

CAMEDIA
DIGITAL CAMERA

C-7000 ZOOM C-70 ZOOM

Advanced Manual

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

Basic Operation

Basic Shooting

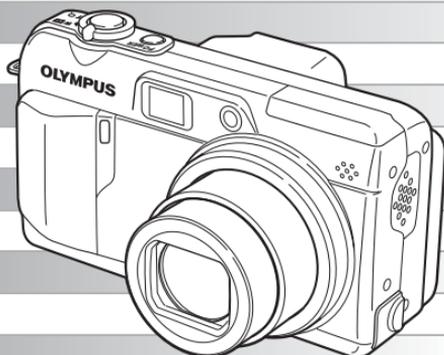
Advanced Shooting

Playing Back

Printing

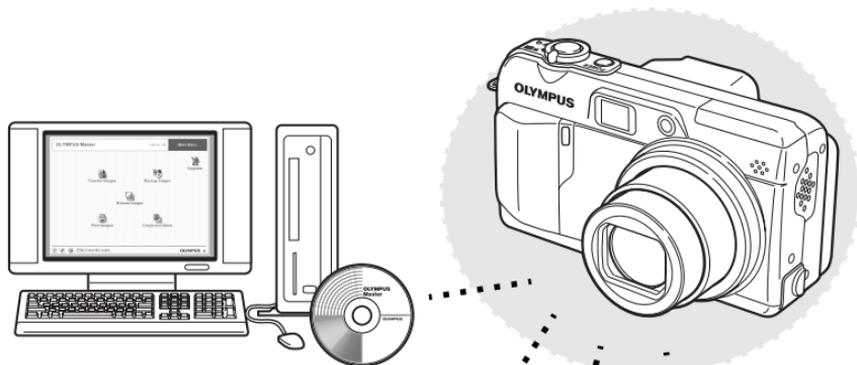
Online Pictures

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

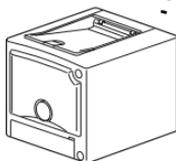


Using a computer...

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 an xD-Picture Card. By storing the relevant print reservation data with the images on the card, you can print pictures at a print shop or on a PictBridge-compatible printer.



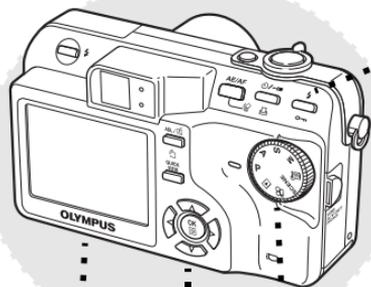
Using a printer...

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.



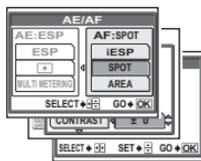
Using the mode dial...

Use the mode dial to select a shooting or playback mode. **SCENE** lets you select the optimum settings for the shooting conditions from 5 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.



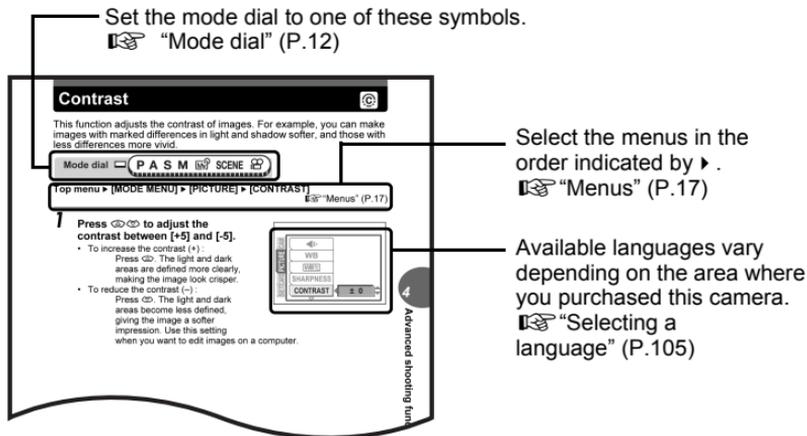
Using the menus...

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.

Explanation 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. 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

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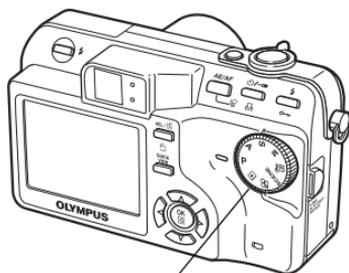
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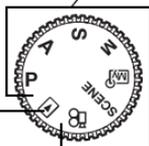
Mode dial

This camera features a mode dial for selecting the camera's mode. The modes are divided into shooting and playback modes, with shooting mode divided into 7 modes. Select the mode you want, then press the **POWER** switch to turn the camera on.



Playback mode

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



Shooting modes

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

● About the mode dial

Shooting modes	P	The camera automatically sets the aperture value and shutter speed.
	A	This function allows you to set the aperture manually. The camera sets the shutter speed automatically. P.43
	S	This function allows you to set the shutter speed manually. The camera sets the aperture automatically. P.44
	M	This function allows you to set the aperture and shutter speed manually. P.45
		This function allows you to set your own shooting parameters and register them as your original mode. P.46
	SCENE	This function allows you to select from 5 situation-related modes set to the shooting conditions. P.32
		This function allows you to record movies with sound. P.69
Playback mode		This function allows you to view still pictures and movies, as well as playback sound. P.81

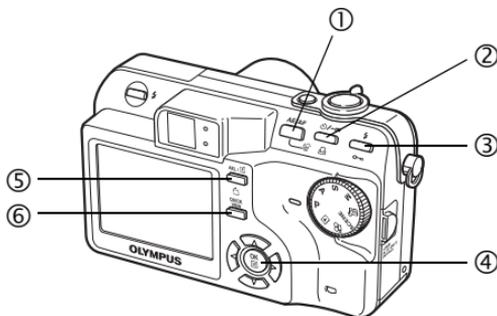
? TIPS

- The direct button functions and menu contents vary depending on the position of the mode dial. “Direct buttons” (P.13), “Menus” (P.17), “Menu list” (P.176)
- You can change the mode before and after turning the camera on.

Direct buttons

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

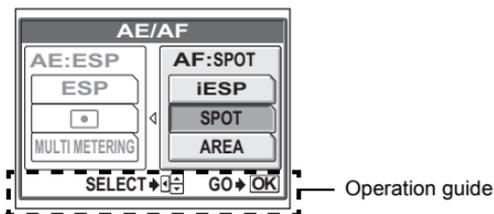
Using the direct buttons in shooting mode



① AE/AF button

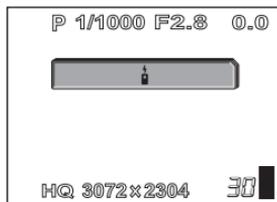
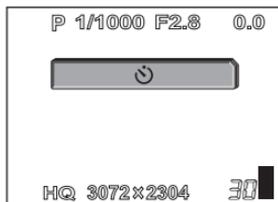
Pressing the **AE/AF** button displays the following screen. Select either AE (metering) mode or AF (focusing) mode. Follow the operation guide at the bottom of the screen to make settings.

☞ “Focusing applications” (P.46), “Metering” (P.52)



② (Self-timer/Remote control) button

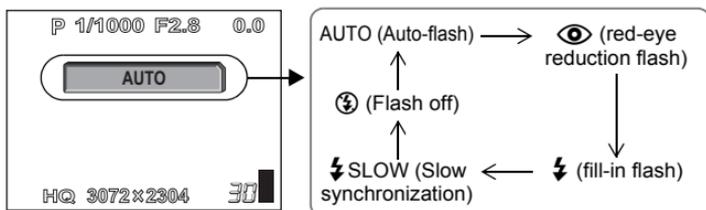
Press the  (self-timer/remote control) button repeatedly to change the setting. The setting alternates between the self-timer function and the remote control function. ☞ “Self-timer shooting” (P.73), “Remote control shooting (optional)” (P.77)



③ ⚡ (flash mode) button

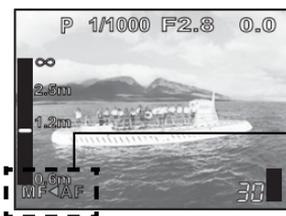
Press the ⚡ (flash mode) button repeatedly to change the setting. The setting changes in the following order with each press of the button.

➡ “Flash shooting” (P.37)



④ 🔍 button

The focus mode is alternately selected. Holding down 🔍 for more than 1 second displays the following screen. Press 🔍 to alternately select AF (Auto focus) and MF (Manual focus). ➡ “Manual focus” (P.50)



Currently, AF (Auto focus) is set. Press 🔍 to switch to MF (Manual focus).

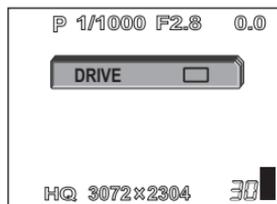
⑤ AEL (AE lock)/📄 (Custom) button

The exposure (AE) lock function is alternately activated and canceled each time you press the button. ➡ “AE lock” (P.54)

If a function is already assigned to the custom button, the function's setting switches each time you press the button. ➡ “Custom button” (P.119)



AE lock screen



Ex: When [DRIVE] is set on the custom button

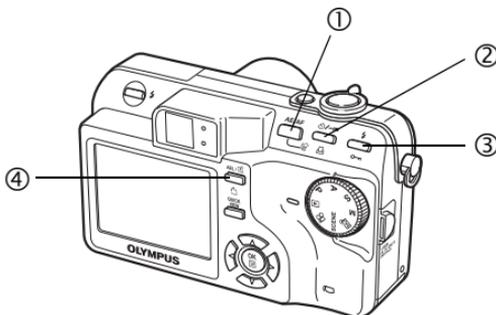
⑥ **QUICK VIEW** button

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

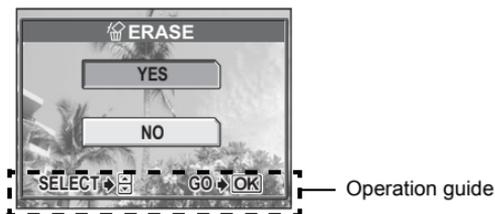
☞ “6 Playback” (P.80)

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

Using the direct buttons in playback mode

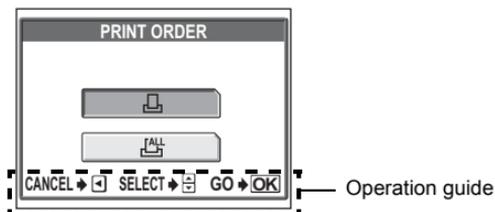
①  (Erase) button

Pressing the  (Erase) button after selecting a picture displays the following screen. Follow the operation guide at the bottom of the screen to erase the picture. ☞ “Erasing pictures” (P.99)



②  (Print reservation) button

Pressing the  (Print reservation) button displays the following screen. Follow the operation guide at the bottom of the screen to store print reservation data on the card.  “Print settings (DPOF)” (P.132)

③  (Protect) button

Pressing the  (Protect) button after selecting a picture sets the protect function.  “Protecting pictures” (P.98)

④  (Rotation) button

Pressing the  (Rotation) button after selecting a still picture rotates it. Each pressing rotates the image in the following sequence: 90° clockwise, 90° counterclockwise, and back to the original.  “Picture rotation” (P.86)

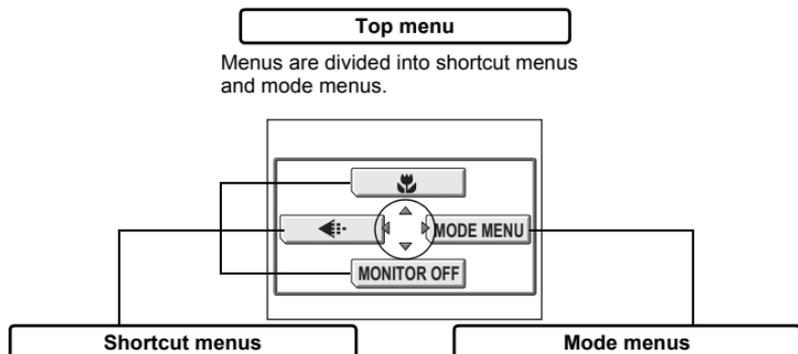


Menus

Menus are used to set functions. Press  to display the menu on the monitor.

About the menus

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



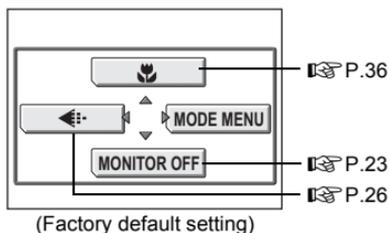
You can select menu items that are normally accessed from the mode menu. There are shortcut menus that allow you to select on/off.

The settings are categorized into tabs by function.

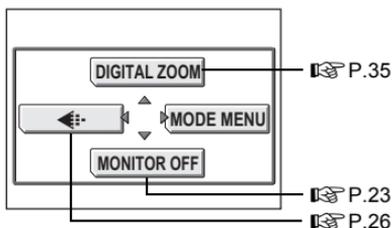
Shortcut menus

● Shooting modes

PASM  **SCENE mode**
(for still pictures)

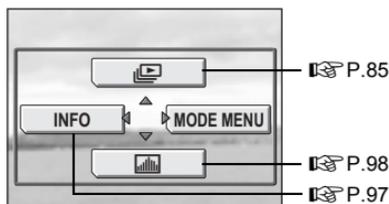


 **mode**
(for movies)

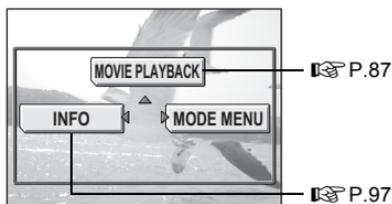


● Playback mode (mode)

Still picture

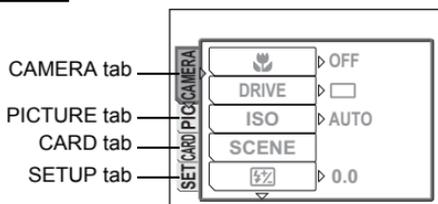


Movie

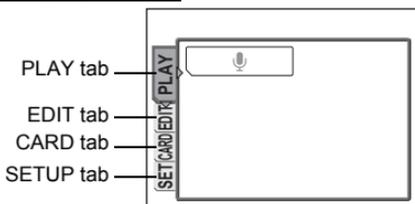


? TIPS

- The functions assigned to the shortcut menu can also be accessed from the mode menu. You can change the functions assigned to the shortcut menus to any mode other than  and .  "Shortcut" (P.117)

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 the memory card.
SETUP tab	For setting basic camera functions and functions for easy use of the camera.

● Playback mode ( mode)

PLAY tab	For recording sound.
EDIT tab	For editing saved pictures.
CARD tab	For formatting cards and erasing all image data.
SETUP tab	For setting basic camera functions and functions for easy use of the camera.

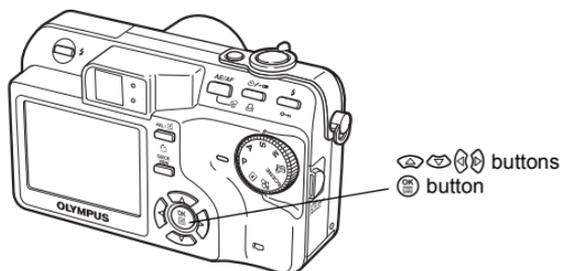
? TIPS

- In  mode, the mode menu differs in shooting mode and in playback mode. For details, see "Menu list" (P.176).
- For details of mode menu items in shooting mode and playback mode, see "Menu list" (P.176).

How to use the menu

Use the arrow pad and  to select and set the menu items. Follow the operation guide on the screen and use the arrow pad to set the items. How to use the menus is shown below.

Ex: Setting **[BKT]** (Auto bracketing)

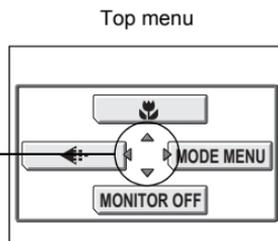


1 Press  in shooting mode.

- The top menu is displayed.

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

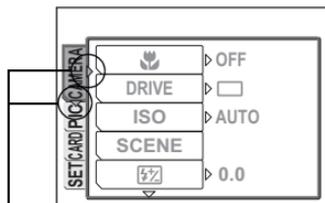
This refers to the arrow pad (   ).



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

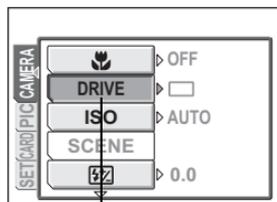
- Refer to the arrows on the screen to select a setting with the arrow pad.

This refers to the arrow pad ( ).



4 Press to select [DRIVE], then press .

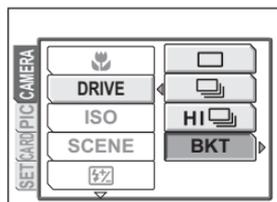
- Refer to the arrows on the screen to select a setting with the arrow pad.
- Unavailable settings cannot be selected.



The selected item appears indented.

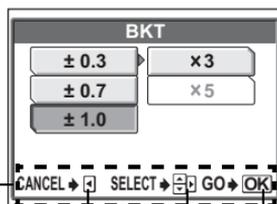
5 Press to select [BKT], then press .

- Refer to the arrows on the screen to select a setting with the arrow pad.



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

- Follow the operation guide at the bottom of the screen and use the arrow pad to select and set a setting.



Operation guide

Press  to cancel.

Press   to select a setting.

Press  to move settings.

Press  to make your selection.

? 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

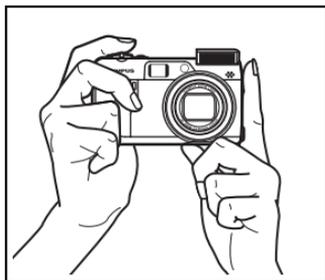
Sometimes when you look at a picture you have taken, the contours of the subject are blurred. This is often caused by movement of the camera at the precise moment that the shutter button is pressed.



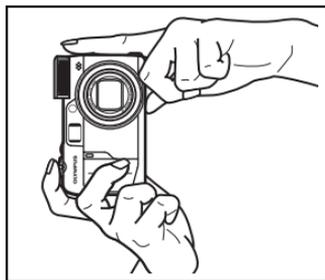
Picture where subject is not clearly defined

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

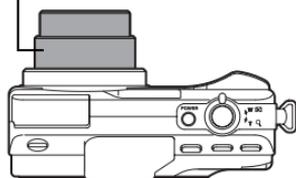


Vertical grip



Top view

Do not hold this part of the lens.



Turning the monitor on/off

You can take pictures with or without using the monitor.

MONITOR ON For taking pictures using the monitor (factory default setting)

MONITOR OFF For taking pictures using the viewfinder

Mode dial



Top menu ▶ [MONITOR OFF] / [MONITOR ON]

☞ "Menus" (P.17)

● Features of the monitor and viewfinder

	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

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.114)

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.

2

Tips before you start taking pictures

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)

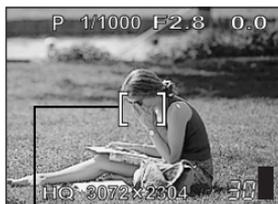
2
Tips before you start taking pictures

Mode dial

P A S M  SCENE 

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

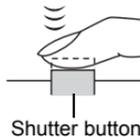
- When shooting a hard-to-focus subject or a fast-moving subject, point the camera at an object about the same distance away as the subject.



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.
- 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.

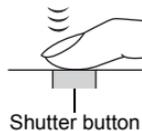


3 Keeping the shutter button pressed halfway, recompose your shot.

Green lamp



4 Press the shutter button fully.



? TIPS

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

☞ “AE lock” (P.54)

Fix the focus position.

☞ “AF lock” (P.49)

Focus on the subject in the center of the frame.

☞ “AF mode” (P.46)

Subjects that are difficult to focus on

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

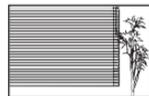
The green lamp blinks.
The subject cannot be brought into focus.



Subject with low contrast



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

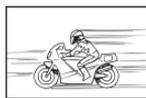


Subject without vertical lines

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



Subjects at different distances



Fast-moving subject



The subject to be focused on is not in the center of the frame

If this happens, focus on an object with high contrast at the same distance as the intended subject (focus lock), 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.50)



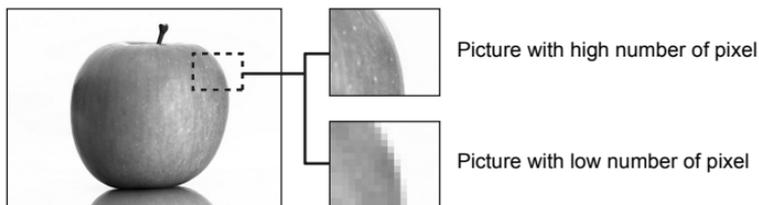
You can select a record mode in which to take pictures or shoot movies. Select the best record mode for your purpose (printing, editing on a computer, website editing, etc.). For information on the image sizes for each record mode and the memory capacity of the card, see the table on P.28.

Still picture record modes

2
Tips before you start taking pictures

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.



● Normal image modes

Application	Compression			
	Image size	Uncompressed	Low compression	High compression
Select according to print size	3072 × 2304	TIFF	SHQ	HQ
	2592 × 1944	JPEG	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. If the image will be printed, higher resolutions (larger numbers) are recommended so that the image will be clearer.

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 lab.	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 data as pictures on a computer. Plug-in software (available from the Olympus website) can also be used to view the data using Photoshop. 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.88)

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 lab 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

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
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 as 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.
- The number of storable still pictures/recording time is displayed on the monitor when a card is inserted in the camera.



Number of storable still pictures



Remaining recording time

! Note

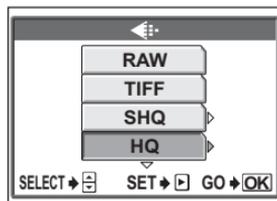
- The number of storable still pictures and movie recording times listed in the table are approximate.
- The number of storable still pictures may change according to the subject or factors like whether print reservations have been made or not. In certain instances, the number of remaining pictures does not change even when you take pictures or stored images are erased.
- If movies are shot with [VIDEO OUT] set to [PAL] and the AV cable connected, the movie recording time will differ from the time listed in the "Card capacity in number of pictures/remaining recording time" table.

To change the record mode

Mode dial P A S M  SCENE Top menu  "Menus" (P.17)

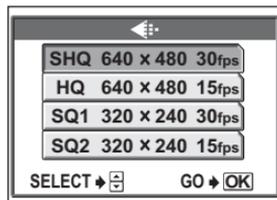
2 Tips before you start taking pictures

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



For still pictures

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

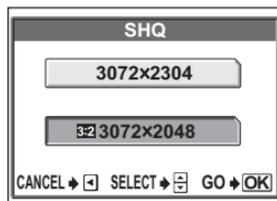


For movies

- 2** If you selected [SHQ], [HQ], [SQ1] or [SQ2], choose an image size.

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

- 3** Press .



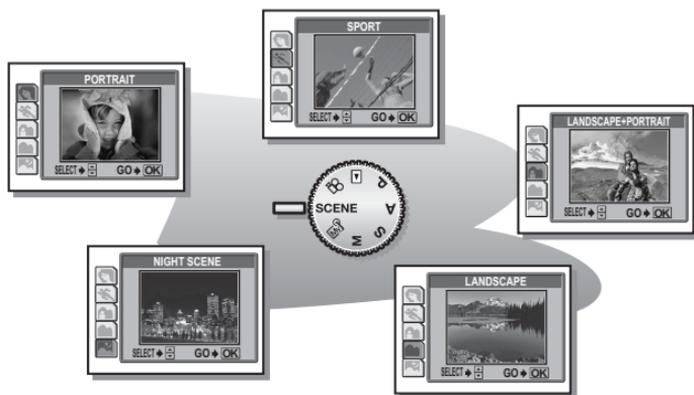
Basic shooting functions

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 them. 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

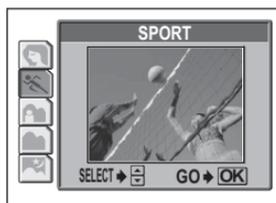
Portrait shooting

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



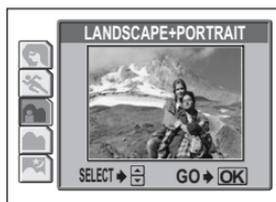
Sports shooting

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



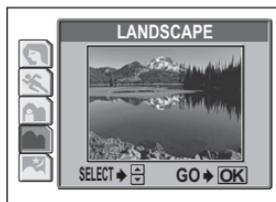
Landscape+Portrait shooting

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 shooting

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 shooting

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.



Mode dial  **SCENE**

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [SCENE] ▶
 [ (PORTRAIT)] / [ (SPORT)] / [ (LANDSCAPE+PORTRAIT)] /
 [ (LANDSCAPE)] / [ (NIGHT SCENE)]  "Menus" (P.17)

- When you choose a scene type, a sample scene appears on the right of the screen.

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 back to size. 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.

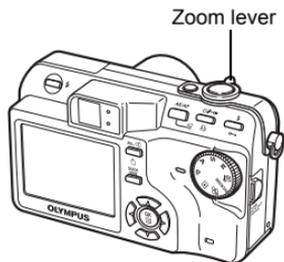
Optical zoom	5× (equivalent to 38 mm to 190 mm on a 35 mm camera)
Digital zoom	6×
Optical zoom + digital zoom	Max. 30×

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

Using the optical zoom

Mode dial  P A S M  SCENE

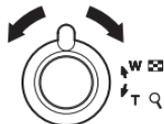
1 Push or pull the zoom lever.



Zoom out:
Push the zoom lever toward W.



Zoom in:
Pull the zoom lever toward T.

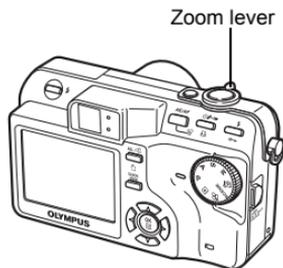


Note

- You can use the optical zoom in  mode by setting  to [OFF].
 “Recording sound with movies” (P.79)
- In  mode, the maximum magnification possible for digital zoom is 4×.

Using the digital zoomMode dial  **P A S M**  **SCENE**Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DIGITAL ZOOM] ▶ [ON] / [OFF]
 “Menus” (P.17)Mode dial  Top menu ▶ [DIGITAL ZOOM] ▶ [ON] / [OFF]  “Menus” (P.17)**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 appears 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 on 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 mode)

Focusing is usually slow when you get close to a subject (W: 8 cm/3.2" to 60 cm/23.6", T: 60 cm/23.6" to 120 cm/47.2"). 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 8 cm/3.2" 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 2 cm/0.8" to your subject. Subjects measuring approximately 3.4 × 2.5 cm (1.3" × 1.0") can be captured on the monitor. In the  mode, normal shooting is also possible, but the position of the zoom is fixed automatically and cannot be changed.



Mode dial 

P A S M  SCENE 

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

 "Menus" (P.17)

- Except in  mode, the setting can be made in the same way by selecting Top menu ▶  ▶ [OFF] /  / .

TIPS

The subject appears in shadow when the super macro mode is used.

- The auto focus may not be able to maintain the correct focus. If this happens, use the manual focus.  "Manual focus" (P.50)
- If the center of the frame (within the AF target mark) is metered when you are close to the subject and you shoot with the optimal exposure, the picture will come out well.  "ESP/Spot metering" (P.52)

Note

- During super macro shooting, the zoom and flash are not available.



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. 15 cm to 3.8 m (0.5 ft. to 12.5 ft.)

T (max.): Approx. 60 cm to 2.2 m (2.0 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, such as in a museum or art gallery. You can also use this mode when you want to shoot a natural-looking twilight or night scene. The flash does not fire when the flash is closed as well as when the flash mode is set to off.

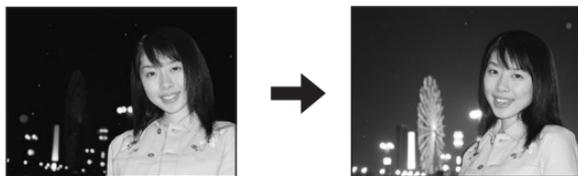
! Note

- 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/👁️⚡ SLOW1)

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.41)



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

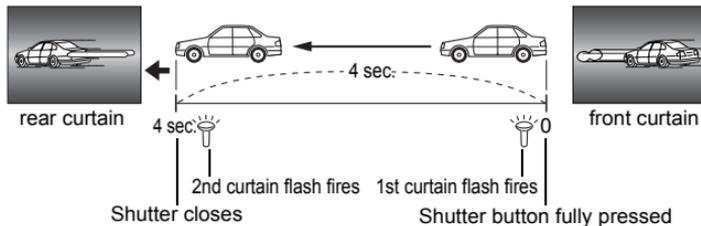
With 2nd curtain, the flash fires just before the shutter closes. Changing the flash timing can create interesting effects in your picture, such as expressing the movement of a car by showing the tail-lights streaming backwards. The slower the shutter speed, the better the effects turn out.

The slowest possible shutter speed depends on the shooting mode:

M mode : 15 sec.

P, A, S, M 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 brightly lit night background. A normal flash might make the person's eyes red, but 1st curtain with red-eye reduction lets you capture the background correctly and reduce the red-eye phenomenon at the same time. 2nd curtain with red-eye reduction is not available.

Mode dial  P A S M  SCENE

1 Press the flash button.

- The flash pops up.

2 Select a flash mode by repeatedly pressing the  button.

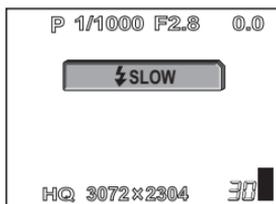
-  "Direct buttons" (P.13)

 (flash mode) button

Flash button



- If no operation is performed for about 3 seconds, the flash mode is set and the mode selection screen is automatically exited.

**3 Press the shutter button halfway.**

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

4 Press the shutter button fully to take the picture.

 mark



? TIPS**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) lights, the shutter speed locks at its current level. This helps prevent camera shake problems (shutter speeds that are too slow can cause blur). However, if the zoom magnification is increased, the camera will increase the locked shutter speed accordingly.

Zoom position	Shutter speed
W (max.)	1/30 sec.
T (max.)	1/160 sec.

Function restrictions according to mode

- [AUTO], [👁], [⚡], and [👁 ⚡SLOW1] are not available in **S** and **M** modes.
- The factory default setting for **S** and **M** modes is [⚡SLOW2]. The factory default setting for other modes is [AUTO].

! Note

- The flash does not fire in the following situations:
During sequential shooting ([📷], [HI📷], [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.

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. You can adjust the exposure in the range of ± 2.0 EV in $1/3$ EV steps.

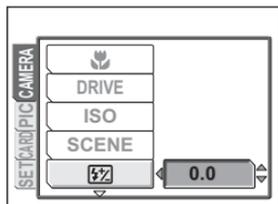
Mode dial P A S M SCENE

Top menu [MODE MENU] [CAMERA] []

"Menus" (P.17)

1 Adjust the light emission and press

- : Light emission is increased by $1/3$ EV each time you press the button. (EV : Exposure Value)
- : Light emission is decreased by $1/3$ EV each time you press the button.



Note

- The flash adjustment effect may not be sufficient if the shutter speed is too fast.

Slow synchronization



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

Mode dial P A S M SCENE

Top menu [MODE MENU] [CAMERA] [SLOW] [SLOW1] / [SLOW1] / [SLOW2]

"Menus" (P.17)

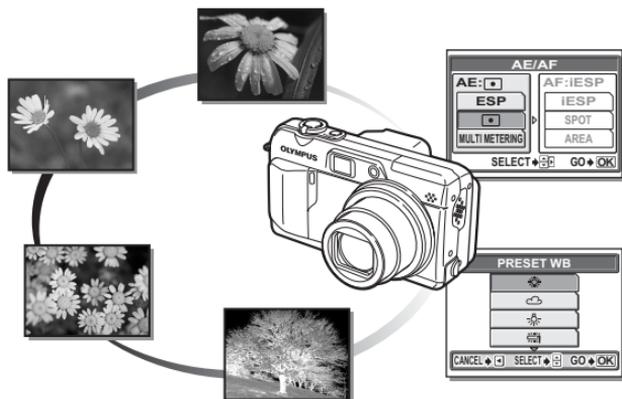
Advanced shooting functions

4

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.



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.



Aperture (F-number) is decreased.



Aperture (F-number) is increased.

Mode dial



1 Select the aperture value.

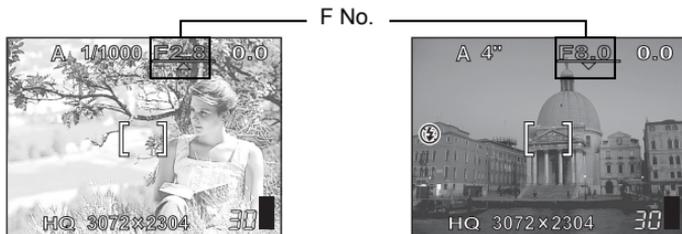
: Increases the aperture value.

: Decreases the aperture value.

Aperture range:

W: f2.8 to f8.0 T: f4.8 to f8.0

If the aperture value is displayed in red, the setting is unsuitable for the conditions. Take the following steps. (When the aperture value is displayed in green, the setting will provide optimum exposure.)



▲ appears: The image is overexposed.
Press to increase the aperture value.

▼ appears: The image is underexposed.
Press to decrease the aperture value.

! Note

- When the flash is set to the auto-flash mode, the slowest shutter speed is fixed at the level at which lights. (P.40)

Shutter priority shooting



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 the shutter speed higher lets you capture fast-moving action without blur. The subject will be clear and sharp, as if it is not moving.



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

4

Advanced shooting functions

Mode dial



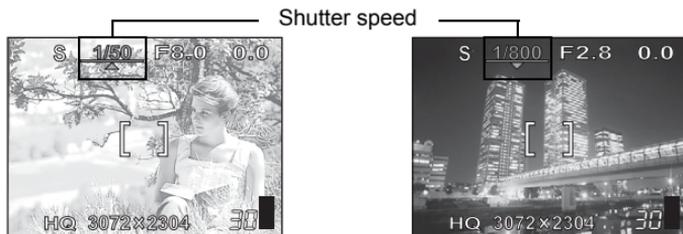
1 Select the shutter speed.

: Sets a faster shutter speed.

: Sets a slower shutter speed.

Setting range: 4" to 1/2000

If the shutter speed is displayed in red, the setting is unsuitable for the conditions. Take the following steps. (When the shutter speed is displayed in green, the setting will provide optimum exposure.)



▲ appears: The image is overexposed. Press to set a faster shutter speed.

▼ appears: The image is underexposed. Press to set a slower shutter speed.

! Note

- The shutter speeds that can be set vary depending on the flash setting and aperture value.

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

M

1 Set the aperture and shutter speed.

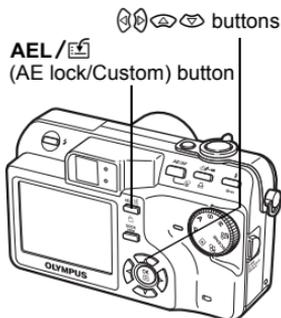
-  : The aperture value increases.
-  : The aperture value decreases.
-  : The shutter speed increases.
-  : The shutter speed decreases.

Aperture range:

Aperture value: f2.8 to f8.0 (W)
f4.8 to f8.0 (T)

Shutter speed: 15" to 1/2000

- When the shutter button is halfway pressed, the difference (ranging from -3.0 to +3.0 EV) between the exposure determined by the currently selected aperture and shutter speed compared to the exposure level considered optimal by the camera is displayed.
- If the exposure differential appears in red, it indicates that the exposure differential is less than -3.0 EV or more than +3.0 EV.



Exposure differential



? TIPS

- When AE lock is registered to the custom button and you press the **AEL/AF-LOCK** button, the screen on the right appears with the bar indicating the current exposure differential.



! 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.

This function lets you shoot with the settings in [My1 MY MODE 1] to [My4 MY MODE 4]. Only the settings in [My1 MY MODE 1] have already been saved. You cannot select [My2 MY MODE 2] to [My4 MY MODE 4] if no settings have been saved in them. “My Mode setup” (P.110)

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]

“Menus” (P.17)

! Note

- The settings you are currently using can also be saved for retrieving by this mode, but the saved zoom position may deviate slightly from that currently used. “My Mode setup” (P.110)

Focusing applications

AF mode

This function allows you to select the focus range of your subject.

- iESP** Focus selection is based on the entire picture on the screen. Even when the subject is not in the center of the screen, focusing is possible.
- SPOT** Focus selection is based on the subject within the AF target mark.



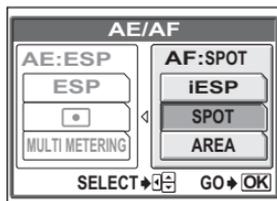
Subject suitable for [iESP] focus mode



Subject suitable for [SPOT] focus mode

Mode dial  P A S M  SCENE

- 1 Press the AE/AF button.
 "Direct buttons" (P.13)
- 2 Select [iESP] or [SPOT] for the AF mode 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, letting you take successive snapshots. The subject is also 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] ▶ [FULLTIME AF] ▶ [ON] / [OFF]
 "Menus" (P.17)

Note

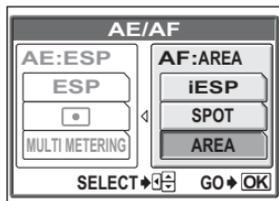
- Battery consumption increases when Fulltime AF is used.
- Fulltime AF cannot be used when  is set to [ON] in  mode.

AF area

You can select the area you want to focus on by changing the position of the AF target mark.

Mode dial  P A S M  SCENE

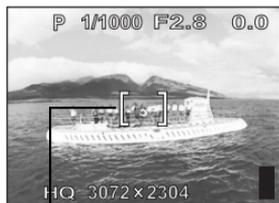
- 1 Press the **AE/AF** button.
☞ "Direct buttons" (P.13)
- 2 Select **[AREA]** for the AF mode and press .



- 3 Use the arrow pad to move the AF target mark to the area you want to focus on.

- 4 Take the picture.

- Press the **AE/AF** button again to exit AF target mark selection mode.



AF target mark

Note

- AF area is not available when the [DIGITAL ZOOM] is set to [ON].
- The location of the AF target mark cannot be saved.

TIPS

To change the aperture value, shutter speed or exposure while moving the AF target mark

→ Holding down the **AE/AF** button for more than 1 second lets you change the aperture value, shutter speed and exposure with the arrow pad while moving the AF target mark. To return to the screen for selecting the AF area, press the **AE/AF** button again.

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.



Mode dial  P A S M  SCENETop menu ▶ [MODE MENU] ▶ [SETUP] ▶ [AF ILLUMINATOR] ▶ [ON] / [OFF]  "Menus" (P.17)**! 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.

AF lock

This feature is for locking the focus easily. Register the AF lock function to the **AEL/** button.  "Custom button" (P.119)

Mode dial  P A S M  SCENE**1 Position the AF target mark on the subject you want to focus on and press the AEL/** **button.**

- The focus is locked and the AF lock mark is displayed.
- To reset AF lock, press the **AEL/** button again to cancel AF lock. Each time you press the **AEL/** button, AF lock is alternately engaged and canceled.

When the **AEL/** button is pressed

When focus is locked



AF lock mark

2 Press the shutter button fully.

? TIPS

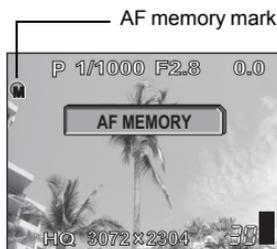
How to save the locked focus after shooting (AF memory)

→ Hold down the **AEL** /  button for more than 1 second. The AF memory mark appears. When the mark appears, the locked focus is memorized. To cancel AF memory, press the **AEL** /  button again.

AF lock was canceled.

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

→ The camera was reactivated from sleep mode or the power was turned off.



! Note

- The focus may be compromised by adjusting the zoom after setting AF lock. Adjust the zoom before setting AF lock.

Manual focus



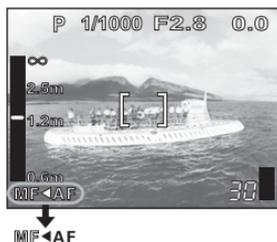
If auto focus is unable to focus on a subject, use manual focus.



1 Hold down  for more than 1 second.

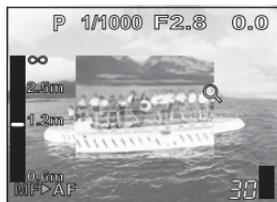
- The distance indicator is displayed on the monitor.

2 Press  to select [MF].



3 Press to set the focus distance.

- During operation, the area you are focusing on is enlarged. This lets you check whether the focus is in the right position.
- The distance indicator on the left of the monitor is for reference only.
- When the indicator is moved to less than 0.6 m (2.0 ft.), the display automatically switches to the 8 cm (0.3 ft.) to 60 cm (2.0 ft.) display.



4 Hold down for more than 1 second to save the setting.

- [MF] is displayed in red on the monitor.

5 Take the picture.

- The focus is locked at the distance you have set.

TIPS

To cancel manual focus

- 1 Hold down  for more than 1 second to display the distance indicator.
- 2 Press  to select [AF], then press .

How to shoot while keeping the same focus distance at all times

- Lock the focus distance at the focus lock position.
 - 1 Position the AF target mark on a subject at the desired distance and press the shutter button halfway.
 - 2 Keeping the shutter button half-pressed, press .
 - The distance indicator is displayed.
 - [MF] is selected and the focus distance is locked at the focus lock position.

Even if you move the cursor to the top of the distance indicator, focusing is not possible at ∞.

- Using the monitor, adjust the cursor position by pressing  .

Note

- If the zoom lever is pressed after performing manual focus, the saved focus distance may be compromised. Perform setting again.

Metering

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

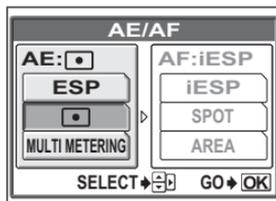
- ESP** Meters the center of the subject and the surrounding area separately.
-  Exposure is determined by metering within the AF target area. In this mode, a subject can be shot with optimal exposure regardless of the background light.
- MULTI METERING** Meters the brightness of the subject at up to 8 different points to set the optimal exposure based on the average brightness. This method is useful with a high contrast subject.

ESP/Spot metering



Mode dial  P A S M  SCENE

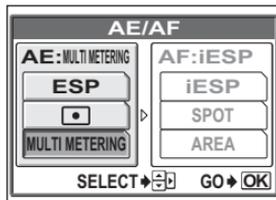
- 1 Press the AE/AF button.
 "Direct buttons" (P.13)
- 2 Select [ESP] or  for the AE mode and press .



Multi-metering

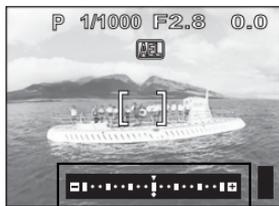
Mode dial  P A S  SCENE

- 1 Press the AE/AF button.
 "Direct buttons" (P.13)
- 2 Select [MULTI METERING] for the AE mode and press .



3 Position the AF target mark on the area you want to meter and press the AEL/AF-ON button.

- The multi-metering bar appears.
- The brightness is metered at up to 8 different points. Brightness meter readings are ignored after the 9th reading.
- To perform metering again, hold down the AEL/AF-ON button for more than 1 second to display **MEMO**. Press the AEL/AF-ON button again to cancel the metering values.
- If a function other than AE lock is assigned to the AEL/AF-ON button, set AE lock to the button. "Custom button" (P.119)

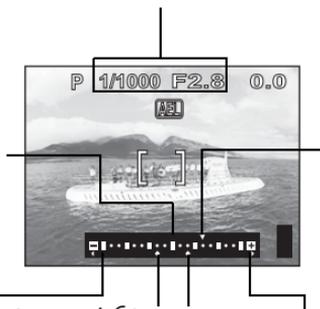


Multi-metering bar

Ex: When metering 2 points (pressing the AEL/AF-ON 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 metering point is added.

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



The reading when the AEL/AF-ON button was pressed. The number of indicates the number of times you have pressed the button. The distance from the center of the bar indicates the difference between the metered and average readings.

Indicates how much the present exposure you are metering differs from the average exposure value. The present exposure can be locked by pressing the shutter button halfway. (The present exposure is not added to the average value unless you press the AEL/AF-ON button.)

When moves more than ± 3 from the center of the bar (the average reading), are displayed.

? TIPS**To save the locked multi-metering exposure after shooting (AE memory)**

→ After metering in Step 3, hold down the **AEL** /  button for more than 1 second. **MEMO** appears. While **MEMO** is displayed, the exposure is saved. Press the **AEL** /  button again to cancel the AE memory.

The multi-metering exposure is canceled.

→ If you operate any of the buttons or the mode dial after metering in Step 3, the multi-metering exposure is canceled.

→ The multi-metering exposure is canceled when the monitor is turned off.

AE lock**AEL**

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

Example:



The subject appears dark because the sky is bright.



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

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

1

Compose the picture where you want to lock the metered value (exposure), then press the **AEL /  button.**

 "Direct buttons" (P.13)

- The exposure is memorized.
- To reset AE lock, press the **AEL** /  button again to cancel AE lock. Each time you press the **AEL** /  button, AE lock is alternately engaged and canceled.



During AE lock, **AEL** is displayed.

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

- The green lamp lights.
- AE lock cannot be canceled while the shutter button is pressed halfway.

3 Press the shutter button fully.

- AE lock is automatically canceled after one shot.



? TIPS

To save the locked metered value (exposure) after shooting (AE memory)

- After Step 1 or 2, hold down the **AEL**/ button for more than 1 second. **MEMO** appears. While **MEMO** is displayed, the exposure is saved. Press the **AEL**/ button again to cancel AE memory.

AE lock was canceled.

- Do not operate any of the buttons or the mode dial after performing AE lock. Doing so will cancel AE lock.
- The camera was reactivated from sleep mode or the monitor turned off when power was turned off.

! Note

- If a function other than AE lock is assigned to the **AEL**/ button, set AE lock to the button.  "Custom button" (P.119)
- AE lock is not available when multi-metering is enabled. Select [ESP] or .  "Metering" (P.52)

ISO sensitivity

The higher the ISO value, the greater the camera's light sensitivity and the better its ability to shoot in low light conditions. However, higher values also introduce electrical noise into the resulting image, which may give it a grainy appearance.

AUTO

Sensitivity is automatically adjusted according to the light conditions and the subject brightness.

80/100/200/400

With a lower ISO setting, you can shoot clear, sharp images in daylight. With a higher ISO setting, you can use faster shutter speeds with the same amount of light.

Mode dial



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [ISO] ▶ [AUTO] / [80] / [100] / [200] / [400]  "Menus" (P.17)

Note

- [AUTO] is not available in **A**, **S** or **M** mode.
- ISO settings are based on the sensitivity of normal camera film. The scale is approximate.
- When [ISO] is set to [AUTO] and you are shooting in dark conditions without a flash, the shutter speed is reduced. In this case, the sensitivity is automatically increased to avoid the risk of camera movement.
- If the subject is too far away for the flash illumination to reach when [ISO] is set to [AUTO], the sensitivity is automatically increased.

Exposure compensation



This function allows you to make fine changes to the exposure setting. You can adjust the exposure in the range of ± 2.0 EV in $1/3$ EV steps. When the setting is changed, you can check the result on the monitor.

Mode dial

P A S



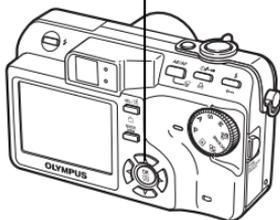
SCENE



1 Press to select a setting.

- Adjust toward +: Press to adjust up to +2.0 EV in $1/3$ EV steps.
- Adjust toward -: Press to adjust up to -2.0 EV in $1/3$ EV steps.

buttons



-2.0



0.0



+2.0

? TIPS

- Often bright subjects (such as snow) will turn out darker than their natural colors. Adjusting toward + makes these subjects closer to their real shades. For the same reason, adjust toward - when shooting dark subjects.
- In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually.

! Note

- If the flash is used, the image brightness (exposure) may differ from the intended brightness.
- Exposure compensation cannot correct the image if the surroundings of the subject are extremely bright or dark.

4

Advanced shooting functions

Color reproduction differs depending on the light 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.

AUTO PRESET

Automatically adjusts the white balance for any light source.

Selects a preset white balance setting according to the type of light.

: For shooting on a sunny day.

: For shooting on a cloudy day.

: For shooting under a tungsten light.

: For shooting under a daylight fluorescent lamp. This type of lamp is used mainly in homes.

: For shooting under a neutral white fluorescent lamp. This type of lamp is generally used in desk lamps, etc.

: For shooting under a cool white fluorescent lamp.

This type of lamp is generally used in offices, etc.

This function is useful when you need 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 adjust the white balance.



Auto white balance

Mode dial  P A S M  SCENE 

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

 "Menus" (P.17)

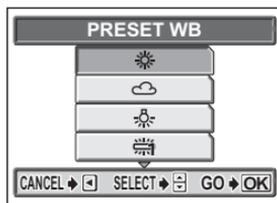
Preset white balance

Mode dial  P A S M  SCENE 

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

 "Menus" (P.17)

- 1 Select a white balance setting and press .



? TIPS

- You can also preview different color tones by trying the different [PRESET WB] settings under the actual light source and checking the result on the monitor.

One-touch white balance



Mode dial

P A S M SCENE

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

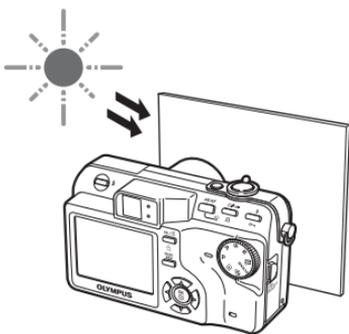
“Menus” (P.17)

1 Display the ONE TOUCH WB] screen and point the camera at a sheet of white paper.

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

**2** Press .

- The white balance is set and the screen returns to the mode menu.



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.
- After setting a white balance other than [AUTO], play back the picture and 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 changes to the current white balance setting.

Mode dial



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

☞ “Menus” (P.17)

1 Press to adjust the white balance, and when you have selected the desired level, press .

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



WB adjustment indicator

4

Advanced shooting functions



This function adjusts the sharpness of the image.

Mode dial

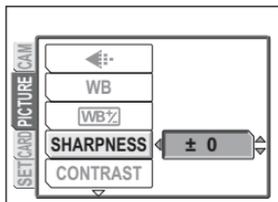
P A S M SCENE

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

“Menus” (P.17)

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

- To increase the sharpness (+) :
Press . The image contours are emphasized, making the image appear sharper and more vivid. Use this setting when you want to print pictures.
- To reduce the sharpness (-) :
Press . 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 images. For example, you can make images with marked differences in light and shadow softer, and those with less differences more vivid.

Mode dial □

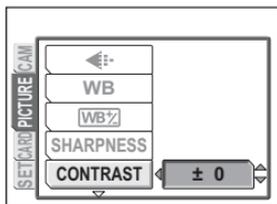
P A S M SCENE

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

"Menus" (P.17)

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

- To increase the contrast (+):
Press . The light and dark areas are defined more clearly, making the image look crisper.
- To reduce the contrast (-):
Press . 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.



Saturation



This function adjusts the color depth.

Mode dial □

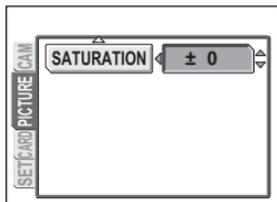
P A S M SCENE

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

"Menus" (P.17)

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

- To increase the saturation (+):
Press . Colors become darker and more intense.
- To reduce the saturation (-):
Press . Colors become lighter.



4

Advanced shooting functions

When shooting in dark places, shutter speeds become slower as there is less light focused on the CCD. During long exposures, signals are generated by parts of the CCD where no light is focused and are recorded on the image as noise. When [NOISE REDUCTION] is set to [ON], the camera automatically reduces the noise to produce clearer images.

ON Noise is reduced. Shooting time is 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 with slow shutter speeds.



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

Mode dial

P A S M



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [NOISE REDUCTION] ▶ [ON] / [OFF]

“Menus” (P.17)

! Note

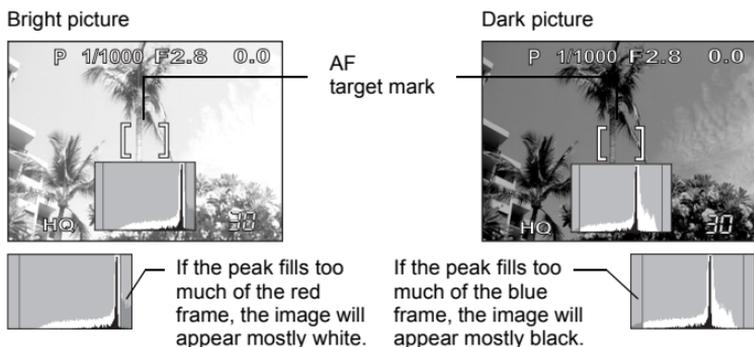
- [NOISE REDUCTION] is always set to [ON] when the **SCENE** mode is set to [NIGHT SCENE].
- When [NOISE REDUCTION] is set to [ON], the camera implements noise-reducing processes after each shot to produce clearer images. However, shooting time is approximately twice as long as usual. During this time, the next shot cannot be taken.
- When [NOISE REDUCTION] is set to [ON], sequential shooting ([HI], [BKT]) is not possible.
- This function may not work effectively with some shooting conditions or subjects.



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. Displaying the brightness and contrast of your subject enables fine adjustment of the exposure.

- OFF** Hides the histogram.
- ON** Displays the histogram for every picture.
- DIRECT** Displays the black and white areas directly on the picture.

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



The part indicated in green in the histogram shows the luminance distribution within the AF 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 M  SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶  ▶ [OFF] / [ON] / [DIRECT]
 "Menus" (P.17)

- In **M** mode, when  is not set to [OFF], the subject is displayed on the monitor at the appropriate brightness for the selected exposure.

! Note

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

Displaying shooting information

INFO

This function lets you display detailed shooting information on the monitor in the playback mode. For details of the information displayed, see "Monitor indications" (P.188).

Example:



When [INFO] is [ON]



When [INFO] is [OFF]
 The information is displayed for 3 seconds after changing the settings.

Mode dial  P A S M  SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [INFO] ▶ [OFF] / [ON]
 "Menus" (P.17)

! Note

- If  is set, the histogram is displayed regardless of whether [INFO] is set to [ON] or [OFF].

Frame assist

A frame is displayed on the monitor to help you compose your pictures.



Mode dial



Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FRAME ASSIST] ▶ [OFF] / [ON]  "Menus" (P.17)

Note

- The frame is not displayed during panorama shooting.



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.

- You can adjust the zoom during movie recording.
- The card access lamp blinks while the movie is 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.
- When there is space in the card memory, the remaining recording time (P.28) is displayed, and the camera is ready to shoot.

? 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.47), “Recording sound with movies” (P.79)

To use the zoom during movie recording

→ Set [DIGITAL ZOOM] to [ON]. “Using the digital zoom” (P.35)
→ If you set [M] to [OFF], you can use the optical zoom during movie recording.
 “Recording sound with movies” (P.79)

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.100)
- 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.93)
- 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.

Sequential shooting

There are 3 sequential shooting modes: sequential shooting, high speed sequential shooting and auto bracketing. To set a sequential shooting mode, go to [DRIVE] on the mode menu.

Drive settings

-  Shoots 1 frame at a time when the shutter button is pressed. (Normal, single-frame shooting mode)
-  The focus, exposure and white balance are locked at the first frame. Approx. 10 frames at 1.1 frames/sec. (in HQ mode)
- HI**  Pictures can be taken at a faster speed than normal sequential shooting. A maximum of 2 frames at approx. 2.2 frames/sec.
- BKT** Under some conditions, you may obtain better results shooting with exposure compensation than by using the exposure setting considered optimal by the camera.

When **[BKT]** is set, the exposure is changed automatically for each frame when you start shooting. 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 $[\pm 1.0]$ $[\times 3]$



-1.0



0.0



+1.0

Sequential shooting/High speed sequential shooting



Mode dial P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DRIVE] ▶ / "Menus" (P.17)

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.
- High speed sequential shooting stops after taking 2 frames.

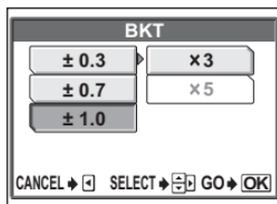
Auto bracketing

BKT

Mode dial P A S SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [DRIVE] ▶ [BKT] "Menus" (P.17)

1 Select the exposure differential and number of shots and press



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.

5

More useful functions

Note

- Sequential shooting ([], [**HI**], [**BKT**]) is not possible in the following situations.
 - When [] is selected for the **SCENE** mode, when [] is set to [TIFF] or when [NOISE REDUCTION] is set to [ON].
- High speed sequential shooting can only be used when [] is set to [RAW].
- The flash does not fire during sequential shooting ([], [**HI**], [**BKT**]).
- 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.

5

More useful functions

Time lapse shooting



This function lets you take a sequence of pictures automatically under preset conditions. It is useful, for example, for taking pictures at specific intervals of a flower opening. You are recommended to use a fully charged battery or AC adapter when shooting over prolonged periods.

Mode dial

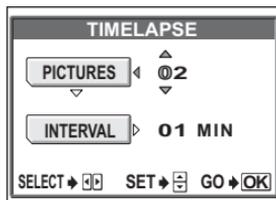
P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [TIMELAPSE] ▶ [ON] / [OFF]
 "Menus" (P.17)

1 Set the [PICTURES] and [INTERVAL].

- : Selects the item or sets the number.
- : Selects the column.

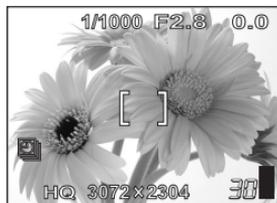
Setting range Number of pictures: 2 to 99
 Interval: 1 min. to 60 min. in 1 min. increments



2 Press .

3 Press the shutter button.

- The first picture is taken and the second and subsequent pictures are taken automatically at the preset interval.
-  lights during time lapse shooting.
- The camera automatically enters the sleep mode after the first picture has been taken and stored on the card. The camera is automatically reactivated 4 seconds before taking the next picture.
- The camera turns off automatically when the preset number of pictures has been taken.



Note

- During time lapse shooting, the self-timer, remote control and sequential shooting functions are not available.
- If any of the following operations is performed while the camera is in sleep mode, time lapse shooting is canceled and the camera returns to the normal shooting mode.
 - When the battery compartment/card cover is opened, the camera is connected to a computer or the shutter button, arrow pad or any other button is pressed.
- Operation of the buttons, mode dial and zoom lever is invalidated from 4 seconds before shooting until after the picture has been taken.
- If the battery power or card memory runs out while the camera is in the sleep mode, a warning appears, time lapse shooting is terminated and the camera turns off automatically.

Self-timer 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 Select by repeatedly pressing the button.

 "Direct buttons" (P.13)

- If no operation is performed for about 3 seconds, the self-timer mode is set and the mode selection screen is automatically exited.

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 12 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 is attempted in self-timer mode, the camera shoots 5 frames at most regardless of the setting.

5

More useful functions

Function shooting (black & white/sepia)

This feature lets you add a special black & white or sepia effect to your pictures.

Mode dial 

P A S M  **SCENE** 

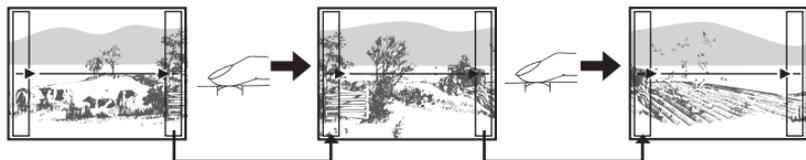
Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [FUNCTION] ▶ [BLACK & WHITE] / [SEPIA] / [OFF]  "Menus" (P.17)

Note

- White balance, white balance compensation and saturation cannot be used during function shooting.

Panorama shooting

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.



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).

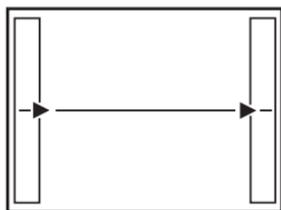
Mode dial  P  SCENE

Top menu ▶ [MODE MENU] ▶ [CAMERA] ▶ [PANORAMA]

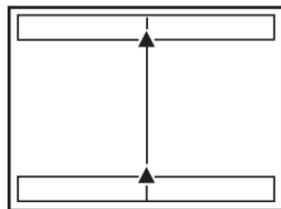
 "Menus" (P.17)

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



Connects pictures from bottom to top

5

More useful functions

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 appears.



3 Press to exit panorama shooting.

Note

- The panorama mode is only available with Olympus cards.
- Your computer's memory may be insufficient if you take too many panorama pictures in HQ or SHQ mode. You are recommended to use SQ mode for panorama shooting.
- During panorama shooting, the flash and sequential shooting modes are not available.
- Panorama images are saved in HQ (compressed) format which has the same image size as RAW (uncompressed) and TIFF (uncompressed) when the record mode is set to [RAW] or [TIFF].
- 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.

Remote control shooting (optional)



This function lets you take pictures using the optional remote control device (RM-1E). 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.

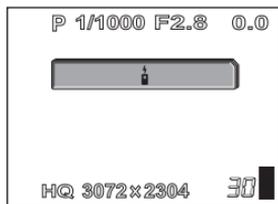
2 Select [M] by repeatedly pressing the button.

"Direct buttons" (P.13)

- If no operation is performed for about 3 seconds, the remote control mode is set and the mode selection screen is automatically exited.

3 Press the shutter button on the remote control device.

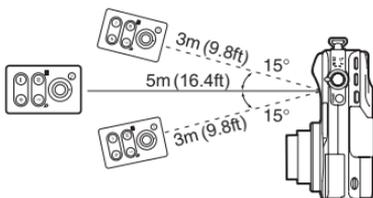
- The focus and exposure are locked and the self-timer/remote control lamp blinks for about 2 seconds before taking the picture.



Remote control receiver



Self-timer/
Remote control lamp



? TIPS

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

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

To operate the zoom from the remote control device.

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

How to cancel the remote control mode.

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

5

More useful functions

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 device, press and hold the shutter button on the remote control device. If the camera does not receive the remote control signal properly, sequential shooting may stop.
- To view pictures using the remote control device, refer to the instruction manual for the remote control device.

Recording sound with still pictures

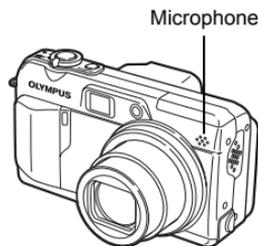
Sound can be recorded when taking still pictures. Recording starts about 0.5 seconds after the shutter is released and lasts about 4 seconds. When this function is enabled, sound is recorded automatically every time you take a picture.

Mode dial P A S M SCENE

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

"Menus" (P.17)

- 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.108)
- Sound can be added later to still pictures. Recorded sound can also be re-recorded. "Recording sound" (P.92)

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] or [DRIVE] is set to sequential shooting ([▶], [HI▶], [BKT]), or during panorama shooting or time lapse 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.

Recording sound with movies

Sound can be recorded while shooting a movie.

Mode dial



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

"Menu" (P.17)

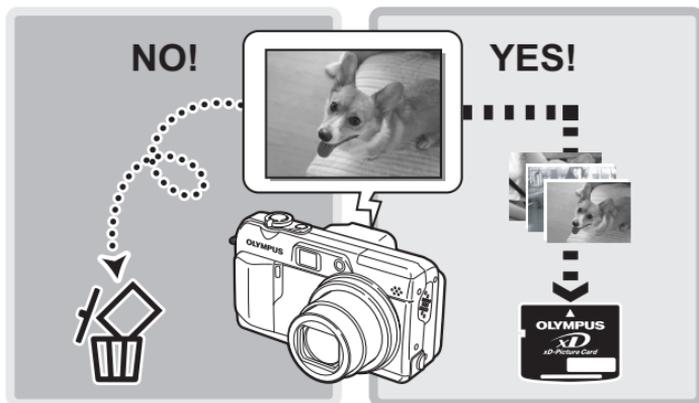
Note

- 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.

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 to play back other pictures.

- : Displays the next picture.
- : Displays the previous picture.
- : Jumps to the picture 10 frames back.
- : Jumps to the picture 10 frames ahead.

? 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 or 5 times.

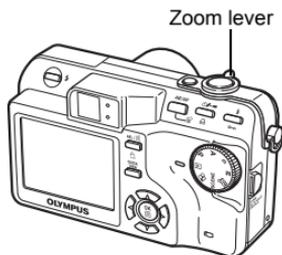
Mode dial



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 gradually.
- 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.
- To return the picture to the original size (1×), push the zoom lever toward W.





! Note

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

Index display

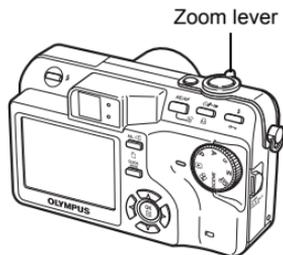
This function lets you show several pictures at the same time on the monitor. The number of pictures shown can be 4, 9 or 16.  "Selecting the number of pictures" (P.83)

Mode dial 



1 Push the zoom lever toward W .

- The index display screen is displayed.
- The image that was displayed in single-frame playback is selected.
- Pushing the zoom lever once toward T during index display switches to single-frame playback.  "Single-frame playback" (P.81)



- Use the arrow pad to select a picture.

 : Moves to the previous frame.

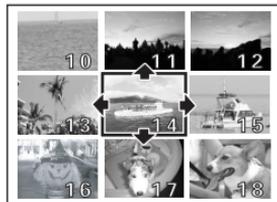
 : Moves to the next frame.

 : Moves to the frame above/
previous index.

- If a frame on the top row of the index was selected, displays the previous index.

 : Moves to frame below/next index.

- If a frame on the bottom row of the index was selected, displays the next index.



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 



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

 "Menus" (P.17)

Calendar display



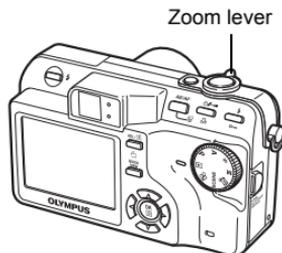
This function lets you display images stored on the card by specifying the date on a calendar format. If several pictures were taken on the same date, the first picture taken on that date is displayed.

Mode dial 



1 Push the zoom lever toward W twice.

- The calendar display screen is displayed.



2 Use the arrow pad to select a date.

-  : Moves to the previous date when a picture was taken.
-  : Moves to the next date when a picture was taken.
-  : Moves to the same day of a previous week when a picture was taken.
-  : Moves to the same day of a following week when a picture was taken.

2004	Sun	Mon	Tue	Wed	Thu	Fri	Sat
12	28	29	30	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	1
	2	3	4	5	6	7	8

Ex.: When December 27 is selected

2004	Sun	Mon	Tue	Wed	Thu	Fri	Sat
12	28	29	30	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	1
	2	3	4	5	6	7	8

2005	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	26	27	28	29	30	31	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	1	2	3	4	5

- Press . Moves to December 25.
- Press . Moves to January 12.
- Press . Moves to December 20.
- Press . Moves to January 10.

- Pushing the zoom lever once toward W during single-frame playback selects index display and pushing it again toward W selects calendar display.
- Pushing the zoom lever once toward T during calendar display switches to single-frame playback. However, if no picture was selected in calendar display, you cannot switch from calendar display to single-frame playback.
- Pressing  during calendar display switches to single-frame playback.
-  "Single-frame playback" (P.81), "Index display" (P.82)

Note

- Months in which no pictures were taken are not displayed.
- If the date and time are not set on the camera, the pictures may not be displayed on the correct date.  "Setting the date and time" (P.115)
- The following operations cannot be performed during calendar display:
Protect, picture rotation, and print reservation.



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

Mode dial



Top menu ▶

"Menus" (P.17)

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

Note

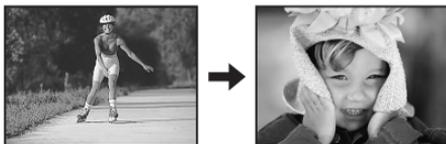
- You are recommended to use the optional AC adapter when running a slideshow for a long period of time. If the battery is used, the camera will enter sleep mode after about 30 minutes and stop the slideshow automatically.

Slideshow setup



You can choose how the pictures go from one to the next during the slideshow.

NORMAL Displays the pictures stored on the card one at a time.



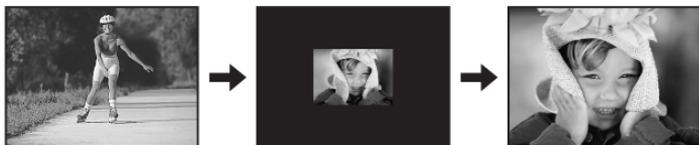
SLIDE Displays the pictures by sliding the next picture over the previous picture from right to left.



FADER Displays the pictures by gradually fading out the previous picture and fading in the next picture.



WINDOW Displays the pictures by gradually enlarging the next picture from the center of the screen.



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SETUP] ▶ [NORMAL] / [SLIDE] / [FADER] / [WINDOW] "Menus" (P.17)

Picture rotation



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



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

"Direct buttons" (P.13)

- Each pressing rotates the image in the following sequence: 90° clockwise, 90° counterclockwise, 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.17)

- 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

appears 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.

● Frame by frame playback

: Jumps to the frame 10 frames back. If the movie is less than 10 frames long, displays the first frame.

: Jumps to the frame 10 frames ahead. If the movie is less than 10 frames long, displays the last frame.

: 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 battery compartment/card cover while the card access lamp is blinking. Doing so may damage the data on the card and render the card unusable.



Playing time/
total recording time



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 taken in raw data format and saves them as new JPEG files. You can check the result on the monitor and make sure the desired effect has been achieved. P.88



Changes the image size to 640 × 480 or 320 × 240 and saves the picture as a new file. P.89



RED EYE FIX

Crops part of a picture and saves it as a new file. P.90

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.91

Select the still picture that you want to edit and display the top menu. To use the [RAW DATA EDIT] function, select a picture taken in raw data record mode.

Editing raw data

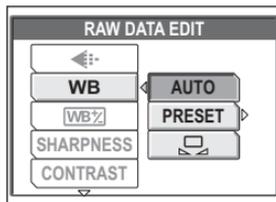
Mode dial



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

"Menus" (P.17)

1 Select an editing option and press .



2 When you have finished editing the data, press .

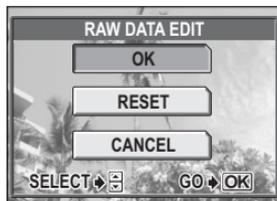
- Raw data can be edited using the following functions.

Function	Settings	Ref. page
	SHQ, HQ, SQ1, SQ2	P.26
WB	AUTO, PRESET,	P.58
	RED7 – BLUE7	P.61
SHARPNESS	±5	P.62
CONTRAST	±5	P.63
SATURATION	±5	P.63

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

3 Select [OK] and press .

- The [BUSY] bar appears and after the image is saved, the camera returns to the playback mode.
- 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.17)

1 Select an image size and press



- The [BUSY] bar appears and after the image is saved, the camera returns to the playback mode.
- The resized picture is stored as a separate picture from the original.
- To cancel resizing, select [CANCEL] and press .
- 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

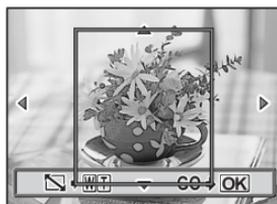


Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [Trimming]

"Menus" (P.17)

1 Select [Trimming] and press **2** Use the arrow pad and zoom lever to decide 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.

**3** Press .**4** Select [OK] and press .

- The [BUSY] bar appears and after the image is saved, the camera returns to the playback mode.
- 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 out, it may appear grainy.

Red-eye correction

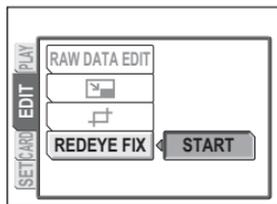
Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [REDEYE FIX] "Menus" (P.17)

1 When [START] appears, press

- After the [BUSY] bar, a screen asking whether or not you want to save the corrected image is displayed. The camera returns to the playback mode.
- The corrected picture is stored as a separate picture from the original.

**Note**

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

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.

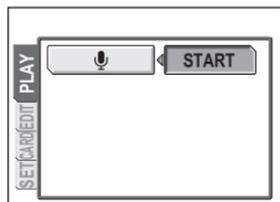
Mode dial



Top menu ▶ [MODE MENU] ▶ [PLAY] ▶ [🎤]

👉 “Menus” (P.17)

1 Press to display [START].



2 Aim the camera microphone toward the sound you want to record and press to start recording.

- The [BUSY] bar is displayed during recording.

Microphone



Note

- If the microphone is farther 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).
- Sound recording may pick up camera noises, such as button operation or shutter movement.
- Once sound is added to a picture, it is not possible to erase only 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.
👉 “Creating an index” (P.93)
- EDIT** This function lets you erase parts of the movie that you do not want.
👉 “Editing a movie” (P.94)

Select a picture with 📷 and display the top menu.

Creating an index

Mode dial



Top menu ▶ [MODE MENU] ▶ [EDIT] ▶ [INDEX] 👉 “Menus” (P.17)

- When there is insufficient card memory, a warning screen appears and the display returns to the [EDIT] screen.

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 .

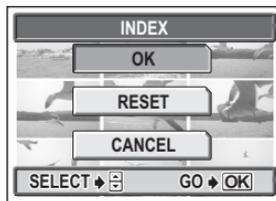


6

Playback

3 Select [OK] and press .

- The [BUSY] bar appears and 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.17)

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 [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 .



4 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 appears and 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.

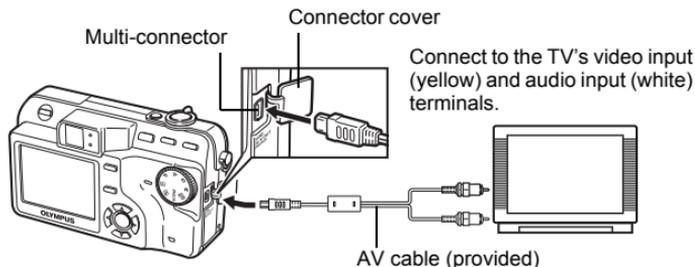
Playback on a TV

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 multi-connector on the camera to the video input terminal on the TV using the AV cable provided with the camera.



- 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** Press the **POWER** switch to 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 type is the same as the TV's video signal type. "Video output selection" (P.97)
- 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. When playing back pictures while connected to a TV in a foreign country, be sure to set the [VIDEO OUT] setting accordingly. Select the video signal type 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]
 ⓘ “Menus” (P.17)

? TIPS

TV video signal types & main regions

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

NTSC North America, Korea

PAL European countries, China, other Asian countries

Information display

INFO

6

Playback

This function lets you display detailed shooting information on the monitor for approx. 3 seconds in the playback mode. For details of the information displayed, see “Monitor indications” (P.188).

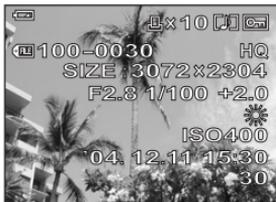
The information display can be set separately for shooting mode and playback mode. ⓘ “Displaying shooting information” (P.66)

Mode dial



Top menu ▶ [INFO] ⓘ “Menus” (P.17)

- Each time you select [INFO] from the top menu, the information display is alternately turned on and off.



When [INFO] is on



When [INFO] is off

Note

- If the picture has been taken with a different camera, setting [INFO] to on in  mode only displays the date and time, frame number and battery check indication.
- If  is set, the histogram is displayed regardless of whether [INFO] is set to on or off.
- The file numbers for specifying the files to be printed when printing pictures without using the DPOF print reservation function are displayed when [INFO] is set to on in  mode.  “Print settings (DPOF)” (P.132)

Histogram



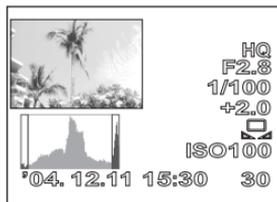
When viewing still pictures, you can display a histogram showing the luminance components.

The histogram display can be set separately for shooting mode and playback mode.  “Histogram” (P.65)

Mode dial

Top menu  “Menus” (P.17)

- Each time you select , the histogram display is alternately turned on and off.



Histogram display

Note

- The histogram displayed during shooting may differ from the histogram displayed during playback.
- The histogram may not appear when you play back pictures shot on another camera.

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.13),
“Single-frame playback” (P.81)
- 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.98)

Single-frame erase



Mode dial



1

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

-  “Direct buttons” (P.13),
“Single-frame playback” (P.81)
- 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.

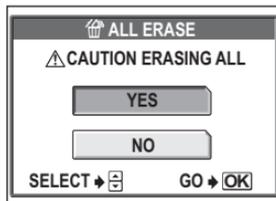
Mode dial 



Top menu ▶ [MODE MENU] ▶ [CARD] ▶ [ALL ERASE]  “Menus” (P.17)

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.

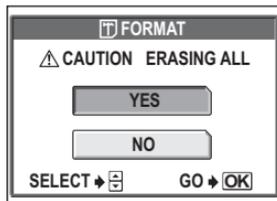
Mode dial 



Top menu ▶ [MODE MENU] ▶ [CARD] ▶ [FORMAT]  “Menus” (P.17)

1 Select [YES] and press .

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



Note

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

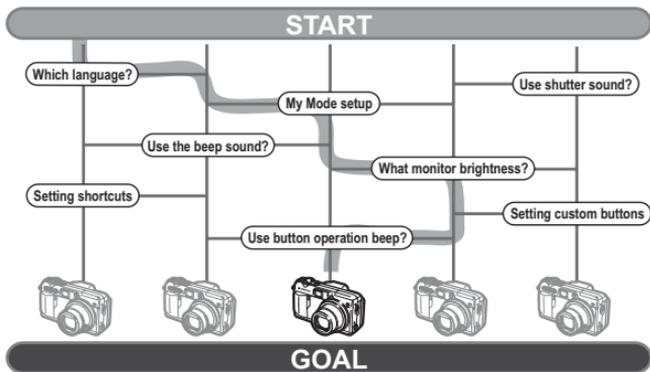
For example, you can set the startup screen so that one of the pictures you have taken is displayed when you turn the camera on.

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!

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)

Example: 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



Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [ALL RESET] ▶ [OFF] / [ON]
I [Hand icon] "Menu" (P.17)

! 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.43	(still pictures)	OFF	P.78
SHUTTER	1/1000	P.44	(movies)	ON	P.79
	0.0	P.57	FUNCTION	OFF	P.74
FLASH MODE	AUTO	P.37	INFO	OFF	P.66
	0.0	P.41		OFF	P.65
AF/MF	AF	P.50	FRAME ASSIST	OFF	P.67
LCD*	ON (Lights)	-	TIMELAPSE	2 pictures 1 min. interval	P.72
AE	ESP	P.52		HQ	P.26
	OFF	P.36	WB	AUTO	P.58
DRIVE		P.70	PRESET WB		P.59
BKT	±1.0, 3 shots	P.71		none	P.61
ISO	AUTO/80	P.56	SHARPNESS	±0	P.62
SCENE		P.32	CONTRAST	±0	P.63
SLOW	SLOW1	P.41	SATURATION	±0	P.63
NOISE REDUCTION	OFF	P.64	SHQ, HQ	3072 × 2304	P.28
DIGITAL ZOOM	OFF	P.35	SQ1	1600 × 1200 NORMAL	P.28
FULLTIME AF	OFF	P.47	SQ2	640 × 480 NORMAL	P.28
AF	iESP	P.46	INFO	OFF	P.97

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

Selecting a language



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

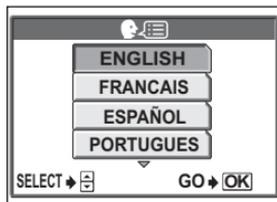
Mode dial □

P A S M SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶

“Menus” (P.17)

1 Select a language and press .



? TIPS

To increase the number of languages

→ Additional language firmware is available from the Olympus website. For details, refer to the Olympus website.

Power on/Power 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.107)

Mode dial □

P A S M SCENE

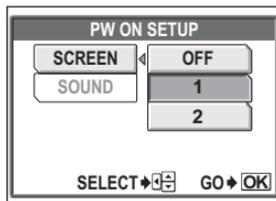
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PW ON SETUP] /
[PW OFF SETUP]

“Menus” (P.17)

1 Select [OFF], [1] or [2] for [SCREEN], then 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.

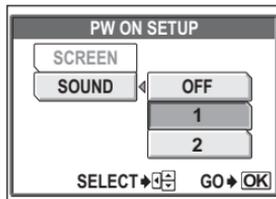


[PW ON SETUP] screen

2 Select [OFF], [1] or [2] for [SOUND], then 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.108)



[PW ON SETUP] screen

3 Press .

Rec view

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

- ON** 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.
- 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.

Mode dial  P A S M  SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [REC VIEW] ▶ [OFF] / [ON]
 "Menu" (P.17)

Screen setup

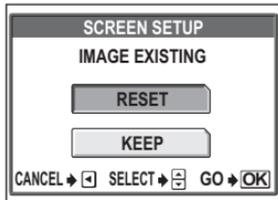
You can register your favorite picture for display when the power is turned on and off. Register a picture from the pictures saved on the card and use [PW ON SETUP] and [PW OFF SETUP] to display it on the startup/shutdown screen.  “Power on/Power off setup” (P.105)

Mode dial 



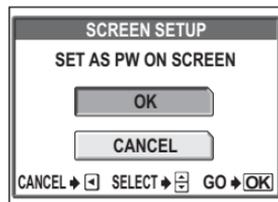
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SCREEN SETUP] ▶ [PW ON] / [PW OFF]  “Menus” (P.17)

- 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 or movie frame that cannot be played back on this camera.

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.

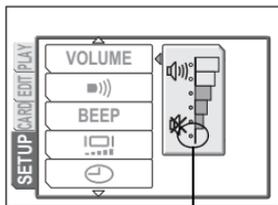
Mode dial



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

☞ “Menus” (P.17)

- 1 Press to set the volume, then press .



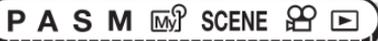
Selecting this level will mute the sound completely.

Beep



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

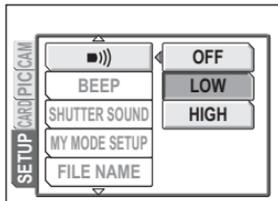
Mode dial



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

☞ “Menus” (P.17)

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



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].

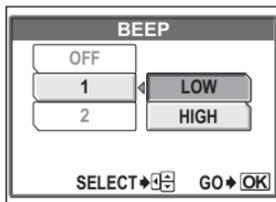
Mode dial

P A S M  SCENE 

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

 “Menus” (P.17)

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



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].

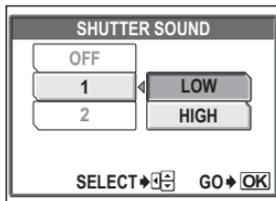
Mode dial

P A S M  SCENE

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

 “Menus” (P.17)

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



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.46)

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.12	DIGITAL ZOOM	OFF	P.35
FNo.	F2.8	P.43	FULLTIME AF	OFF	P.47
SHUTTER	1/1000	P.44	AF	iESP	P.46
	0.0	P.57	PANORAMA	OFF	P.75
LCD*1	ON	–	FUNCTION	OFF	P.74
ZOOM*2	38mm	–	INFO	OFF	P.66
FLASH MODE	AUTO	P.37		OFF	P.65
	OFF	P.73, P.77	(still pictures)	OFF	P.78
AF/MF	AF	P.50	FRAME ASSIST	OFF	P.67
AE	ESP	P.52		HQ	P.26
	OFF	P.36	WB	AUTO	P.58
DRIVE		P.70		none	P.61
ISO	AUTO	P.56	SHARPNESS	±0	P.62
	0.0	P.41	CONTRAST	±0	P.63
	SLOW1	P.41	SATURATION	±0	P.63
NOISE REDUCTION	OFF	P.64			

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

*2 In mode, the available zoom positions are 38mm, 80mm, 120mm, 160mm and 190mm (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]

“Menus” (P.17)

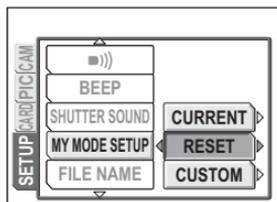
1 Select the type of [MY MODE SETUP] and press .

CURRENT Saves the current camera settings.

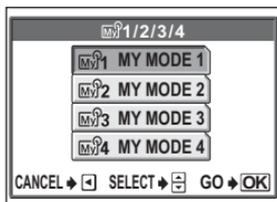
RESET Restores the factory default settings.

CUSTOM Saves settings one by one.

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



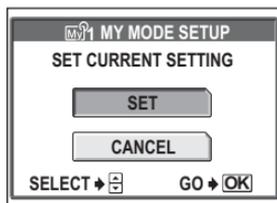
2 Select a My Mode number and press .



● If you selected [CURRENT] in Step 1

3 Select [SET] and press .

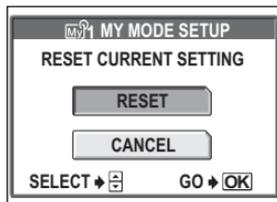
- The current camera settings are saved in the selected My Mode.



● If you selected [RESET] in Step 1

3 Select [RESET] and press .

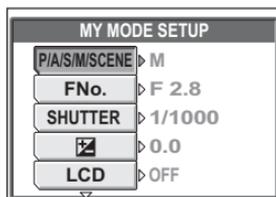
- The settings in the selected My Mode are reset.
If no settings are saved, My Mode settings cannot be selected.



● If you selected [CUSTOM] in Step 1

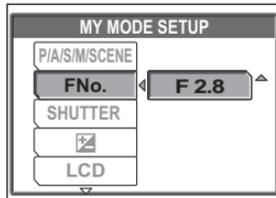
3 Select the function you want to save in My Mode and press .

- For the available functions, see "Functions that can be set in [MY MODE SETUP]" (P.110).



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 .

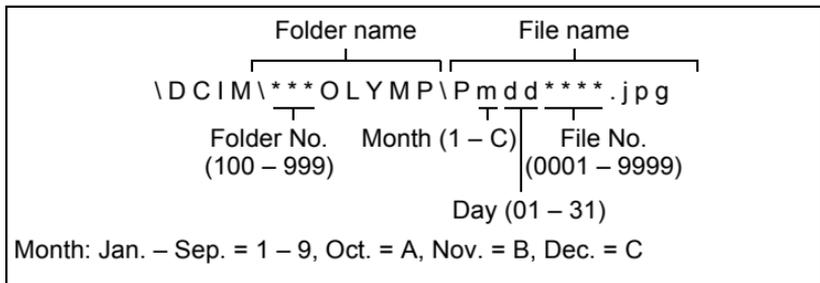
- The screen displayed in Step 2 appears.

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].

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.

File name settings

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]
 “Menus” (P.17)

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



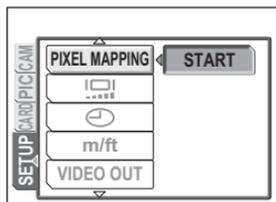
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [PIXEL MAPPING]

☞ “Menus” (P.17)

1 When [START] appears, 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.

Monitor brightness adjustment



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

Mode dial □

P A S M



SCENE



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

☞ “Menus” (P.17)

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.



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 

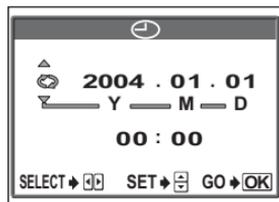
P A S M  SCENE  

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ 

 "Menus" (P.17)

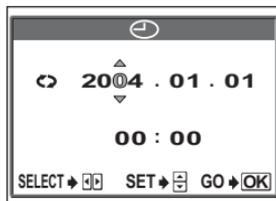
1 Select one of the following date formats: [Y-M-D] (Year/Month/Day), [M-D-Y] (Month/Day/Year), [D-M-Y] (Day/Month/Year), and press .

- 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, then 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.156)

Measurement units (m/ft)

m/ft

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

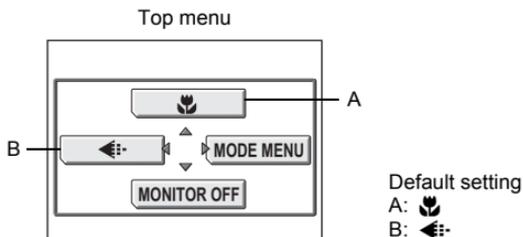
Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [m/ft] ▶ [m] / [ft]

 "Menus" (P.17)

Shortcut

You can set two shortcut menus (A, B) 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.



Functions that can be assigned to the shortcut menus	Ref. page	Functions that can be assigned to the shortcut menus	Ref. page
	P.36	INFO	P.66
DRIVE	P.70		P.65
ISO	P.56	 (still pictures)	P.78
SCENE	P.32	FRAME ASSIST	P.67
 1/2/3/4	P.46	TIMELAPSE	P.72
	P.41		P.26
 SLOW	P.41	WB	P.58
NOISE REDUCTION	P.64		P.61
DIGITAL ZOOM	P.35	SHARPNESS	P.62
FULLTIME AF	P.47	CONTRAST	P.63
PANORAMA	P.75	SATURATION	P.63
FUNCTION	P.74		

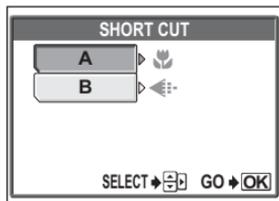
Setting the shortcut menus

You can set the two shortcut menus designated by A and B on the top menu.

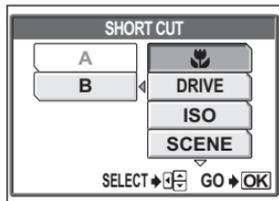
Mode dial  **P A S M**  SCENE

Top menu ▶ [MODE MENU] ▶ [SETUP] ▶ [SHORT CUT]  "Menus" (P.17)

- 1** Select [A] or [B] and press .



- 2** Select a function and press .



Note

- You cannot set different shortcut menus in each mode.

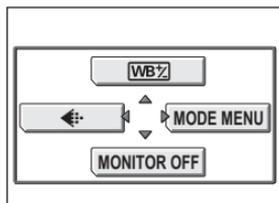
Using the shortcut menus

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 appear on the top menu.



When [WB] 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.

Functions that can be assigned to the custom button	Options	Ref. page
AE LOCK (factory default setting)	–	P.54
AF LOCK	–	P.49
	OFF, ,	P.36
DRIVE	, , HI , BKT	P.70
ISO	AUTO, 80, 100, 200, 400	P.56
SCENE	, , , ,	P.32
MY MODE	1, 2, 3, 4	P.46
SLOW	SLOW1, SLOW1, SLOW2	P.41
NOISE REDUCTION	OFF, ON	P.64
DIGITAL ZOOM	OFF, ON	P.35
FULLTIME AF	OFF, ON	P.47
FUNCTION	OFF, BLACK & WHITE, SEPIA	P.74
INFO	OFF, ON	P.66
	OFF, ON, DIRECT	P.65
(still pictures)	OFF, ON	P.78
FRAME ASSIST	OFF, ON	P.67
	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.26
WB	AUTO, PRESET,	P.58

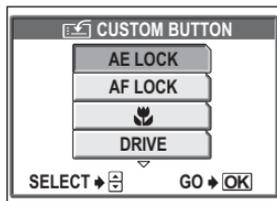
Setting the custom button

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

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

"Menus" (P.17)

1 Select a function and press .



Note

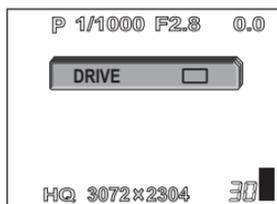
- You cannot assign different functions in each mode.

Using the custom button

Mode dial  P A S M  SCENE

1 Press the AEL/ button.

- The monitor turns on and the function currently set to the custom button appears.



When [DRIVE] is set on the custom button

TIPS

When [ISO] is set to the custom button but you want to use AE lock

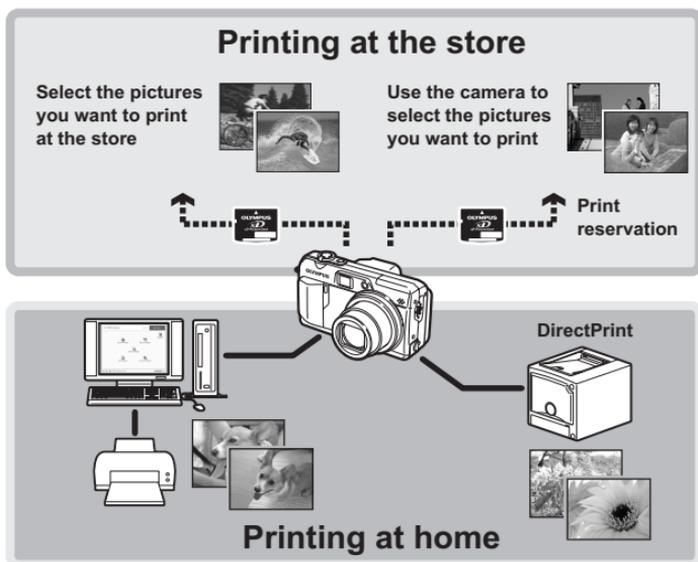
- The AE lock function cannot be used when a different function is set to the custom button. Reset AE lock to the custom button by following the procedure in "Setting the custom button" (P.119).

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.132)

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.126 to P.128), 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 printing paper types, ink cassettes, 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.

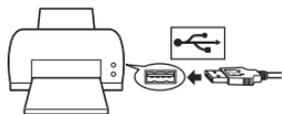
Connecting the camera to a printer

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

Mode dial 

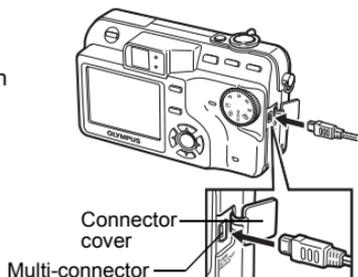
- 1 Turn the printer on and plug the printer end of the USB cable into the printer's USB port.

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



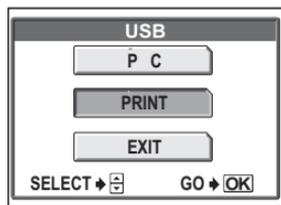
- 2 Plug the USB cable into the camera's multi-connector.

- The monitor turns on and the selection screen for the USB connection is displayed.



- 3 Select [PRINT] and press .

- "ONE MOMENT" is displayed and the camera and printer are connected. The [PRINT MODE SELECT] screen is displayed on the monitor. Select the print settings on the camera's monitor.
 Go to "Printing pictures" (P.124)

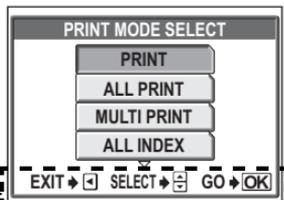


Note

- 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.132)

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

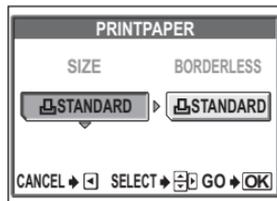
The method described below is the easiest way to print out pictures. The selected picture is printed using standard settings without the date, time or file name.

[PRINT MODE SELECT] screen ▶ [PRINT]

"Menus" (P.17)

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

- When the [PRINT PAPER] 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.125).



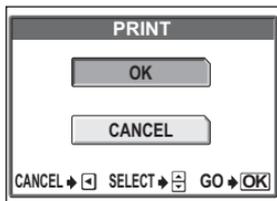
2 Select the picture you want to print and press .

- 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.

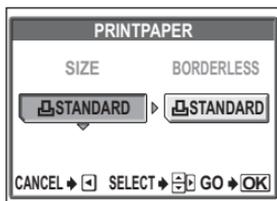
WITHOUT

The image is printed filling the entire page.

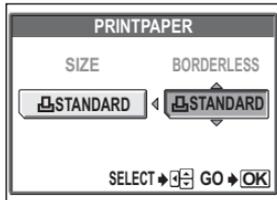
PICS/SHEET

In [MULTI PRINT] mode, select from the available settings on your printer.

1 Press on the [PRINTPAPER] screen to select the paper size, then press .



2 Press to select framed or unframed, then press . In [MULTI PRINT] mode, press to select the number of pictures per sheet, then 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]  "Menus" (P.17)

1 Select the item you want to set on the [PRINTPAPER] screen and press . "Setting the size and border" (P.125)

- 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 Select the picture you want to print.

- 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.

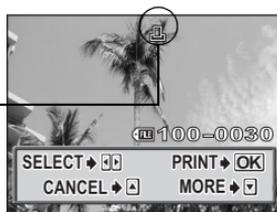
MORE Sets the number of prints of the selected picture in the print reservation data. You can also add the date or file name, and trim the picture.

● Set a [SINGLE PRINT] reservation

① Press .

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

Print reservation icon is displayed.



② Go to Step 5.

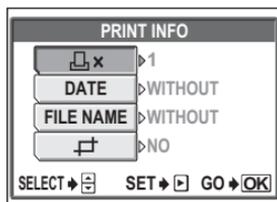
● Set [MORE] print reservations

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.



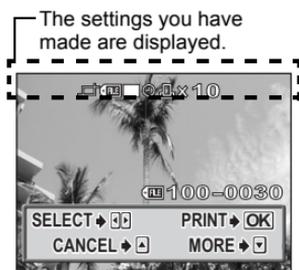
Crops part of a recorded picture so that only the enlarged section is printed.  "Trimming" (P.129)

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

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

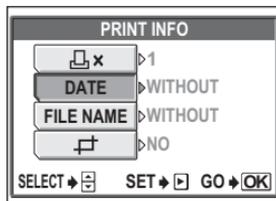
- The screen displayed in Step 2 appears.
- To print more than one picture in [PRINT] or [MULTI PRINT] mode, repeat Steps 2 and 3 and make single or multiple print reservations for all the pictures you want to print.
-  is displayed in [MULTI PRINT] mode.

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.



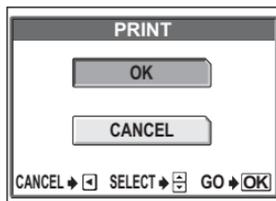
DATE () If you select [WITH], pictures are printed with the date and time.

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

5 Press .

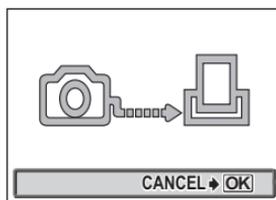
6 Select [OK] and press .

- Printing starts.
 - When printing is finished, the monitor returns to the [PRINT MODE SELECT] screen.
-  "Exiting direct printing" (P.130)

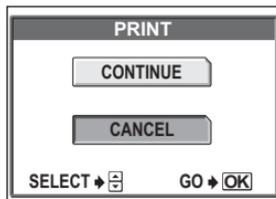


● To cancel printing

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.
- If trimming has already been performed, the screen appears. 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.

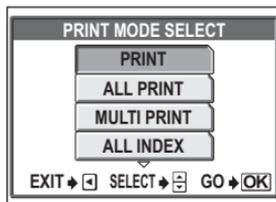
Note

- The size of the printed picture varies depending on the printer settings. If the trimmed picture is small, printing magnification increases 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.

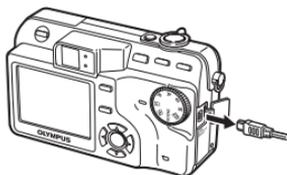
Exiting direct printing

When you have finished printing, disconnect the camera from the printer.

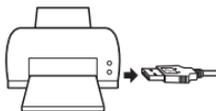
- 1** In the [PRINT MODE SELECT] screen, select .
 - "TURN OFF THE POWER" is displayed.



- 2** Press the POWER switch to turn the camera off.
- 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 appears 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 has been operated while making settings on the camera.	Do not operate the printer while making settings on the camera.
 PRINT ERROR	There is a problem with the printer and/or camera.	Turn off camera and printer. Check the printer and remedy any problems before turning the power on again.

? TIPS

- If an error code other than those shown above is displayed, see "Error codes" (P.156).



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 print shop 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 shop, 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 using a DPOF-compatible print shop.

You can print the pictures using 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 square inch. This is called dpi (dots per inch). 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.26)

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 appears with the message "PICTURE ERROR", it may be possible to make print reservations. In this case, the print reservation icon () does not appear when the image is displayed for full view.  appears when multiple images are displayed (index display), allowing you to confirm the print reservation.
- Not all functions may be available on all printers, at all print shops, or at all photo labs.
- Some TIFF images cannot be printed.
- You cannot make DPOF print reservations for images saved in raw data format.
- Print reservation may take a little time when saving printing data to a card.

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.13)

- You cannot make print reservations for pictures with .
- If data is already stored on the card, the [PRINT ORDER] screen appears, giving you the choice of resetting the data or keeping it.

2 Select [] or [ALL] and press .

- [] → Go to Step 3.
- [ALL] → Go to Step 5.

3 Select the picture(s) you want to print 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.

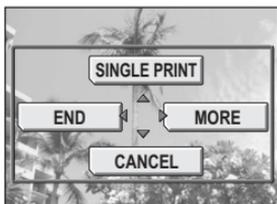
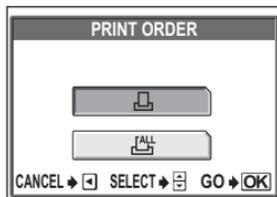
SINGLE PRINT Sets the number of prints to 1 and returns to Step 3. Date/time printing and trimming are not available.

CANCEL Cancels the print reservation for the displayed picture.
 "To exit single-frame reservation" (P.135)
 "Resetting print reservation data" (P.137)

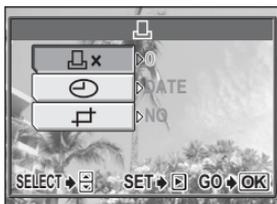
END Exits the print reservation function.
 "To exit single-frame reservation" (P.135)

5 Select []× (number of prints), [] (date/time) or [] (trimming), and press .

- [] 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.136)

7 After setting the number of prints and date/time printing data and trimming the picture, press to complete the print reservations.

- The  icon appears on the displayed 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.

● To exit single-frame reservation

Select [END] on the single-frame menu to return to the [PRINT ORDER] screen. Follow the operation guide and return to the playback screen.

Print reservation icon



Trimming



This function enables you to crop part of a recorded picture and print out the enlarged section only.

Mode dial



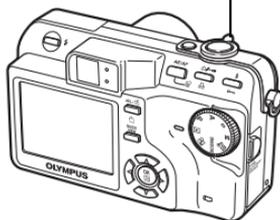
1 Select [Trim] on the single-frame reservation screen and press [OK].

☞ "All-frame reservation/Single-frame reservation" (P.133)

- If trimming has already been performed, the [Trim] screen appears. Select [RESET] and press [OK].



Zoom lever



2 Use the arrow pad and zoom lever to select 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.

3 Press [OK].



4 Select [OK] and press [OK].

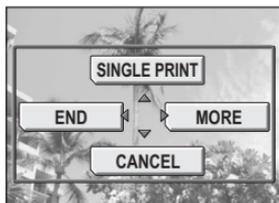
- OK** Saves the current trimming size. Returns to the single-frame reservation screen.
- RESET** Sets a new trimming size.
→ Repeat the procedure from Step 2.
- CANCEL** Cancels the current trimming setting. Returns to the single-frame reservation screen.



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 appears. 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 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.13)

2 Select [RESET] and press .

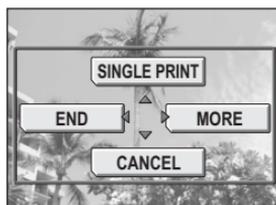
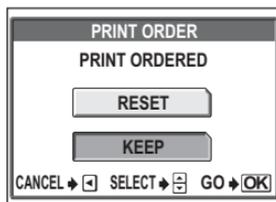
- If there is no print reservation data stored on the card, the [PRINT ORDER] screen does not appear.
- Press  to return to the playback screen.



● To reset the print reservation data for a selected picture

Mode dial

- 1 Press the button.
 ↳ “Direct buttons” (P.13)
- 2 Select [KEEP] and press .
 - If there is no print reservation data stored on the card, the [PRINT ORDER] screen does not appear.
- 3 Select [] and press .
- 4 Select the frame for which you want to reset the print reservation data using the arrow pad 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 appears. Follow the operation guide to return to the playback screen.

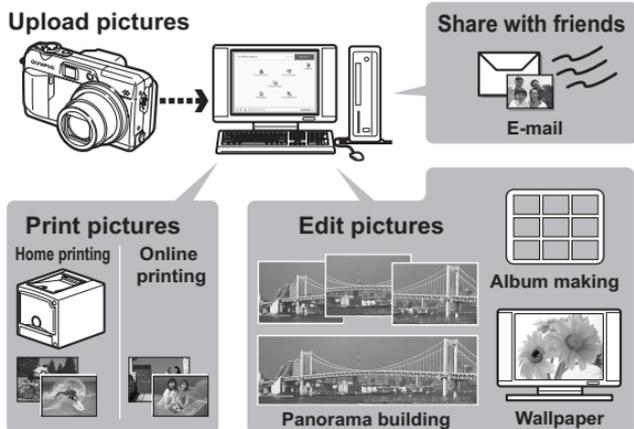


Connecting the camera to a computer

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.

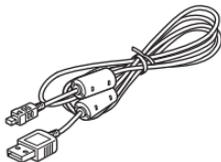
There are all kinds of ways you can use your pictures with a computer. You can run a slideshow, post your pictures on your home page, create an album, or set your favorite picture as your desktop wallpaper.



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

Install the OLYMPUS Master software

➤ P. 142



Connect the camera to the computer using the USB cable

➤ P. 145



Start up the OLYMPUS Master software

➤ P. 147



Download image files to the computer

➤ P. 149



Disconnect the camera from the computer

➤ P. 150

? 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.

If 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

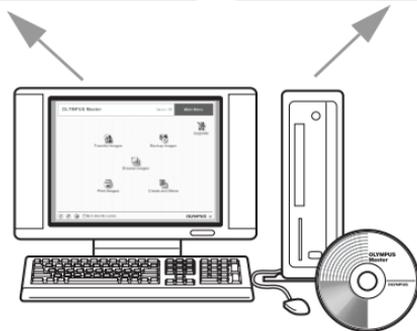
You can run a slideshow and play back sound.

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 500MHz 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 500MHz 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 when the camera is connected to a computer 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 battery compartment/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.



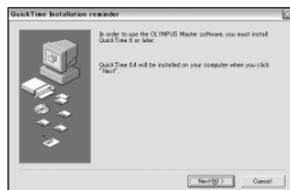
2 Click the "OLYMPUS Master".

- 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.



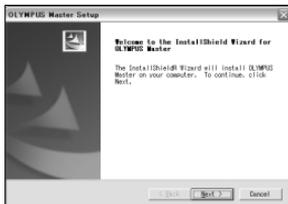
3 Click "Next" and follow the on-screen instructions.

- 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.



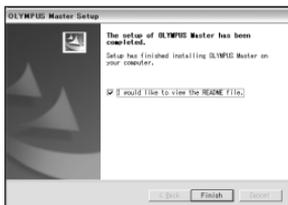
5 To install Adobe Reader, click “OK”.

- 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.

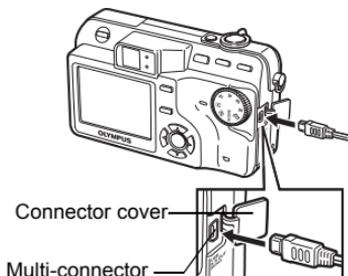
Mode dial

**1** 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.

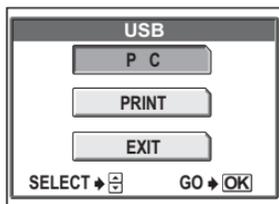
2 Plug the other end of the USB cable into the camera's multi-connector.

- The monitor turns on and the selection screen for the USB connection is displayed.



3 Select [PC] and press .

- If the selection screen disappears, press the **POWER** switch to turn the camera on again or disconnect the USB cable and repeat the procedure from Step 2.



4 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

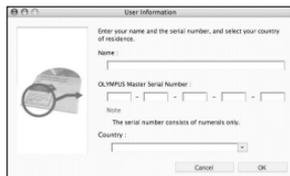
1 Double-click the “OLYMPUS Master” icon  on the desktop.

- 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.

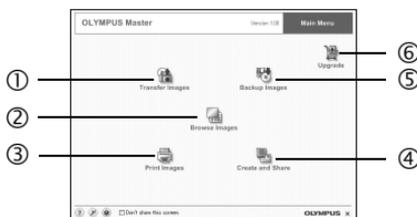
- The main menu is displayed.
- When OLYMPUS Master is started up for the first time, the “User Information” dialog box is displayed before the main menu. Enter your “Name” and “OLYMPUS Master Serial Number”, and select your country.
- After the “User Information” dialog box, the “Registration” dialog box is displayed. Follow the prompts and fill in the registration form.



The image shows a "User Information" dialog box from the OLYMPUS Master software. It contains the following fields and text:

- Title: User Information
- Instruction: Enter your name and the serial number, and select your country of residence.
- Field: Name (text input)
- Field: OLYMPUS Master Serial Number (text input with dashes for formatting)
- Field: Note (text area containing "The serial number consists of numerals only.")
- Field: Country (dropdown menu)
- Buttons: Cancel and OK

● 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”.

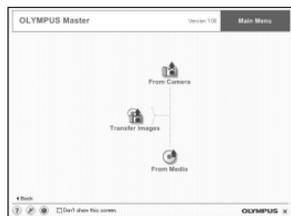
- A window indicating that the download is complete is displayed.

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

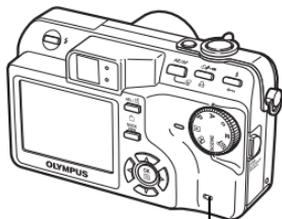
- The card access lamp blinks while downloading images. Do not do any of the following while the lamp is blinking.
 - Open the battery compartment/card cover.
 - Remove the battery.
 - Connect or disconnect the AC adapter.



● 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.

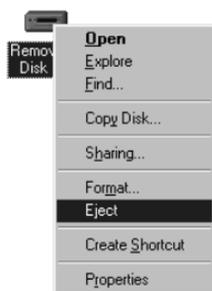


Card access lamp

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

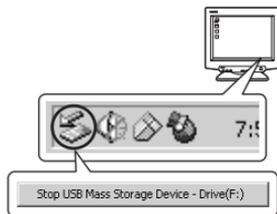
Windows 98SE

- 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".

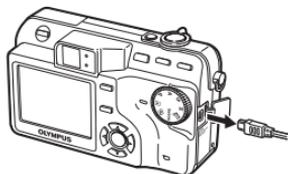


Macintosh

- 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

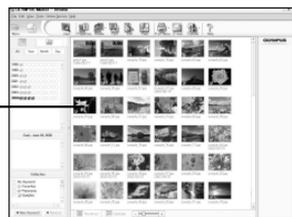
- Windows Me/2000/XP: When you click “Unplug or Eject Hardware”, a warning message may be displayed. Make sure that image data is not being downloaded from the camera and that all applications are closed. Click the “Unplug or Eject Hardware” icon again and disconnect the cable.

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.

- The “Browse Images” window is displayed.

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.



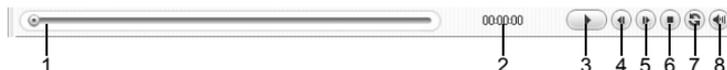
● To view a movie

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.

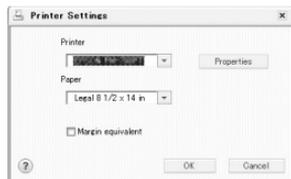
2 Click “Photo” .

- The “Photo Print” window is displayed.



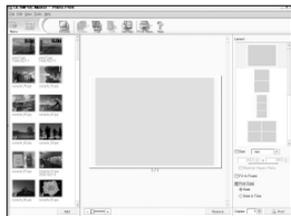
3 Click “Settings” in the “Photo Print” window.

- The printer settings screen is displayed. Make the necessary printer settings.



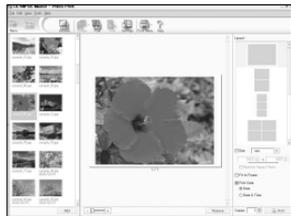
4 Select a layout and size.

- To print the date and time with your image, check the box next to “Print Date”, and select between “Date” and “Date & Time”.

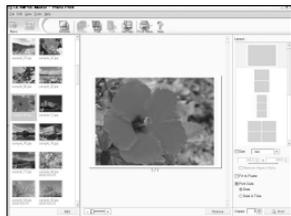


5 Select the thumbnail image that you want to print and click “Add”.

- 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 98/98SE/Me/2000 Professional/XP

Macintosh: Mac OS 9.0 to 9.2/X

Note

- If your computer is running Windows 98/98SE, 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/NT 4.0
 - Windows 98/98SE upgrades from Windows 95
 - 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.

Troubleshooting

Error codes

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.
 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 battery compartment/card cover is open.	Close the battery compartment/card cover.
 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.	Format the card. Select [POWER OFF] and press  . Insert a new card. Select [FORMAT] and press  . All data on the card is erased.

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.	Press the POWER switch to turn the camera on.	–
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.12
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.37
The card is full.	Erase unwanted pictures or insert a new card. Before erasing, download important images to a computer.	P.99
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.156

Possible cause	Corrective action	Ref. page
The monitor does not turn on.		
The camera is set to [MONITOR OFF].	Press  in the shooting mode to display the top menu, then press  to select [MONITOR ON].	P.23
The viewfinder or monitor is hard to see.		
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 the mode menu and adjust the brightness.	P.114
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.115
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.115
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 the mode menu.	P.103
The picture is out of focus.		
The subject was too close.	Move further away from the subject. To take pictures closer than 8 cm (3.2") with the zoom in the maximum WIDE position, use the super macro mode.	P.36
The subject is dark.	Set [AF ILLUMINATOR] to [ON] in the mode menu.	P.48
Auto focus is not possible.	Use manual focus or focus lock to focus on the subject and then shoot.	P.50, 24
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 the 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.23, 103
The flash does not fire.		
The flash was closed.	Press the flash button to make the flash pop up.	P.37
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to fill-in mode.	P.37
Sequential shooting, high speed sequential shooting or auto bracketing is set.	The flash does not fire in the sequential shooting, high speed sequential shooting or auto bracketing mode. Set [DRIVE] to [□] in the mode menu.	P.71
The camera records movies.	The flash does not fire in the movie mode. Select a shooting mode other than  .	P.69
Super macro mode is set.	The flash does not fire in the super macro mode. Set [] to [OFF] or [].	P.36
Panorama mode is set.	The flash does not fire in the panorama mode.	P.75
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 depleted.	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.50, 24
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently.	P.22
The flash was closed in a lighting condition requiring use of the flash.	Press the flash button to make the flash pop up. Camera movement occurs easily with slower shutter speeds. Use a tripod, or set the flash mode to [AUTO].	P.37
The subject is dark.	Set [AF ILLUMINATOR] to [ON] in the mode menu.	P.48
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.164
The picture is too bright.		
The flash was set to the fill-in flash mode.	Select a flash mode other than fill-in flash.	P.37
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.57
The [ISO] is at a high setting.	Set the [ISO] to [AUTO] or to a low sensitivity: [80]	P.56
The aperture value is small in A (M) mode.	Increase the aperture value or set the camera to P mode.	P.43
The shutter speed setting is too slow in S (M) mode.	Increase the shutter speed or set the camera to P mode.	P.44

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.22
The subject was out of the working range of the flash.	Shoot within the flash working range.	P.37
The flash was closed.	Press the flash button to make the flash pop up.	P.37
The subject was too small and was backlit.	Set the flash to fill-in mode, or use the spot metering mode.	P.37, 52
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 the mode menu.	P.70
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.57
The aperture value setting is too large in A (M) mode.	Decrease the aperture value or set the camera to P mode.	P.43
The shutter speed setting is too fast in S (M) mode.	Reduce the shutter speed or set the camera to P mode.	P.44
The colors of pictures look unnatural.		
Indoor lighting affected the picture's colors.	Set the white balance according to the lighting.	P.58
No white in the picture.	Include something white in the picture, or shoot using the fill-in flash mode.	P.37
The white balance setting is wrong.	Adjust the white balance according to the light source.	P.58
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.22

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 a 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 press the POWER switch to turn the camera on.	P.12
The camera is in the shooting mode.	Press the QUICK VIEW button or set the mode dial to  .	P.12, 13
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.156
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P.96
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.98
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.97
The TV video signal setting is incorrect.	Set the TV to the video input mode.	P.96
The monitor is hard to see.		
The brightness of the monitor is not adjusted properly.	Select  in the mode menu and adjust the brightness.	P.114
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.		
PC was selected on the monitor after connecting the camera to the printer with the USB cable.	Remove the USB cable, and start again from Step 1 of "Connecting the camera to a printer".	P.123
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.142
The camera has not been turned on.	Set the mode dial to  , then press the POWER switch to turn the camera on.	P.12

Camera care

● Cleaning the camera

Exterior:

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

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 replace the battery and test the camera functions.

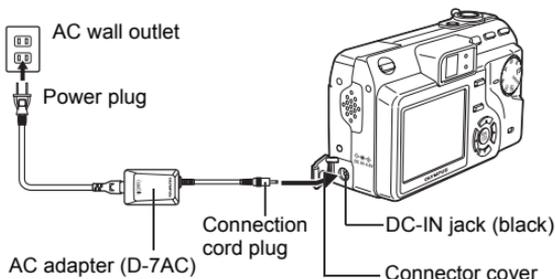
! Note

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

AC adapter (optional)

An AC adapter is useful for time-consuming tasks such as image downloads to a computer.

An optional Olympus AC adapter (D-7AC) allows you to power your digital camera from a common AC wall outlet.



? TIPS

- If you use the AC adapter when the camera is turned on, the battery in the camera will be charged.
- The battery charges in approximately 6 hours.
- The self-timer/remote control lamp blinks slowly while charging.

! 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.
- Be sure to read the instruction manual for the AC adapter.
- If an error occurs while the battery in the camera is charging, the self-timer/remote control lamp blinks quickly. Check that the battery and plug are inserted correctly.

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 cameras.
- Do not leave the camera pointed directly at the sun. This may cause lens or shutter curtain damage, color failure, ghosting on the CCD, or may possibly cause fires.
- Do not push or pull severely on the lens.
- Before storing the camera for a long period, remove the 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 release 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.

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.

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 settings.

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).

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 personal 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.

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.).

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.

Menu list

● Shooting mode menus (P, A, S, M, , SCENE)

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	CAMERA 		OFF,  , 	P.36
		DRIVE	 ,  , HI  , BKT	P.70
		ISO	AUTO, 80, 100, 200, 400	P.56
		SCENE* ¹	 ,  ,  ,  , 	P.32
		 1/2/3/4* ²		P.46
			-2.0 – +2.0	P.41
		 SLOW	 SLOW1,   SLOW1,  SLOW2	P.41
		NOISE REDUCTION* ³	OFF, ON	P.64
		DIGITAL ZOOM	OFF, ON	P.35
		FULLTIME AF	OFF, ON	P.47
		PANORAMA* ⁴		P.75
		FUNCTION	OFF, BLACK & WHITE, SEPIA	P.74
		INFO	OFF, ON	P.66
			OFF, ON, DIRECT	P.65
		 (still pictures)	OFF, ON	P.78
		FRAME ASSIST	OFF, ON	P.67
		TIMELAPSE	OFF, ON	P.72
	PICTURE 		RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.26
		WB	AUTO, PRESET, 	P.58
			RED7 – BLUE7	P.61
		SHARPNESS	-5 – +5	P.62
		CONTRAST	-5 – +5	P.63
		SATURATION	-5 – +5	P.63
	CARD	FORMAT	YES, NO	P.100

● Shooting mode menus (P, A, S, M, , SCENE)

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	SETUP	ALL RESET	OFF, ON	P.103
		 *5		P.105
		PW ON SETUP	SCREEN, SOUND	P.105
		PW OFF SETUP	SCREEN, SOUND	P.105
		REC VIEW	OFF, ON	P.106
			OFF, LOW, HIGH	P.108
		BEEP	OFF, 1, 2	P.109
		SHUTTER SOUND	OFF, 1, 2	P.109
		MY MODE SETUP	CURRENT, RESET, CUSTOM	P.110
		FILE NAME	RESET, AUTO	P.113
		PIXEL MAPPING		P.114
				P.114
				P.115
		m/ft	m, ft	P.116
		VIDEO OUT	NTSC, PAL	P.97
		AF ILLUMINATOR	OFF, ON	P.48
SHORT CUT	A, B	P.117		
CUSTOM BUTTON		P.119		
		Function set as shortcut		
		Function set as shortcut		
MONITOR ON/OFF		MONITOR OFF/ MONITOR ON	P.23	

*1 Only available in **SCENE** mode.

*2 Only available in  mode.

*3 Not available in **SCENE** mode.

*4 Not available in **A/S/M** mode.

*5 Available languages vary depending on the area where you purchased this camera.

● Shooting mode menus (📷)

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	CAMERA		OFF, ,	P.36
		ISO	AUTO, 80, 100, 200, 400	P.56
		DIGITAL ZOOM	OFF, ON	P.35
		FULLTIME AF	OFF, ON	P.47
		(movies)	OFF, ON	P.79
		FUNCTION	OFF, BLACK & WHITE, SEPIA	P.74
	PICTURE	WB	AUTO, PRESET,	P.58
			RED7 – BLUE7	P.61
		SHARPNESS	-5 – +5	P.62
		CONTRAST	-5 – +5	P.63
		SATURATION	-5 – +5	P.63
	CARD	FORMAT	YES, NO	P.100
	SETUP	ALL RESET	OFF, ON	P.103
		*1		P.105
		PW ON SETUP	SCREEN, SOUND	P.105
		PW OFF SETUP	SCREEN, SOUND	P.105
			OFF, LOW, HIGH	P.108
		BEEP	OFF, 1, 2	P.109
		FILE NAME	RESET, AUTO	P.113
		PIXEL MAPPING		P.114
				P.114
				P.115
	VIDEO OUT	NTSC, PAL	P.97	
	DIGITAL ZOOM		OFF, ON	P.35
			SHQ, HQ, SQ1, SQ2	P.26
	MONITOR ON/OFF		MONITOR OFF/ MONITOR ON	P.23

*1 Available languages vary depending on the area where you purchased this camera.

● Playback mode menus (▶) (still pictures)

Top menu	Tab	Function	Setting	Ref. page	
MODE MENU	PLAY			P.92	
	EDIT	RAW DATA EDIT		P.88	
			640 × 480, 320 × 240, CANCEL	P.89	
			, CANCEL	P.90	
		REDEYE FIX		P.91	
	CARD	ALL ERASE		YES, NO	P.100
		FORMAT		YES, NO	P.100
	SETUP	ALL RESET		OFF, ON	P.103
			*1		P.105
		PW ON SETUP		SCREEN, SOUND	P.105
		PW OFF SETUP		SCREEN, SOUND	P.105
		SCREEN SETUP			P.107
		VOLUME			P.108
				OFF, LOW, HIGH	P.108
		BEEP		OFF, 1, 2	P.109
					P.114
					P.115
		VIDEO OUT		NTSC, PAL	P.97
				4, 9, 16	P.83
			SETUP	NORMAL, SLIDE, FADER, WINDOW	P.85
				P.85	
INFO			P.97		
			P.98		

*1 Available languages vary depending on the area where you purchased this camera.

● Playback mode menus (▶) (movies)

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	EDIT	INDEX	OK, RESET, CANCEL	P.93
		EDIT	OK, RESET, CANCEL	P.94
	CARD	ALL ERASE	YES, NO	P.100
		FORMAT	YES, NO	P.100
	SETUP	ALL RESET	OFF, ON	P.103
		 *1		P.105
		PW ON SETUP	SCREEN, SOUND	P.105
		PW OFF SETUP	SCREEN, SOUND	P.105
		VOLUME		P.108
			OFF, LOW, HIGH	P.108
		BEEP	OFF, 1, 2	P.109
				P.114
				P.115
		VIDEO OUT	NTSC, PAL	P.97
			4, 9, 16	P.83
 SETUP		NORMAL, SLIDE, FADER, WINDOW	P.85	
MOVIE PLAYBACK			P.87	
INFO			P.97	

*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
SHUTTER	1/1000
ZOOM	38 mm
LCD	ON
	0.0
FLASH MODE	A, S, M, P, SCENE : AUTO  : 
AF/MF	AF
	OFF
METERING	ESP
	OFF
DRIVE	
BKT	±1.0 EV, 3
ISO	AUTO (A, S, M : 80)
 1/2/3/4	MY MODE 1
SCENE	
	0.0
 SLOW	 SLOW1
NOISE REDUCTION	OFF ( : fixed on ON)
DIGITAL ZOOM	OFF
FULLTIME AF	OFF
AF MODE	A, S, M, P, SCENE : iESP  : fixed on iESP
PANORAMA	OFF
FUNCTION	OFF
INFO	OFF
AF area	center
	OFF
 (still pictures)	OFF
FRAME ASSIST	OFF
TIMELAPSE	OFF

TIMELAPSE	2 pictures, 1 min. interval
 (movies)	ON
	A, S, M, P, SCENE : HQ (3072 × 2304)  : HQ (640 × 480)
SHQ	3072 × 2304
HQ	3072 × 2304
SQ1	1600 × 1200 NORMAL
SQ2	640 × 480 NORMAL
WB	AUTO
	none
SHARPNESS	±0
CONTRAST	±0
SATURATION	±0
REC VIEW	ON
FILE NAME	RESET
m/ft	m
SHORT CUT	A:  , B: 
CUSTOM BUTTON	AE LOCK
SHUTTER SOUND	1 - HIGH
AF ILLUMINATOR	ON

● Playback mode

INFO	OFF
	OFF
	OFF
	0°
	OFF
	9
 SETUP	SLIDE
	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*
	HIGH
BEEP	HIGH

* Settings differ according to the region where the camera is sold.

Modes and shooting functions

In **My** mode, available functions vary depending on the modes set in the MY MODE SETUP menu.

Function		Mode	SCENE	A	S	M	P	
Zoom					✓			
DIGITAL ZOOM					✓			
AF mode					✓			—
FULLTIME AF					✓			
AF area					✓			—
MF					✓			—
FLASH MODE	AUTO		✓		—		✓	—
			✓		—		✓	—
			✓		—		✓	—
	 SLOW1				✓			—
	  SLOW1		✓		—		✓	—
	 SLOW2				✓			—
	 				✓			—
				✓			—	
 SLOW				✓			—	
				✓			—	
MULTI METERING				✓		—	✓	—
AE LOCK					✓			—
AF LOCK					✓			—
					✓			—
 s					✓			—
					✓			—
 , HI 					✓ ^{*1}			—
BKT				✓ ^{*1}		—	✓	—
TIMELAPSE					✓			—
FUNCTION					✓			—
 (still pictures)					✓			—
 (movies)					—			✓
PANORAMA			✓		—		✓	—
					✓			—

Function \ Mode	SCENE	A	S	M	P	
ISO			✓			
		✓		—		✓
WB			✓			
			✓			
SHARPNESS			✓			
CONTRAST			✓			
SATURATION			✓			
NOISE REDUCTION	—*1			✓		—
INFO			✓			—
		✓		—	✓	—
ALL RESET			✓*2			
			✓			
PW ON SETUP			✓			
PW OFF SETUP			✓			
REC VIEW			✓			—
FRAME ASSIST			✓			—
MY MODE SETUP			✓			—
FILE NAME			✓			
PIXEL MAPPING			✓			
			✓			
			✓			
m/ft			✓			—
VIDEO OUT			✓			
SHORT CUT			✓			—
CUSTOM BUTTON			✓			—
			✓			
SHUTTER SOUND			✓			—

✓: Available —: Not available

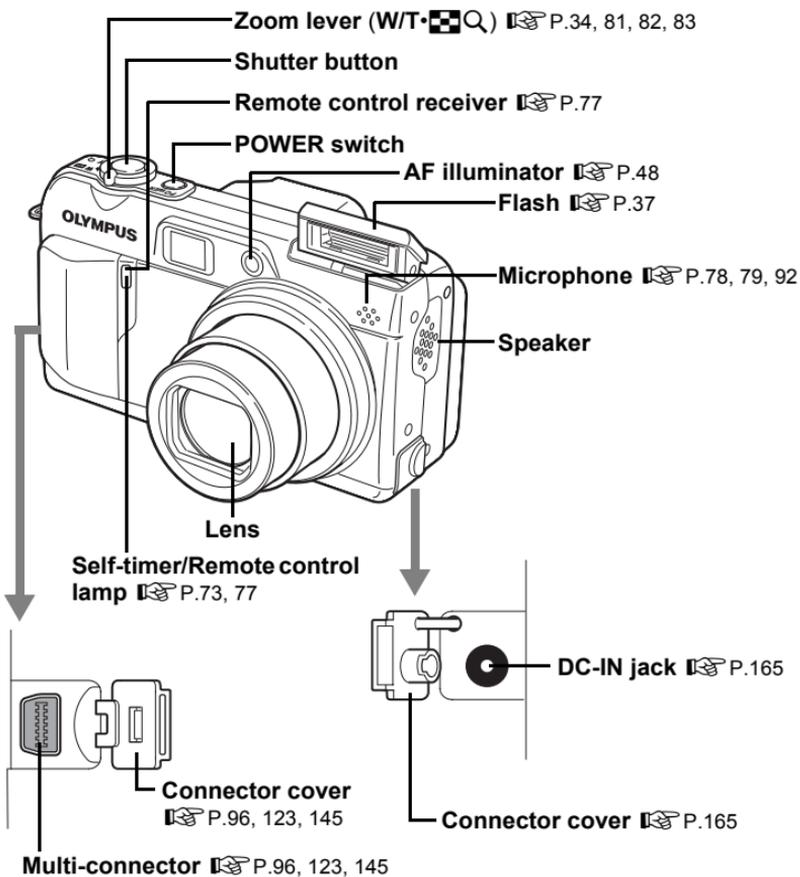
*1 Cannot be selected in mode.

*2 Cannot be selected in mode.

Names of parts

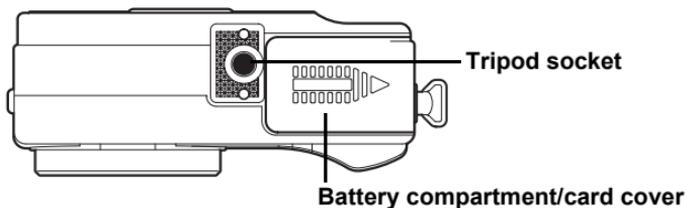
Camera

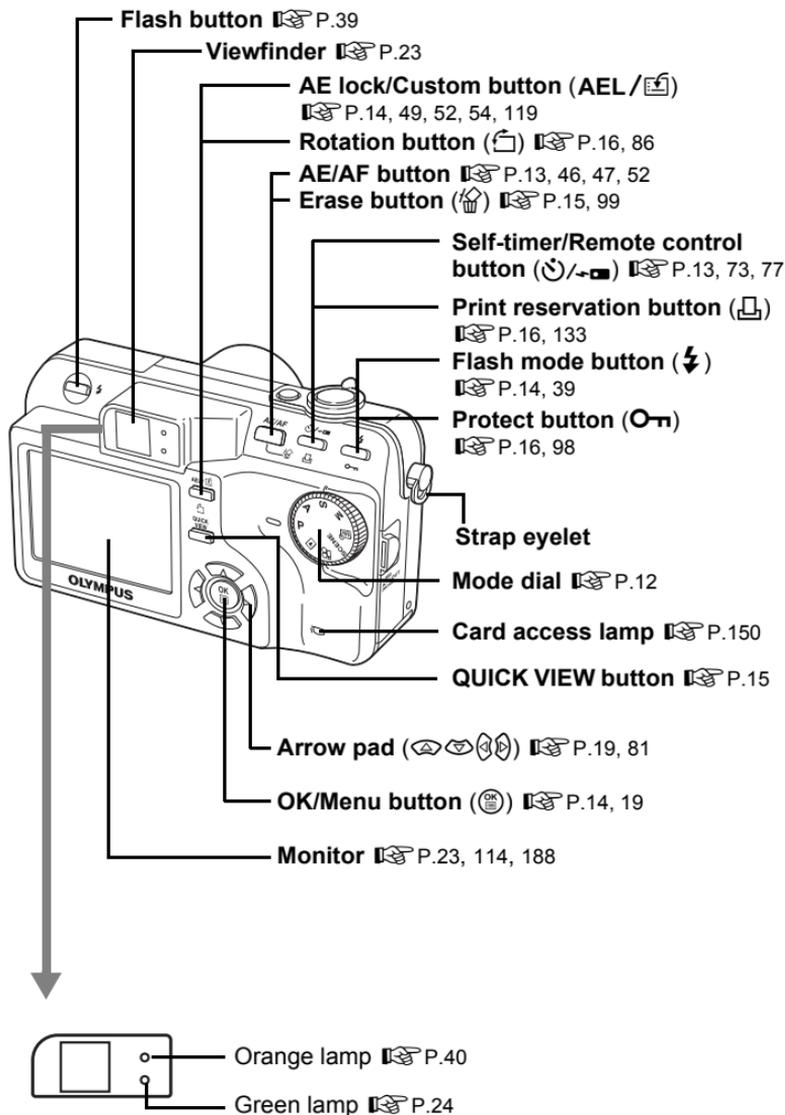
VISUAL INDEX



Miscellaneous

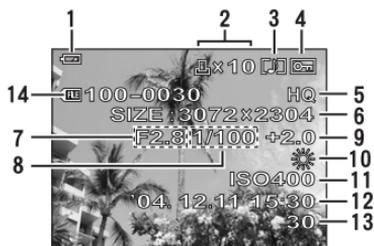
11





	Item	Indications	Ref. page
11	Flash intensity control	 -2.0 – +2.0	P.41
12	Drive Timelapse	 ,  , HI  , BKT 	P.70 P.72
13	Self-timer Remote control	 	P.73 P.77
14	Sound record		P.78, 79, 92
15	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.26
16	Image size	3072 × 2304, 2592 × 1944, 1280 × 960, etc.	P.28
17	AF target mark	[]	P.24
18	Number of storable still pictures Remaining recording time	30 00:36	P.28 P.69
19	AE lock AE memory	 	P.54
20	Spot metering		P.52
21	ISO	ISO80, ISO100, ISO200, ISO400	P.56
22	White balance		P.58
23	White balance compensation	B1 – B7, R1 – R7	P.61
24	Saturation	 -5 – +5	P.63
25	Sharpness	 -5 – +5	P.62
26	Contrast	 -5 – +5	P.63
27	Memory gauge		–

● Playback mode



Still picture



Movie

	Item	Indications	Ref. page
1	Battery check		—
2	Print reservation/ number of prints Movie	 	P.133 P.87
3	Sound record		P.78
4	Protect		P.98
5	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.26
6	Image size	3072 × 2304, 2592 × 1944, 1280 × 960, etc.	P.28
7	Aperture value	F2.8 – F8.0	P.43
8	Shutter speed	15" – 1/2000	P.44
9	Exposure compensation	-2.0 – +2.0	P.57
10	White balance	WB AUTO, , , , , , ,	P.58
11	ISO	ISO80, ISO100, ISO200, ISO400	P.56
12	Date and time	'04.12.11 15:30	P.115
13	Frame number Playing time/Total recording time	30 00:00/00:36	P.132 P.87
14	File number	100 – 0030	P.113 P.132

! 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.

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