to function because of the cold.	Warm the battery by putting it in your pocket for a while.	–
The camera is in the sleep mode.	Operate the camera (press the shutter button or zoom lever).	–
The camera is connected to a computer.	The camera will not operate while it is connected to a computer.	–

● Shooting

Possible cause	Corrective action	Ref. page
No picture is taken when the shutter button is pressed.		
The battery is exhausted.	Charge the battery.	–
The camera is in the playback mode.	Set the mode dial to a mode other than  .	P. 13
The flash has not finished charging.	Remove your finger from the shutter button, and wait until the orange lamp and  (flash charge) indication stop blinking before taking the picture.	P. 47
The card is full.	Erase unwanted pictures or insert a new card. Before erasing, download important images to a computer.	P. 116
The battery ran out of power during shooting or while the images were being written to the card. (Monitor turns off or the battery check indicator blinks.)	Charge the battery. (Wait until the card access lamp turns off when blinking.)	–
The memory gauge is full.	Wait until there is space in the memory gauge.	–
There is a problem with the card.	See “Error codes”.	P. 174

Possible cause	Corrective action	Ref. page
The monitor does not turn on.		
[MONITOR] is set to [OFF].	Press  several times, and turn on the monitor.	P. 30
The viewfinder or monitor is hard to see.		
The diopter is not adjusted properly.	Adjust the diopter so that the AF target mark is clearly visible.	P. 29
There is condensation* inside the camera.	Turn the camera off and wait until it dries before turning it on again.	–
The brightness of the monitor is not adjusted properly.	Select  in [MODE MENU] and adjust the brightness.	P. 130
The monitor is exposed to direct sunlight.	Block the sunlight with your hand or use the viewfinder.	–
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 date recorded with the image data is wrong.		
The date/time is not set.	Set the date/time. The clock adjustment is not factory-preset.	P. 123
The camera has been left with the battery removed.	If the camera is left for 3 days with the battery removed, the date/time setting is canceled. Set the date/time again.	P. 123
The settings are returned to the factory default settings when the camera is turned off.		
[ALL RESET] is set to [ON].	Set [ALL RESET] to [OFF] in [MODE MENU].	P. 120
The picture is out of focus.		
The subject was too close.	Move further away from the subject. To take pictures closer than 20 cm (7.9") with the zoom in the maximum WIDE position, use the super macro mode.	P. 46
The subject is dark.	Set [AF ILLUMINATOR] to [ON] in the mode menu.	P. 66
Auto focus is not possible.	Use manual focus or focus lock to focus on the subject and then shoot.	P. 31, 66
There is condensation* on the lens.	Turn the camera off and wait until it dries before turning it on again.	–

Possible cause	Corrective action	Ref. page
The monitor goes off.		
The camera is in the sleep mode.	Operate the camera (press the shutter button or zoom lever).	–
The power is turned off with the monitor off.	If [ALL RESET] in [MODE MENU] is set to [OFF], the camera settings before the power was turned off remain unchanged. Turn on the monitor, and turn off the power.	P. 30, 120
The flash does not fire.		
The flash is set to [☺].	Select a flash mode other than [☺].	P. 47
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to [☺].	P. 47
High speed sequential shooting, sequential shooting, AF sequential shooting or auto bracketing is set.	The flash does not fire in the high speed sequential shooting, sequential shooting, AF sequential shooting or auto bracketing mode. Set [DRIVE] to [□] in [MODE MENU].	P. 89
The camera records movies.	The flash does not fire in the movie mode. Select a shooting mode other than [📹].	P. 87
Super macro mode is set.	The flash does not fire in the super macro mode. Set [👉] to [OFF] or [👉].	P. 46
Panorama mode is set.	The flash does not fire in the panorama mode.	P. 92
The battery run time is brief.		
You are using the camera in a cold environment.	Battery performance deteriorates in low temperatures. Keep the camera warm by putting it inside your coat or clothing.	–
The remaining battery power is not indicated correctly.	When battery consumption fluctuates considerably, the camera may turn off without displaying the battery warning indicator. Charge the battery.	–
The green and orange lamps on the side of the viewfinder blink simultaneously.		
The battery is exhausted.	Charge the battery.	–

* Condensation: 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.

● Playback of recorded images

Possible cause	Corrective action	Ref. page
The picture is out of focus.		
A subject unsuited to AF was taken.	Use manual focus or focus lock to focus on the subject and then shoot.	P. 66, 31
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently.	P. 28
The flash was set to [Ⓢ] in a lighting condition requiring use of the flash.	Select a flash mode other than [Ⓢ]. Camera movement occurs easily with slower shutter speeds. Use a tripod, or set the flash to [AUTO].	P. 47
The subject is dark.	Set [AF ILLUMINATOR] to [ON] in [MODE MENU].	P. 66
The lens was dirty.	Clean the lens. Use a commercially available blower brush and then wipe with a lens cleaner to remove dust. Mold may form on the lens surface if the lens is left dirty.	P. 183
The picture is too bright.		
The flash was set to [⚡].	Select a flash mode other than [⚡].	P. 47
The center of the subject is too dark.	If the center of the subject is too dark, the surrounding area emerges as too bright. Adjust the exposure compensation toward minus (-).	P. 73
The [ISO] is at a high setting.	Set [ISO] to [AUTO] or to a low sensitivity: [80]	P. 72
The aperture value is small in A (M) mode.	Increase the aperture value or set the camera to P mode.	P. 57
The shutter speed setting is too slow in S (M) mode.	Increase the shutter speed or set the camera to P mode.	P. 59

Possible cause	Corrective action	Ref. page
The picture is too dark.		
The flash was blocked by your finger.	Hold the camera correctly, keeping your fingers away from the flash.	P. 28
The subject was out of the working range of the flash.	Shoot within the flash working range.	P. 47
The flash is set to [☺].	Select a flash mode other than [☺].	P. 47
The subject was too small and was backlit.	Set the flash to [⚡], or use spot metering mode.	P. 47, 69
The sequential shooting mode was used.	Higher shutter speeds are used during sequential shooting, which may result in pictures that are darker than usual. Set [DRIVE] to [□] in [MODE MENU].	P. 89
The center of the subject is too bright.	If the center of the subject is too bright, the image as a whole emerges darker. Adjust the exposure compensation toward plus (+).	P. 73
The aperture value is too high in A (M) mode.	Decrease the aperture value or set the camera to P mode.	P. 57
The shutter speed is too fast in S (M) mode.	Reduce the shutter speed or set the camera to P mode.	P. 59
The colors of pictures look unnatural.		
Indoor lighting affected the picture's colors.	Set the white balance according to the lighting.	P. 74
No white in the picture.	Include something white in the picture, or shoot using [⚡].	P. 47
The white balance setting is wrong.	Adjust the white balance according to the light source.	P. 74
A filter was used.	The image may be discolored according to the filter used. Use the one-touch white balance function.	P. 76
Part of the picture is dark.		
The lens was partly blocked by your finger or the strap.	Hold the camera correctly, keeping your fingers and the strap away from the lens.	P. 28

Possible cause	Corrective action	Ref. page
Halation produces unnatural colors in the picture.		
This may be caused by excessively bright ultraviolet light on the subject, such as sunlight shining through the leaves of trees, window frames in bright light at night, reflection of metal in direct sunlight, etc.	Use an Olympus UV filter. As this may upset the overall color balance, it should only be used in the conditions described on the left. If the discoloration persists, touch up the picture using a graphics application. For details, refer to the manual for the graphics application you are using.	–
Pictures you have taken do not appear on the monitor.		
The power is off.	Set the mode dial to  , then turn the power switch to ON.	P. 13
The camera is in the shooting mode.	Press the QUICK VIEW button or set the mode dial to  .	P. 13, 16
There are no pictures on the card.	[NO PICTURE] is displayed on the monitor. Record pictures.	–
There is a problem with the card.	See “Error codes”.	P. 174
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P. 112
Single-frame erase and all-frame erase cannot be performed.		
The pictures are protected.	Display pictures with  and press the  button to cancel protection.	P. 115
No picture is displayed on the TV when connected to the camera.		
The video output signal is incorrect.	Set the video output signal according to the region where used.	P. 113
The TV video signal setting is incorrect.	Set the TV to the video input mode.	P. 112
The monitor is hard to see.		
The brightness of the monitor is not adjusted properly.	Select  in [MODE MENU] and adjust the brightness.	P. 130
The monitor is exposed to direct sunlight.	Block the sunlight with your hand or use the viewfinder.	–

● **When the camera is connected to a computer or printer**

Possible cause	Corrective action	Ref. page
The printer fails to connect.		
[USB] is set to [PC].	Set [USB] to [PRINT].	P. 142
The printer does not support PictBridge.	Refer to the printer's instruction manual or contact the manufacturer.	–
The camera is not recognized by the computer.		
The USB driver has not been installed.	Install OLYMPUS Master.	P. 161
The camera has not been turned on.	Set the mode dial to  , then turn the power switch to ON.	P. 13

● 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.

Viewfinder and monitor:

- Wipe gently with a soft cloth.

Lens:

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

Card:

- Wipe gently with a soft, dry cloth.

! 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

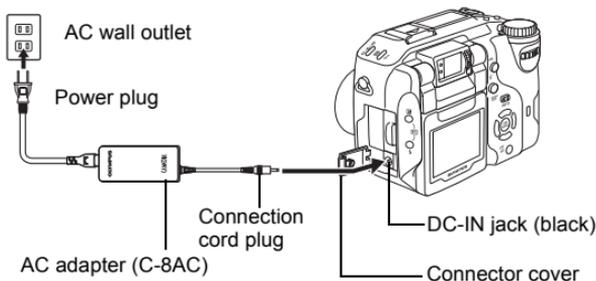
- Avoid leaving the camera in places where chemical products are handled since this may result in corrosion.

Accessories (optional)

AC adapter (optional)

An AC adapter is useful for time-consuming tasks such as image downloads to a computer.

The optional Olympus AC adapter (C-8AC) allows you to power your digital camera from a common AC wall outlet.



? TIPS

How to use the charger in other countries

→ To use the charger in other countries, equip the charger with an adapter plug suited to the AC outlet in the intended region of use. Please ask your travel agency about which adapter plug to use.

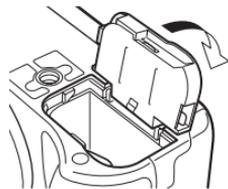
! Note

- If the battery power runs out while the camera is connected to a computer or printer, the image data may be lost or damaged. It is recommended that you use the optional AC adapter when connecting the camera to a computer or printer. Do not connect or disconnect the AC adapter while the camera is connected to a computer or printer.
- Do not remove or load the battery or connect or disconnect the AC adapter while the camera is turned on. Doing so could affect the camera's internal settings or functions.
- When using an AC adapter, power is supplied to the camera by the AC adapter even if a battery is loaded in the camera. The AC adapter does not charge the battery in the camera.
- Be sure to refer to the instruction manual for the AC adapter.

Power battery holder

The optional power battery holder (B-HLD20) holds 2 lithium ion batteries allowing you to shoot for extended periods. Be sure to remove the battery compartment cover by pushing it in the direction of the arrow when attaching the power battery holder to the camera.

For more details, refer to the instructions provided with the power battery holder.



Precautions for using Microdrive

The following restrictions apply when using Microdrive. Refer to the instructions provided with your Microdrive.

You are recommended to use an xD-Picture Card or CompactFlash card when taking important pictures.

Operating environment

Microdrive is a compact hard disk drive. As it is a rotating recording medium, it is not as resistant to vibration or impact as the solid recording medium of other cards. When using Microdrive, be careful not to subject the camera to vibration or impact. (Special care is needed during recording and playback.)

- Do not bang the camera down on the table during recording.
- Be careful not to hit the camera against anything when carrying it on your shoulder.
- Do not use the camera where the ground is likely to vibrate, such as a construction site.
- Do not use the camera in the car while driving along a bumpy road where the camera will be badly shaken.

Precautions regarding Microdrive

- Do not write on the label.
- Do not remove the label.
- Do not stick another label on top of the label.
- It is advisable to keep Microdrive in its case for storage or transportation.
- Microdrive may become hot if used for an extended period of time. Care should be taken when handling Microdrive.
- Do not take close to where there is strong magnetism.
- Do not apply strong pressure to the cover.

Camera operations

Using Microdrive may increase battery consumption. To reduce consumption of the battery, observe the following.

- Whenever possible, refrain from using the monitor during shooting.
- Unless there is a particular need, remove the xD-Picture Card when using Microdrive.
- If nothing happens when the buttons are pressed, remove the battery, then put it back again.
- If you use Microdrive when the battery power is low, the camera may not turn on.

If [CARD ERROR] is displayed

- If no pictures can be recorded or downloaded, run SCANDISK on a computer.
 "Error codes" (P. 174)

Using commercially available external flashes

When selecting an external flash, use products which meet the following basic conditions.

- (1) Some flashes available on the market operate with a high voltage synchro terminal. If one of these is used, it may damage the camera, and/or the camera may not function normally. Contact the manufacturer of the flash you are using concerning the specifications of the flash's synchro terminal.
- (2) Some flashes available on the market have the polarity of the synchro terminal reversed. In this case, even if the flash is connected, it will not fire. Contact the manufacturer of the flash for more information.
- (3) Exposures when using an external flash require that adjustments be made on the external flash unit. If an external flash is used in the auto mode, match it with the F value and ISO settings on the camera.
- (4) Even if the auto F value and ISO of the external flash are set to the same conditions as those on the camera, depending on the photographic conditions, it is possible that the correct exposure may not be obtained anyway. In such a case, adjust the auto F value or ISO value on the external flash unit or calculate the distance in the manual mode and use it that way.
- (5) Use a flash whose illuminating angle covers the angle of view of the lens. However, in close-up photography with the lens on the wide setting, the bottom of the image may not expose correctly. The ideal is to have a wide angle adapter to fit on the flash and spread the illumination angle so it is wider.
- (6) Use a flash unit with a flash time of 1/200 sec. or less when using the flash at full strength. For devices with a long flash time, a portion of the light emitted will not contribute to the exposure.
- (7) **If a flash unit or other accessory TTL flash that has additional communications functions other than an Olympus FL series flash is used, it may not only fail to function normally, but may also cause damage to the camera's circuitry. Do not use such a device.**

Safety Precautions

 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 the loss of valuable data may result.

Handling the Camera

WARNING

- **Do not use the camera near flammable or explosive gases.**
 - To avoid causing a fire or explosion, never use the camera near flammable or explosive gases.
- **Do not use the flash on people (infants, small children, etc.) at close range.**
 - Use caution when taking flash pictures at close range. When you fire the flash, you must be at least 1 m (3 ft.) away from the faces of your subjects, especially when taking pictures of infants and small children. 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.**
 - To avoid damaging your eyes, never aim the camera directly into the sun, or any other extremely bright light source.
- **Do not touch a charging battery or the battery charger until charging is finished and the battery has cooled.**
 - The battery and battery charger become hot while charging. A specified AC adapter also becomes hot during long use. At these times, they may cause minor burns.
- **Do not use or store the camera in dusty or humid places.**
 - Using or storing the camera in dusty or humid places may result in a fire or electric shock.

- **Do not cover the flash with a hand while firing.**
 - Do not cover the flash with a hand while firing or touch it after it has just been fired. It may be hot and cause minor burns. Avoid using the flash for extended periods.
- **Do not take apart or modify the camera.**
 - Never attempt to disassemble the camera. The internal circuits contain high voltage points which could cause serious burns or electrical shock.
- **Do not let water or foreign objects inside the camera.**
 - If the camera is accidentally dropped in water, or if liquid is spilled into the camera, stop using it, allow it to dry, and then remove the battery. Contact the nearest authorized Olympus service center.



CAUTION

- **Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.**
 - If you notice any unusual odors, noise, or smoke around the camera during operation, switch it off immediately – and disconnect a specified AC adapter (if attached). Allow the camera to sit idle for a few minutes to cool. Take the camera outdoors, away from flammable objects, and carefully remove the battery. Never remove the battery with bare hands, which may cause a fire or burn your hands. Contact the nearest Olympus service center immediately.
- **Do not use the camera with wet hands.**
 - To avoid dangerous electrical shock, 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.

● Use only the AC adapter specified by Olympus.

- Never use any AC adapter except one specified by Olympus. Using a different AC adapter may damage the camera or power source, or result in accidents or fire. Ensure the adapter used is designed for your region or country. For more information, contact the nearest Olympus service center or the store of purchase. Olympus makes no representations or warranties regarding any damages caused by AC adapters not recommended by Olympus.

● Do not damage the power-supply cord.

- Never pull or modify the power-supply cord of the AC adapter or accessories. Make sure only the plug is securely held during insertion and removal from the outlet. Stop using the camera immediately, and contact the nearest Olympus service center or the store of purchase if:
 - The power-supply cord becomes hot, or it gives off smoke or unusual odors.
 - The power-supply cord is cut or damaged, or the plug has a faulty contact.

Battery handling precautions

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

**DANGER**

- This camera uses a lithium ion battery specified by Olympus. Charge batteries with the specified charger. Do not use any other chargers.
- Never heat or incinerate batteries.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, etc.
- Never store batteries where they will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, by soldering, 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. Never allow them to come into contact with fresh or salt water.
- To prevent batteries from leaking, overheating, or causing a fire or explosion, use only batteries recommended for use with this product.
- Insert the battery carefully as described in the operating instructions. Never load the battery with its +/- terminals reversed. Never force the battery into the battery compartment.
- If the rechargeable battery has not been recharged within the specified time, stop charging it and do not use it.
- 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 and consult your dealer or an authorized Olympus service center. Continued use may result in fire or electric shock.
- 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 attempt to modify the battery compartment on the camera, never insert anything (other than the recommended battery) into the battery compartment.
- Never subject batteries to strong shocks or continuous vibration.

CAUTION

- Before loading, always inspect the battery carefully for leaks, discoloration, warping, or any other abnormality.
- Olympus lithium ion batteries are intended for use only with Olympus digital cameras. To find out whether your camera can be used with these batteries, read your camera's manual.
- Always charge lithium ion batteries when using them for the first time, or if they have not been used for a long period.
- The battery may become hot during prolonged use. To avoid minor burns, do not remove it immediately after using the 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.
- Always unload the battery from the camera before storing the camera for a long period.
- Before using a rechargeable battery, be sure to read the instructions.
- The number of pictures you can take may vary depending on the shooting conditions or battery.
- Before going on a long trip, and especially before traveling abroad, purchase an ample supply of extra batteries. A recommended battery may be difficult to obtain while traveling.

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 the camera.
- 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 forcefully on the lens.
- Before storing the camera for a long period, remove the battery. 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.

Card handling precautions

- The card is a precision electronic device. Do not bend it or subject it to impact and keep it away from static electricity. The data stored on the card is saved in a nonvolatile semiconductor memory, but it can be accidentally destroyed.
- Do not expose the card to water or leave it where there is a lot of dust.
- Avoid using or storing the card in places of high temperature and high humidity.
- Avoid using near heat-generating or combustible materials.
- Fingerprints or dirt on the card contacts may prevent correct reading/writing of data. Wipe the contacts gently with a soft dry cloth.
- **The card has a limited product life. Eventually, writing or erasing data from the card no longer becomes possible.**
- **Olympus is not responsible for any damage to data saved in other media or loss of data stored on the card.**

LCD Monitor

- Do not push the monitor forcibly; otherwise the image may become vague, resulting in a display 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.

Glossary of terms

A (Aperture Priority) Mode

You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

AE (Automatic Exposure)

The camera automatically sets the exposure. The 3 AE modes available on this camera are **P** mode, in which the camera selects both the aperture and shutter speed, **A** mode, in which the user selects the aperture and the camera sets the shutter speed, and **S** mode, in which the user selects the shutter speed and the camera sets the aperture. In **M** mode, the user selects both the aperture and the shutter speed.

Aperture

The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

Backlight

A light source to illuminate the monitor from behind the screen.

CCD (Charge-Coupled Device)

This converts light passing through the lens into electrical signals. On this camera, light is picked up and converted into RGB signals to build a single image.

Contrast Detection Method

This is used to measure the distance to the subject. The camera determines if the image is focused by the level of contrast in the subject.

Conventional Photograph

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography). This system is in contrast to still video and digital photography.

DCF (Design Rule for Camera File System)

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of Field

The subject itself as well as some area to the front and rear of the subject are focused. The entire depth of this focused area, from the front to the rear of the subject, is called "depth of field".

DPOF (Digital Print Order Format)

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can easily have the desired images printed by a printer or print lab that supports the DPOF format.

Dual Auto Focus

An auto focus system that uses two different focus detection systems in combination. This camera uses the CCD's contrast detection system in combination with specified the sensor's phase difference detection system, nullifying the shortcomings of each system.

Eclipsing (Vignetting)

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

ESP (Electro-Selective Pattern) Light Metering/Digital ESP Light Metering

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

EV (Exposure Value)

A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO.

Exposure

The amount of light used to capture an image. The exposure is determined by the time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Flash Bracket

A mount used to attach an external flash to the camera. Shadows on the subject can be changed by detaching the flash. The flash is used in combination with the flash cable.

Image Size

The size of an image expressed by the number of pixels that make up the image. For instance, a picture taken with an image size of 640 × 480 fills the computer screen when the monitor setting is 640 × 480. However, if the monitor setting is 1,024 × 768, the picture only takes up part of the screen.

ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (ex. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)

A compression format for still images. Photographs (images) shot using this camera are recorded onto the card in JPEG format when the record mode is set to SHQ, HQ, SQ1 or SQ2. By downloading these images to a computer, users can edit them using graphics application software or view the images using an Internet web browser.

M (Manual) Mode

The user sets both the aperture and shutter speed.

NTSC (National Television Systems Committee) / PAL (Phase Alternating Line)

Television formats. NTSC is mainly used in Japan, North America and Korea. PAL is mainly used in Europe and China.

P (Program) Mode

Also called Program AE mode. The camera automatically sets the best shutter speed and aperture for the shot.

Phase-difference Detection System

This system measures the distance to the subject. The distance is calculated by the difference in the image of the subject captured by a pair of sensors.

PictBridge

A standard for connecting digital cameras and printers of different makers and printing out pictures directly.

Pixels

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

S (Shutter Priority) Mode

Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

Sleep Mode

A mode designed to save battery life. The camera automatically enters the sleep mode if you do not operate it for a certain time. To exit the sleep mode, use any button on the camera (shutter button, arrow pad, etc.).

Slave Flash

A wireless flash that is not connected to the camera by a synchronization cord. It flashes in phase with the flash on the camera and can be used for lighting techniques, such as changing the way shadows are cast on a subject.

Synchro Terminals

Terminals on an external flash unit for connecting it to the camera.

TFT (Thin-Film Transistor) Color Monitor

A transistor color monitor constructed using thin-film technology.

TIFF (Tagged Image File Format)

A format used for saving highly detailed black and white or color image data. TIFF image files can be handled by software programs for scanners and graphics applications. This camera uses TIFF in an uncompressed format.

TTL (Through-The-Lens) System

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

TTL-AUTO

For use with an external flash. Light emitted by the flash is measured by the light receptor in the camera as it passes through the lens. A signal is then sent to adjust the external flash intensity.

Miscellaneous

This chapter contains all the camera functions described in Chapters 1 to 9. Refer here for the names of the camera parts and buttons, the names and meanings of the icons that are displayed on the monitor, and the lists of the top menu and mode menus.

An index also helps you find the pages where a function or item that you are looking for appears. For effective use of the manual, reference page numbers are listed next to the names of the camera parts and in the menu lists.



Menu list

● Shooting mode menus (P, A, S, M, , SCENE)

Top menu	Tab	Function	Sub menu	Setting	Ref. page	
MODE MENU	CAMERA	DRIVE		 HI  BKT AF  AF, BKT	P. 89	
		ISO		AUTO, 80, 100, 200, 400	P. 72	
		FLASH MODE	FLASH MODE	AUTO,  ,   SLOW, 	P. 47	
				-2.0 – +2.0	P. 51	
			 FLASH	IN+  ,  SLAVE	P. 52	
			 SLOW	 SLOW1,   SLOW,  SLOW2	P. 51	
		AF/  MF	FOCUS MODE		AF,  , ORACLE AF, MF,  ,  MF	P. 46, 64, 66
			AF MODE		iESP, 	P. 63
			FULLTIME AF		OFF, ON	P. 63
		ESP/ 		ESP,  , MULTI METERING, 		P. 69
		 / 		OFF,  , 		P. 91, 94
		DIGITAL ZOOM		OFF, ON		P. 45
		NOISE REDUCTION* ¹		OFF, ON		P. 82
		FUNCTION		OFF, PANORAMA, BLACK & WHITE, SEPIA		P. 92
		ACCESSORY		OFF,  , 		P. 97
		 (still pictures)		OFF, ON		P. 96
		FRAME ASSIST		OFF, 1, 2		P. 85
				OFF,  ON, ON, DIRECT		P. 83
		 * ²		OFF, ON		P. 62
		 1/2/3/4 * ³		MY MODE 1 – MY MODE 4		P. 62
SCENE* ⁴		 ,  ,  ,  ,  , 		P. 42		

● Shooting mode menus (P, A, S, M, , SCENE)

Top menu	Tab	Item	Sub menu	Setting	Ref. page
MODE MENU	PICTURE 		RAW	OFF, SHQ, HQ, SQ1, SQ2	P. 37
			TIFF	3072 × 2304, 2592 × 1944, 2288 × 1712, 2048 × 1536, 1600 × 1200, 1280 × 960, 1024 × 768, 640 × 480	P. 37
			SHQ	3072 × 2304,  3072 × 2048	P. 37
			HQ	3072 × 2304,  3072 × 2048	P. 37
			SQ1	2592 × 1944, 2288 × 1712, 2048 × 1536, 1600 × 1200	P. 37
			SQ2	1280 × 960, 1024 × 768, 640 × 480	P. 37
			WB	AUTO	 , SET
		PRESET1	PRESET1,  , SET	P. 75	
		PRESET2	PRESET2,  , SET	P. 75	
		CUSTOM	CUSTOM1 – CUSTOM4	P. 76	
			YES,  , SET	P. 76	
		SCENE MODES **1	NORMAL, 	P. 80	
		SHARPNESS	-5.0 – +5.0	P. 80	
	CONTRAST	-5.0 – +5.0	P. 81		
	HUE	-5.0 – +5.0	P. 81		
	SATURATION	-5.0 – +5.0	P. 82		
	CARD	FORMAT	YES, NO	P. 117	
	SETUP	ALL RESET	OFF, ON	P. 120	
		EV STEP	1/3EV, 1/2EV	P. 122	
		 *5		P. 122	
				P. 123	
		MY MODE SETUP	CURRENT, RESET, CUSTOM	P. 124	

● Shooting mode menus (P, A, S, M, , SCENE)

Top menu	Tab	Item	Sub menu	Setting	Ref. page
MODE MENU	SETUP	SOUND	BEEP	OFF, 1, 2	P. 126
			SHUTTER SOUND	OFF, 1, 2	P. 127
				OFF, LOW, HIGH	P. 128
			VOLUME	0 – 5	P. 128
		PW ON/OFF SETUP	PW ON SETUP	SCREEN, SOUND	P. 129
			PW OFF SETUP	SCREEN, SOUND	P. 129
					P. 130
		VIDEO OUT		NTSC, PAL	P. 113
		REC VIEW		OFF, AUTO, 3SEC, 5SEC, 10SEC	P. 131
		FILE NAME		RESET, AUTO	P. 131
		PIXEL MAPPING		START	P. 132
		m/ft		m, ft	P. 133
		AF ILLUMINATOR		OFF, ON	P. 66
		DUAL CONTROL PANEL		OFF, ON	P. 133
				4, 9, 16	P. 101
		USB		PC, PRINT	P. 134
		SHORT CUT		A, B, C	P. 134
		CUSTOM BUTTON			P. 136
		DIAL		NORMAL, CUSTOM1, CUSTOM2	P. 138
		 /SCENE		OFF, ON	P. 139
		(DRIVE) ^{*6}			
 ^{*6}					P. 33
(WB) ^{*6}					P. 74

*1 Cannot be selected in **SCENE** mode.

*2 Only available in **M** mode.

*3 Only available in  mode.

*4 Only available in **SCENE** mode.

*5 Available languages vary depending on the area where you purchased this camera.

*6 The function registered in the shortcut menu is displayed.

● Shooting mode menus (📷)

Top menu	Tab	Item	Sub menu	Setting	Ref. page		
MODE MENU	CAMERA	ISO		AUTO, 80, 100, 200, 400	P. 72		
		AF/📷/MF	FOCUS MODE	AF, 📷, s📷	P. 46, 66		
			AF MODE	iESP, 📷	P. 63		
			FULLTIME AF	OFF, ON	P. 63		
		ESP/📷			ESP, 📷, 📷	P. 69	
		📷/📷			OFF, 📷, 📷	P. 91, 94	
		DIGITAL ZOOM			OFF, ON	P. 45	
		FUNCTION			OFF, BLACK & WHITE, SEPIA	P. 92	
		ACCESSORY			OFF, 📷, 📷	P. 97	
	PICTURE	📷		SHQ, HQ, SQ1, SQ2		P. 37	
		WB	AUTO	WB📷, SET		P. 75	
			PRESET 1	PRESET1, WB📷, SET		P. 75	
			PRESET 2	PRESET2, WB📷, SET		P. 75	
			CUSTOM	CUSTOM1 – CUSTOM4		P. 76	
			📷	YES, WB📷, SET		P. 76	
		SCENE MODES	NORMAL, 📷, 📷, 📷		P. 80		
		SHARPNESS	-5.0 – +5.0		P. 80		
		CONTRAST	-5.0 – +5.0		P. 81		
		HUE	-5.0 – +5.0		P. 81		
		SATURATION	-5.0 – +5.0		P. 82		
		CARD	FORMAT	YES, NO		P. 117	
	SETUP	ALL RESET		OFF, ON		P. 120	
		EV STEP		1/3EV, 1/2EV		P. 122	
		📷 ¹				P. 122	
		📷				P. 123	
		SOUND	BEEP		OFF, 1, 2		P. 126
			SHUTTER SOUND		OFF, 1, 2		P. 127
			📷)		OFF, LOW, HIGH		P. 128
	VOLUME		0 – 5		P. 128		

● Shooting mode menus (📷)

Top menu	Tab	Item	Sub menu	Setting	Ref. page	
MODE MENU	SETUP	PW ON/OFF SETUP	PW ON SETUP	SCREEN, SOUND	P. 129	
			PW OFF SETUP	SCREEN, SOUND	P. 129	
						P. 130
		VIDEO OUT		NTSC, PAL	P. 113	
		FILE NAME		RESET, AUTO	P. 131	
		PIXEL MAPPING		START	P. 132	
		DUAL CONTROL PANEL		OFF, ON	P. 133	
		USB		PC, PRINT	P. 134	
		DIAL		NORMAL, CUSTOM1, CUSTOM2	P. 138	
				(movies)	OFF, ON	P. 97
			SHQ, HQ, SQ1, SQ2	P. 33		
			OFF, ON	P. 88		

*1 Available languages vary depending on the area where you purchased this camera.

● Playback mode menus for still pictures (▶)

Top menu	Tab	Item	Sub menu	Setting	Ref. page
MODE MENU	EDIT	RAW DATA EDIT		TIFF, SHQ, HQ, SQ1, SQ2	P. 104
				-2.0 – +2.0	P. 104
			WB	AUTO, PRESET1, PRESET2, CUSTOM, 	P. 104
				RED7 – BLUE7	P. 104
			SCENE MODES	NORMAL, 	P. 104
			SHARPNESS	-5.0 – +5.0	P. 104
			CONTRAST	-5.0 – +5.0	P. 104
			HUE	-5.0 – +5.0	P. 104
			SATURATION	-5.0 – +5.0	P. 104
			FUNCTION	OFF, BLACK & WHITE, SEPIA	P. 104
				OK, RESET, CANCEL	P. 104
				640 × 480, 320 × 240, CANCEL	P. 106
				OK, RESET, CANCEL	P. 106

● Playback mode menus for still pictures (▶)

Top menu	Tab	Item	Sub menu	Setting	Ref. page	
MODE MENU	EDIT	COPY		ALL, SELECT	P. 114	
		REDEYE FIX		START	P. 108	
	CARD	ALL ERASE		YES, NO	P. 116	
		FORMAT		YES, NO	P. 117	
	SETUP	ALL RESET		OFF, ON	P. 120	
		EV STEP		1/3EV, 1/2EV	P. 122	
		 *1			P. 122	
					P. 123	
		SOUND	BEEP		OFF, 1, 2	P. 126
			SHUTTER SOUND		OFF, 1, 2	P. 127
					OFF, LOW, HIGH	P. 128
			VOLUME		0 – 5	P. 128
		PW ON/OFF SETUP	PW ON SETUP		SCREEN, SOUND	P. 129
			PW OFF SETUP		SCREEN, SOUND	P. 129
			SCREEN SETUP		PW ON, PW OFF	P. 129
					P. 130	
		VIDEO OUT		NTSC, PAL	P. 113	
		REC VIEW		OFF, AUTO, 3SEC, 5SEC, 10SEC	P. 131	
		FILE NAME		RESET, AUTO	P. 131	
		m/ft		m, ft	P. 133	
		AF ILLUMINATOR		OFF, ON	P. 66	
	DUAL CONTROL PANEL		OFF, ON	P. 133		
			4, 9, 16	P. 101		
	USB		PC, PRINT	P. 134		
	SHORT CUT		A, B, C	P. 134		
	CUSTOM BUTTON			P. 136		
	DIAL		NORMAL, CUSTOM1, CUSTOM2	P. 138		
	 /SCENE		OFF, ON	P. 139		
						P. 102
						P. 108

*1 Available languages vary depending on the area where you purchased this camera.

● Playback mode menus for movies (▶)

Top menu	Tab	Item	Sub menu	Setting	Ref. page		
MODE MENU	EDIT	INDEX		OK, RESET, CANCEL	P. 110		
		EDIT		OK, RESET, CANCEL	P. 111		
	CARD	ALL ERASE		YES, NO	P. 116		
		FORMAT		YES, NO	P. 117		
	SETUP	ALL RESET		OFF, ON	P. 120		
		EV STEP		1/3EV, 1/2EV	P. 122		
		 *1			P. 122		
					P. 123		
		SOUND	BEEP		OFF, 1, 2	P. 126	
			SHUTTER SOUND		OFF, 1, 2	P. 127	
					OFF, LOW, HIGH	P. 128	
			VOLUME		0 – 5	P. 128	
		PW ON/OFF SETUP	PW ON SETUP		SCREEN, SOUND	P. 129	
			PW OFF SETUP		SCREEN, SOUND	P. 129	
			SCREEN SETUP		PW ON, PW OFF	P. 129	
						P. 130	
		VIDEO OUT		NTSC, PAL	P. 113		
		FILE NAME		RESET, AUTO	P. 131		
		DUAL CONTROL PANEL		OFF, ON	P. 133		
		USB		PC, PRINT	P. 134		
		DIAL		NORMAL, CUSTOM1, CUSTOM2	P. 138		
		MOVIE PLAYBACK					P. 103
		COPY				ALL, SELECT	P. 114

*1 Available languages vary depending on the area where you purchased this camera.

List of factory default settings

The functions are set as follows when the camera leaves the factory.

● Shooting mode

FNo.	F2.8
Program shift	Reset
SHUTTER	1/1000
Optical zoom	Wide
MONITOR	ON
Card	xD
	0.0
FLASH MODE	A, S, M, P, SCENE : AUTO  : 
AF/  /MF	AF
 /i	OFF
ESP/ 	ESP
AEL (MULTI METERING)	Reset
DRIVE	
BKT	±1.0EV, 3
ISO	AUTO (A, S, M : 80)
MY MODE	MY MODE 1
SCENE	
	0.0
 FLASH	IN+ 
SLAVE	1
 SLOW	 SLOW1
NOISE REDUCTION	OFF ( : fixed ON)
DIGITAL ZOOM	OFF
FULLTIME AF	OFF
AF MODE	iESP
ACCESSORY	OFF
FUNCTION	OFF
AF target mark	Center
Histogram target mark	Center

	OFF
 (still pictures)	OFF
FRAME ASSIST	OFF
 mode	OFF
 (movies)	ON
	A, S, M, P, SCENE : HQ (3072 × 2304)  : HQ (640 × 480)
JPEG DUPLICATE SETTING	HQ
TIFF	3072 × 2304
SHQ	3072 × 2304
HQ	3072 × 2304
SQ1	1600 × 1200 NORMAL
SQ2	640 × 480 NORMAL
WB	AUTO
	No compensation
CUSTOM WB SETTING	Not registered
SCENE MODES	NORMAL
SHARPNESS	±0
CONTRAST	±0
HUE	±0
SATURATION	±0
EV STEP	1/3EV
REC VIEW	AUTO
FILE NAME	RESET
m/ft	m
SHORT CUT	A: DRIVE, B:  , C: WB
CUSTOM BUTTON	DRIVE
DUAL CONTROL PANEL	OFF
SHUTTER SOUND	1 – LOW
AF ILLUMINATOR	ON
DIAL	NORMAL
 /SCENE	ON
	OFF

● Playback mode

	OFF
	0°
	OFF
	9
Card	xD
	OFF
	OFF
VOLUME	3

● Others

ALL RESET	ON
	ENGLISH
PW ON SETUP	SCREEN: OFF, SOUND: OFF
PW OFF SETUP	SCREEN: OFF, SOUND: OFF
	NORMAL
	Y-M-D 2004.01.01 00:00
VIDEO OUT	NTSC or PAL*
USB	PC
	HIGH
BEEP	1 – HIGH
SCREEN SETUP	None

* Settings differ according to the region where the camera is sold.

Modes and shooting functions

In  mode, available functions vary depending on the modes set in the [MY MODE SETUP] menu.

Function		Mode	P	A	S	M	SCENE	
Zoom					✓			
DIGITAL ZOOM					✓			
AF MODE					✓			—
FULLTIME AF					✓			
AF target					✓			—
AF ILLUMINATOR					✓			—
MF					✓			—
FLASH MODE	AUTO		✓			—	✓	—
			✓			—	✓	—
			✓			—	✓	—
	 SLOW1				✓			—
	  SLOW		✓			—	✓	—
	 SLOW2				✓			—
	 				✓			—
				✓			—	
 SLOW				✓			—	
 FLASH				✓			—	
				✓			—	
MULTI METERING			✓			—	✓	—
					✓			—
Metering target					✓			—
ORACLE AF					✓		✓ ^{*1}	—
					✓			—
 s					✓			—
 MF					✓			—
					✓			—
HI  ,  , AF 					✓ ^{*2}			—
BKT			✓			—	✓	—

Function		Mode	P	A	S	M	SCENE	
FUNCTION	PANORAMA		✓		—		✓	—
	BLACK & WHITE				✓			
	SEPIA				✓			
			—			✓	—	
	ACCESSORY				✓			
					✓			—
	Histogram target				✓			—
	(still pictures)				✓			—
	(movies)				—			✓
					—			✓
					✓			
	ISO				✓			
			✓			—		✓
	WB				✓			
					✓			
	CUSTOM WB SETTING				✓			—
	SHARPNESS				✓			
	CONTRAST				✓			
	HUE				✓			
	SATURATION				✓			
	SCENE MODES				✓			
	NOISE REDUCTION			✓				—
	ALL RESET				✓ ^{*3}			
	EV STEP				✓			
					✓			
	PW ON SETUP				✓			
	PW OFF SETUP				✓			
	REC VIEW				✓			—
	FRAME ASSIST				✓			—

Function \ Mode	P	A	S	M	SCENE	
			✓			
SHUTTER SOUND			✓			—
BEEP			✓			
MY MODE SETUP			✓			—
FILE NAME			✓			
PIXEL MAPPING			✓			
			✓			
			✓			
m/ft			✓			—
VIDEO OUT			✓			
SHORT CUT			✓			—
CUSTOM BUTTON			✓			—
DUAL CONTROL PANEL			✓			
USB			✓			
DIAL			✓			
 /SCENE			✓			—

✓: Available — : Not available

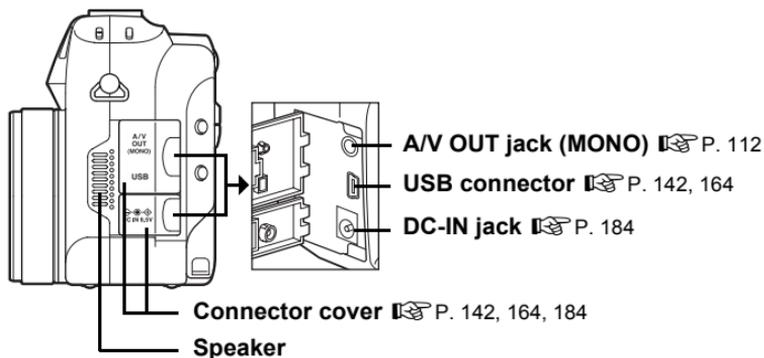
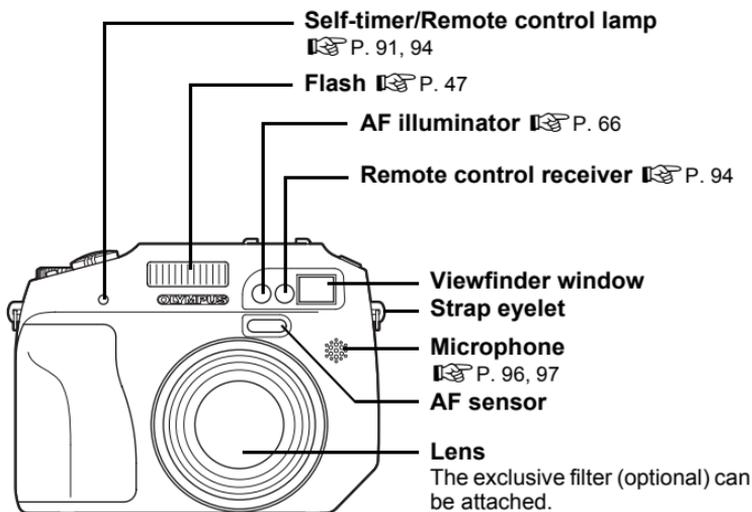
*1 Cannot be selected in , , , and  modes

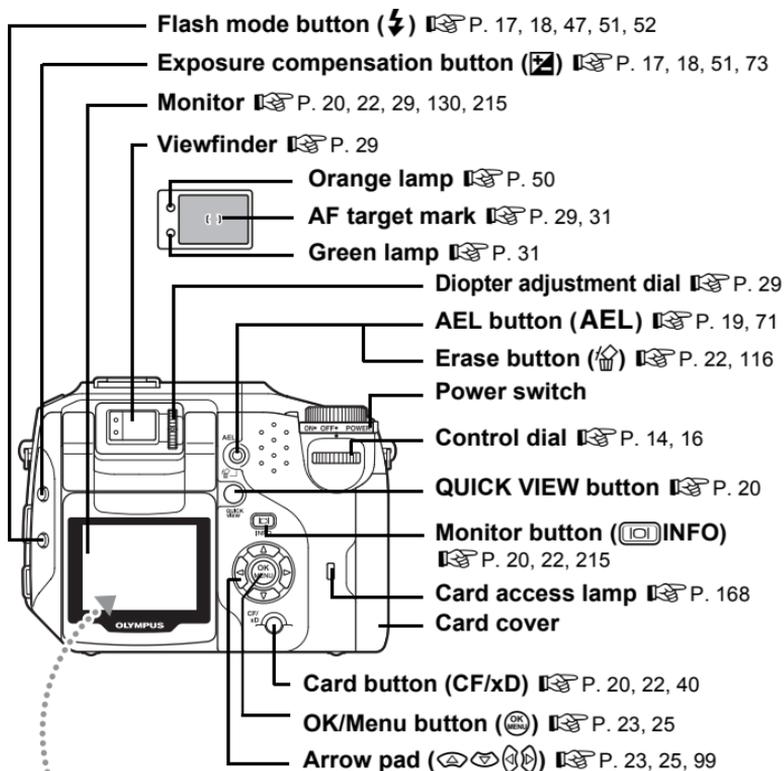
*2 Cannot be selected in  mode.

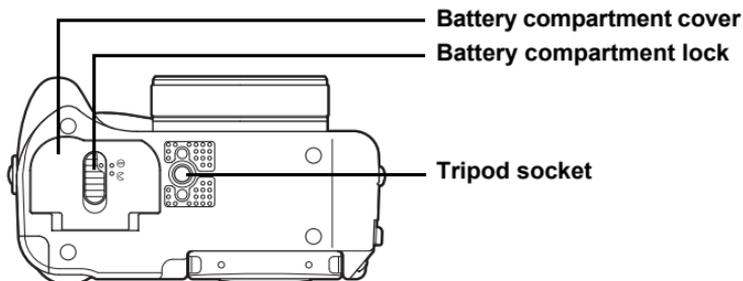
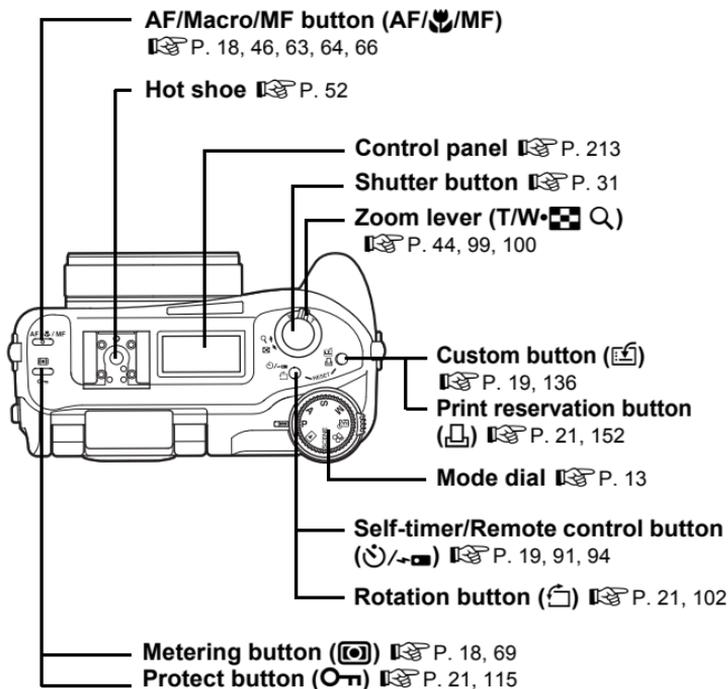
*3 Cannot be selected in  mode.

Names of parts

Camera







	Item	Indications	Ref. page
16	Sound record		P. 96, 97, 108
17	Record mode Image size	RAW, TIFF, SHQ, HQ, SQ 3072 × 2304, 2592 × 1944, 1024 × 768, 640 × 480, etc.	P. 33 P. 35
18	Number of storable still pictures/Remaining recording time Error codes	30, 36" -E-	P. 35 P. 174
19	Memory gauge		-
20	Metering	 ,  , MULTI 	P. 69
21	ISO	ISO	P. 72
22	White balance compensation	B1 – B7, R1 – R7	P. 78
23	White Balance	WB	P. 74
24	Hue	 -5 – +5	P. 81
	Saturation	 -5 – +5	P. 82
	Sharpness	 -5 – +5	P. 80
	Contrast	 -5 – +5	P. 81
25	Scene modes	 ,  , 	P. 80
26	Folder number	001	-
27	Card	 , 	P. 40

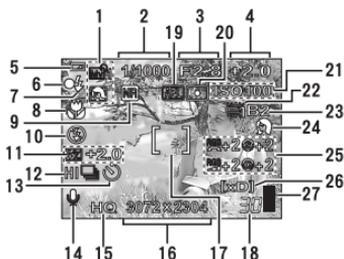
? TIPS

- Some items are only displayed on the dual control panel.
- The display format of the control panel may differ from the dual control panel.

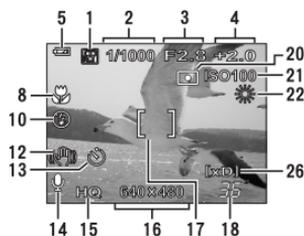
Monitor indications

The amount of information displayed on the screen can be changed by pressing . The screen with shooting information is shown below.  "Direct buttons" (P. 16)

● Shooting mode



Still picture

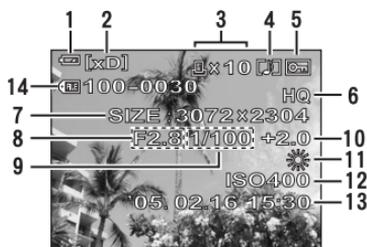


Movie

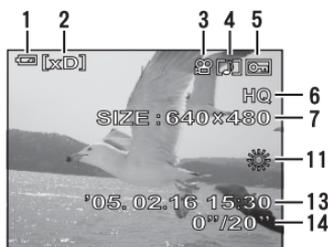
	Item	Indications	Ref. page
1	Shooting mode	P, A, S, M,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  , , , , , , , , , ,	P. 13, 42
2	Shutter speed	15" – 1/4000	P. 59
3	Aperture value	F2.8 – F11	P. 57
4	Exposure compensation Exposure differential	-2.0 – +2.0 -3.0 – +3.0	P. 73 P. 61
5	Battery check		–
6	Green lamp		P. 31, 71
7	Flash stand-by Camera movement warning, Flash charge	 (Lights)  (Blinks)	P. 51 P. 50
8	Macro mode Super macro mode Manual focus Super macro MF Oracle AF	    	P. 46 P. 46 P. 66 P. 46 P. 64
9	Noise reduction		P. 82

	Item	Indications	Ref. page
10	Flash mode	SLOW1, SLOW, SLOW2	P. 47
11	Flash intensity control	-2.0 – +2.0	P. 51
12	Drive (Still picture) Camera movement compensation (movie)	HI , AF , BKT	P. 89 P. 88
13	Self-timer Remote control		P. 91 P. 94
14	Sound record		P. 96, 97, 108
15	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P. 33
16	Image size	3072 × 2304, 2592 × 1944, 1024 × 768, 640 × 480, etc.	P. 35
17	AF target mark	[]	P. 31
18	Number of storable still pictures Remaining recording time	30 00:36"	P. 35 P. 87
19	AE lock AE memory	AEL MEMO	P. 71
20	Metering		P. 69
21	ISO	ISO 80, ISO 100, ISO 200, ISO 400	P. 72
22	White balance	C1 – C4,	P. 74
23	White balance compensation	B1 – B7, R1 – R7	P. 78
24	Scene modes		P. 80
25	Hue	-5 – +5	P. 81
	Saturation	-5 – +5	P. 82
	Sharpness	-5 – +5	P. 80
	Contrast	-5 – +5	P. 81
26	Card	[xD], [CF]	P. 40
27	Memory gauge		–

● Playback mode



Still picture



Movie

	Item	Indications	Ref. page
1	Battery check		-
2	Card	[xD], [CF]	P. 40
3	Print reservation/ number of prints Movie	[x10] 	P. 152 P. 103
4	Sound record	[♪]	P. 96, 97
5	Protect	[⊙]	P. 115
6	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P. 33
7	Image size	3072 × 2304, 2592 × 1944, 1024 × 768, 640 × 480, etc.	P. 35
8	Aperture value	F2.8 – F11	P. 57
9	Shutter speed	15" – 1/4000	P. 59
10	Exposure compensation	-2.0 – +2.0	P. 73
11	White balance	WB AUTO,	P. 74
12	ISO	ISO 80, ISO 100, ISO 200, ISO 400	P. 72
13	Date and time	'05.02.16 15:30	P. 123
14	File number Playing time/Recording time	FILE 100-0030 0"/20"	P. 151 P. 103

! Note

- The indications that appear on a movie picture that has been selected and displayed from the index display are different from those that appear when the movie picture is displayed using the movie playback function.

For reference page numbers relating to camera parts, see “Names of parts”.

1st curtain SLOW1	48, 51
1st curtain with red-eye reduction SLOW1	49, 51
2nd curtain SLOW2	48, 51
3:2	34

A

AC adapter.....	184
ACCESSORY	97
AE	193
AE lock 	19, 71
AE memory 	70, 72
AF illuminator.....	66
AF mode	18, 63
AF sequential shooting 	89
AF target mark	31, 65
AF/Macro/MF / /MF	18
ALL INDEX	143, 145
ALL PRINT.....	143, 145
ALL RESET	120
All-frame erase 	116
All-frame reservation 	152
Aperture priority shooting A	13, 57
Aperture value	57
Auto bracketing BKT	89, 90
Auto focus AF	18, 32
Auto white balance	74, 75
Auto-flash.....	17, 47
AV cable	112

B

Battery	189
Battery check.....	213, 215, 217
BEEP BEEP	126
Beep sound 	128
BKT.....	89, 90
BLACK & WHITE	92, 93

C

Camera movement compensation 	88
Camera movement warning.....	50
Card.....	35, 38, 191

CCD.....	132, 193
Center-weighted metering 	69
Close-up playback 	99
Cloudy day 	74
Color temperature value	75
CompactFlash.....	38, 191
Compression.....	34
CONTRAST 	81
Conversion lens 	97
COPY.....	114
CUSTOM BUTTON 	19, 136
CUSTOM WB SETTING.....	79
Custom white balance	75, 76
CUSTOM1 (DIAL).....	138
CUSTOM2 (DIAL).....	138

D

Date and time 	123
DCF	193
DIAL.....	138
DIGITAL ZOOM.....	45
Direct printing.....	141
DIRECT(Histogram).....	83
DPOF.....	151, 193
DRIVE.....	89
DUAL CONTROL PANEL.....	133

E

EDIT.....	109, 111
Error codes	150, 174
ESP metering.....	69, 194
EV	194
EV STEP.....	122
Evening sunlight 	74
Exposure.....	31, 71, 194
Exposure compensation 	73
Exposure differential	61, 89
External flash 	52

F

FILE NAME.....	131
File name	131
File No.	131

Fill-in flash  17, 47
 Flash 47
 Flash charging 50
 Flash intensity control  51
 Flash mode  17, 47
 Flash off  17, 48
 Flash stand-by 49
 Fluorescent lamp  74
 Focus 31, 63
 Focus lock 31
 FOCUS MODE 18
 Folder name 131
 FORMAT  117
 FRAME ASSIST 85
 FULLTIME AF 18, 63
 FUNCTION 92

H

HIGH 33
 High speed sequential shooting HI  89
 Histogram target mark 85
 Histogram  83
 HQ 33, 37
 HUE  81

I

iESP 63
 Image size 34, 194
 IN+  52
 INDEX 109, 110
 Index display  100, 101
 ISO 72, 194

J

JPEG 35, 38, 194

L

Landscape (SCENE MODES)  .. 80
 LANDSCAPE  42
 LANDSCAPE+PORTRAIT  42
 Lithium ion battery 189

M

Macro  18, 46
 Manual focus MF 18, 66
 Manual shooting M 13, 60
 Measurement unit m/ft  133
 Metering 69
 Microdrive 38, 185
 MODE MENU 23
 Monitor brightness adjustment  130
 Motion-JPEG 34, 36
 MOVIE PLAYBACK  103
 Movie recording  13, 87
 MULTI METERING MULTI  69
 MULTI PRINT 143, 145
 MY MODE  13, 62
 MY MODE SETUP  1/2/3/4 62, 124
 My mode/SCENE selection screen
 SCENE 139

N

Night scene (SCENE MODES)  80
 NIGHT SCENE  43
 NOISE REDUCTION NR 82
 NORMAL (DIAL) 138
 NORMAL (Record mode) 33
 NORMAL (SCENE MODES) 80
 NTSC 113, 195
 Number of storable still pictures 35

O

OLYMPUS Master 160, 165
 One-touch white balance  .. 75, 76
 Optical zoom 44
 ORACLE AF  18, 64
 ORF 35

P

PAL 113, 195
 PANORAMA 92
 PC (USB) 134, 164
 PictBridge 141, 195
 Picture rotation  21, 102

- PIXEL MAPPING 132
 Pixels 34, 195
 Playback mode  13, 99
 Playback on a TV 112
 Portrait (SCENE MODES)  80
 PORTRAIT  42
 PRESET1 (white balance) 74
 PRESET2 (white balance) 74
 Press fully 31
 Press halfway 31
 PRINT 143, 145
 PRINT (USB) 134
 PRINT ORDER 143, 145
 Print settings  21, 151
 Program shift **Ps** 57
 Program shooting **P** 13
 Protect  21, 115
 PW OFF SETUP 129
 PW ON SETUP 129
 PW ON/OFF SETUP 129
- R**
- RAW 34, 37
 RAW DATA EDIT 104
 Real display  mode 62
 REC VIEW 131
 Record mode  33, 37
 Recording sound  96, 97, 108
 Recording sound with movies  97
 Recording sound with still pictures  96
 REDEYE FIX 104, 108
 Red-eye reduction flash  17, 47
 Remaining recording time 35
 Remote control  19, 94
 Reset 119
 Resizing  104, 106
- S**
- SATURATION  82
 SCENE 42
 Scene mode shooting **SCENE** 13, 42
 SCENE MODES 80
 SCREEN SETUP 129
 Selecting a language  122
- Selecting the flash 52
 Self-timer  19, 91
 Self-timer/remote control  19
 SEPIA 92, 93
 Sequential shooting  89
 Shade  74
 SHARPNESS  80
 Shooting mode 13
 SHORT CUT 134
 Shortcut menus 23, 135
 SHQ 33, 37
 Shutter priority shooting **S** 13, 59
 SHUTTER SOUND 127
 Shutter speed 59
 Single-frame erase  22, 116
 Single-frame reservation  21, 152, 157
 Single-frame shooting  89
 SLAVE 55
 Sleep mode 99, 195
 Slideshow  102
 Slow synchronization  **SLOW** 48, 51
 Sound 126
 SPORT  42
 SPOT (AF mode) 63
 Spot metering  69
 SQ 33, 37
 STANDARD 141
 Sunny day  74
 Super macro MF  18, 46
 Super macro shooting  18, 46
- T**
- TIFF 33, 37, 195
 Top menu 23
 Trimming  104, 106, 148, 155
 Tungsten light  75
- U**
- UNDER WATER MACRO  43
 UNDER WATER WIDE  43
 Underwater housing  97
 USB 134
 USB cable 142, 164, 172

USB driver..... 161, 172

V

VIDEO OUT 113

VOLUME..... 128

W

White balance compensation  78

White balance **WB** 74

X

xD-Picture Card 38, 191

Z

Zoom..... 44

OLYMPUS®

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

OLYMPUS IMAGING CORP.

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

OLYMPUS IMAGING AMERICA INC.

Two Corporate Center Drive, PO Box 9058, Melville, NY 11747-9058, U.S.A. Tel. 631-844-5000

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

E-Mail: distec@olympus.com

Olympus software updates can be obtained at: <http://www.olympus.com/digital>

OLYMPUS 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/provider do not permit access or request an additional prefix to +800 numbers.

For all not listed European Countries and in case that you can't get connected to the above mentioned number please make use of the following

CHARGED NUMBERS: **+49 180 5 - 67 10 83** or **+49 40 - 237 73 899**

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