

**OLYMPUS**

**CAMEDIA**

**DIGITAL CAMERA**

**C-5060 Wide Zoom**

**REFERENCE MANUAL**

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**CAMERA OPERATION MANUAL**

Explanation of digital camera functions and operating instructions.

**DIGITAL CAMERA - PC CONNECTION  
OPERATION MANUAL**

Explanation of how to download images between your digital camera and PC.

# **OLYMPUS**

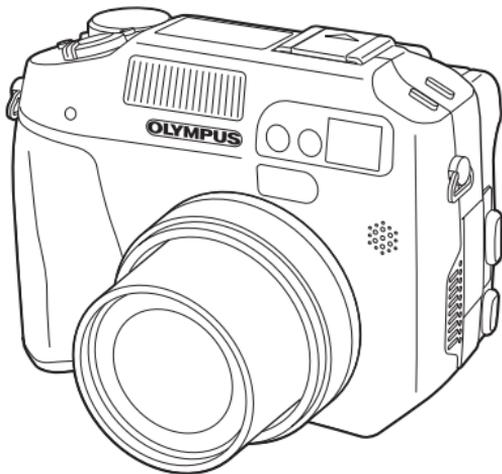
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**CAMEDIA**  
DIGITAL CAMERA

## **C-5060 Wide Zoom**

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### **REFERENCE MANUAL**



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

## For customers in North and South America

### For customers in USA

Declaration of Conformity

Model Number : C-5060 Wide Zoom  
RM-2 (Remote control)  
Trade Name : OLYMPUS  
Responsible Party : Olympus America Inc.  
Address : 2 Corporate Center Drive, Melville, New York  
11747-3157 U.S.A.  
Telephone Number : 631-844-5000

Tested To Comply With FCC Standards  
FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### For customers in Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

## For customers in Europe



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

## Trademarks

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

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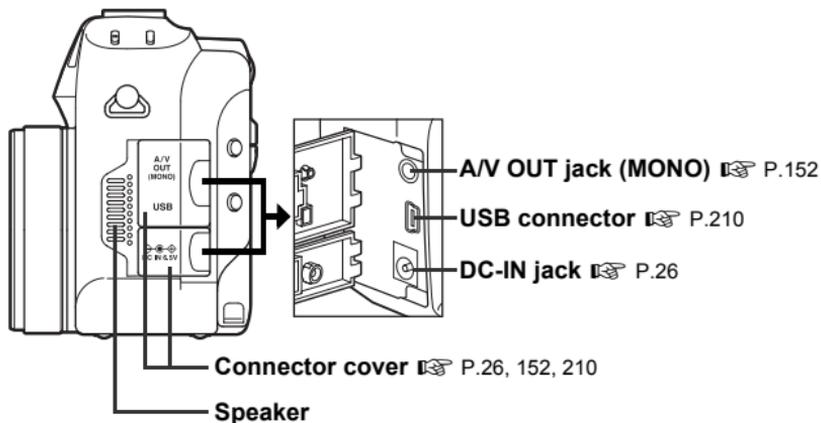
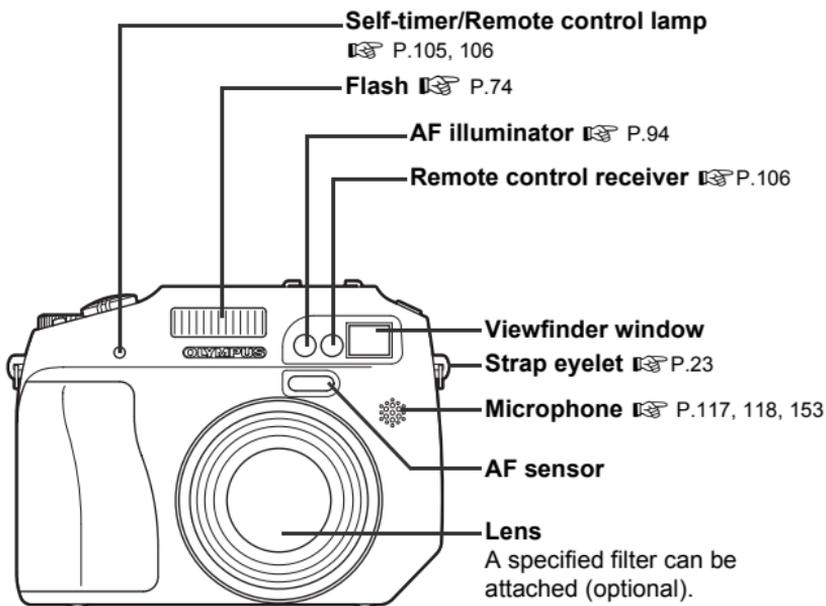
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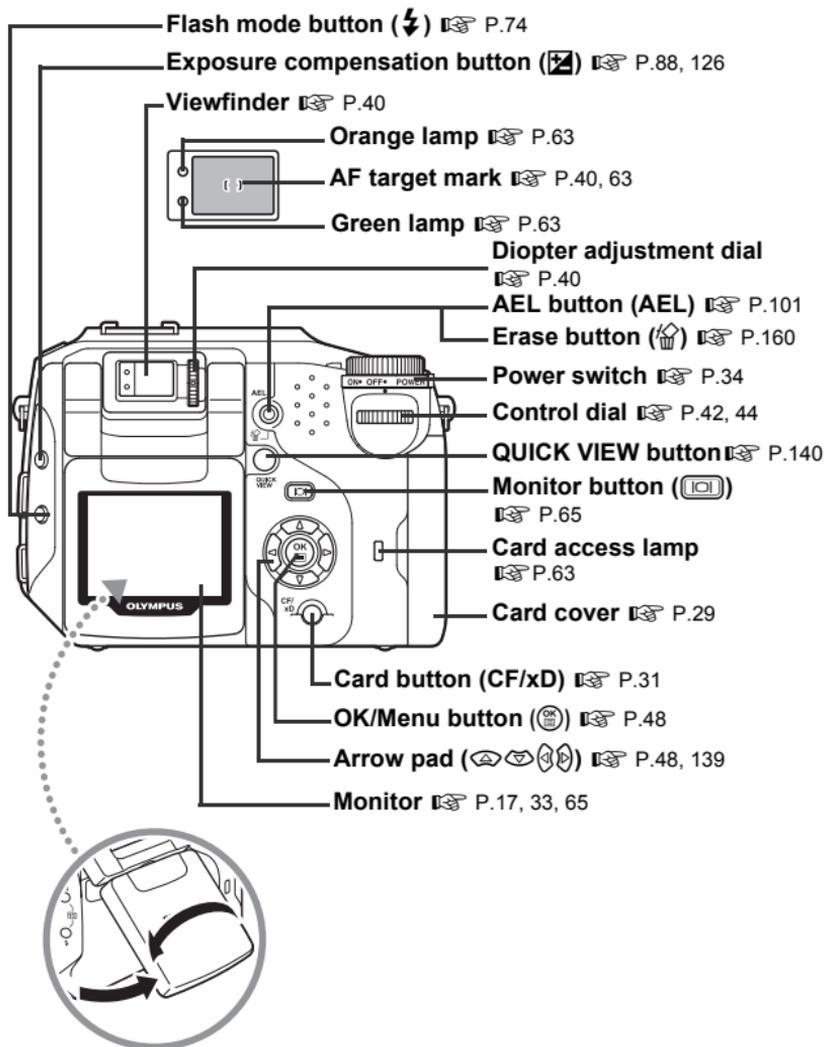
#### Indications used in this manual

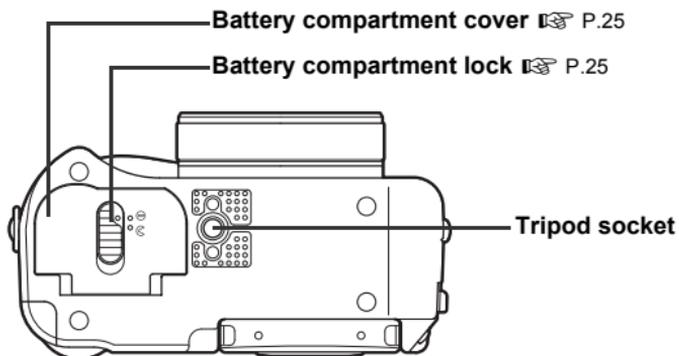
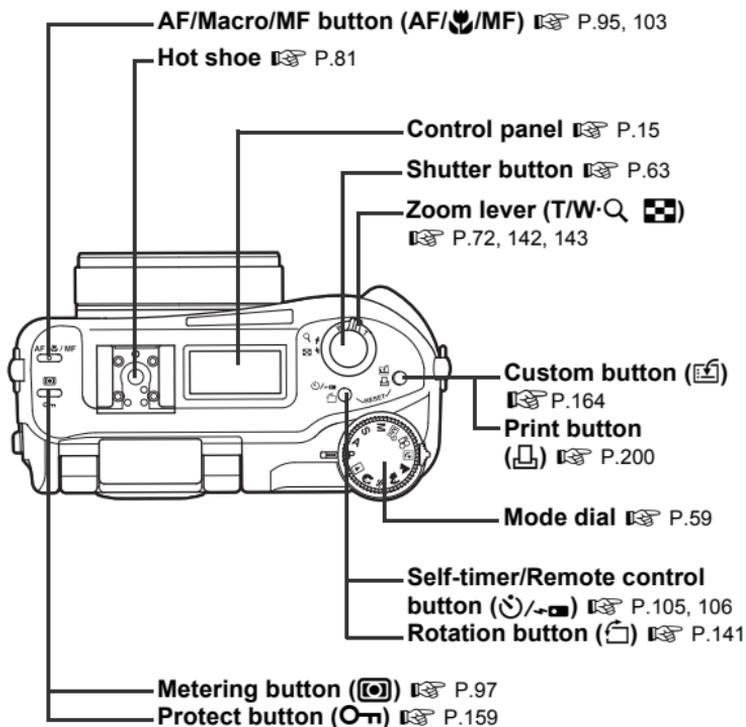
 Note	Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.
	Useful information and hints that will help you get the most out of your camera.
	Reference pages describing details or associated information.

# Names of parts

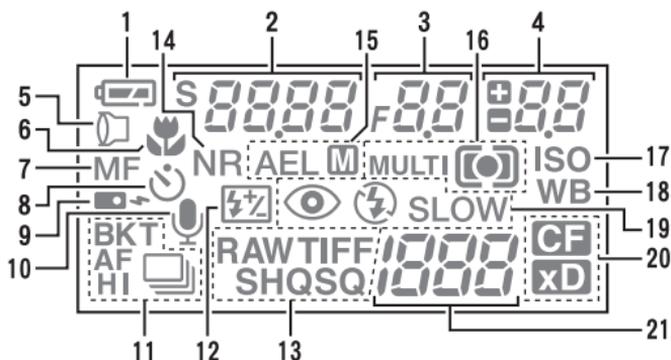
## Camera



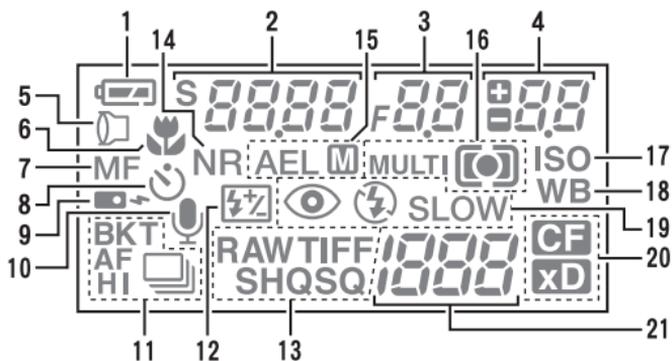




## Control panel indications



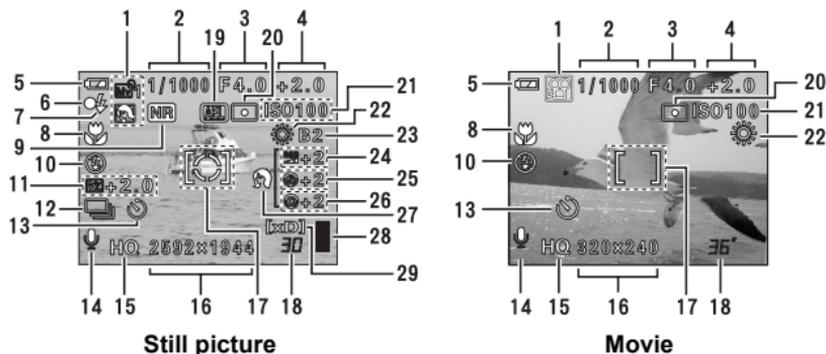
	Item	Indications	Ref. Page
1	Battery check		P.21
2	Shutter speed Program shift	2000 (1/2000 sec.), 2.5" S is displayed in the program shift mode.	P.87 P.59
3	Aperture value	F2.8 to F8.0	P.86
4	Exposure compensation Flash intensity control	+2.0, +1.0, 0.0, -1.0, -2.0	P.126 P.80
5	Accessory		P.119
6	Macro mode Super macro mode	(Lights) (Blinks)	P.103 P.104
7	Manual focus Super macro MF mode	MF (Lights) MF (Blinks)	P.95 P.104
8	Self-timer		P.105
9	Remote control		P.106
10	Sound record		P.117, 118, 153
11	Sequential shooting mode	HI , , AF , BKT	P.108
12	Flash intensity control		P.80



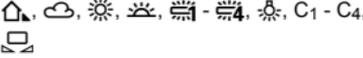
	Item	Indications	Ref. Page
13	Record mode	RAW, TIFF, SHQ, HQ, SQ	P.120
14	Noise reduction	NR	P.137
15	AE lock AE memory	AEL AEL M	P.101 P.102
16	Metering mode	[☐], [●], MULTI [☐]	P.97
17	ISO	ISO	P.125
18	White balance	WB	P.128
19	Flash mode	👁️, ⚡, 🔋, ⚡ SLOW, 👁️ ⚡ SLOW	P.74
20	Card	XD, CF	P.31
21	Number of storable still pictures/Seconds remaining	30	P.122, 123
	Error code	-E-	P.223

## Monitor indications

### ● Shooting mode



	Item	Indications	Ref. Page
1	Shooting mode	<b>P, A, S, M,</b> 1, , , , ,	P.59
2	Shutter speed	15" to 1/4000	P.87
3	Aperture value	F2.8 to F8.0	P.86
4	Exposure compensation	-2.0 to +2.0	P.126
	Exposure differential	-3.0 to +3.0	P.88
5	Battery check		P.21
6	Green lamp	○	P.63, P.66
7	Flash stand-by	Lights	P.75
	Camera movement warning/	Blinks	
	Flash charge		
8	Macro mode		P.103
	Super macro mode		P.104
	Manual focus	MF	P.95
9	Noise reduction	<b>NR</b>	P.137

	Item	Indications	Ref. Page
10	Flash mode		P.74
11	Flash intensity control	 -2.0 to +2.0	P.80
12	Drive		P.108
13	Self-timer Remote control	 	P.105 P.106
14	Sound record		P.117, 118, 153
15	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.120
16	Resolution	2592×1944, 1600×1200, 640×480, 320×240 etc.	P.122
17	AF target mark Metering target mark	[ ] 	P.63 P.97, 98
18	Number of storable still pictures Seconds remaining	30 36"	P.122 P.123
19	AE lock AE memory	 	P.101
20	Metering mode		P.97
21	ISO	ISO 80, ISO 100, ISO 200, ISO 400	P.125
22	White balance		P.128, 131
23	White balance adjustment	B1 to B7, R1 to R7	P.133
24	Saturation	 -5 to +5	P.136
25	Sharpness	 -5 to +5	P.134
26	Contrast	 -5 to +5	P.135
27	Scene modes		P.137
28	Memory gauge		P.21
29	Card	[xD], [CF]	P.31

## ● Monitor indications in shooting mode

Turn the power on and the monitor turns on displaying the shooting information. Each time you press , the information display changes in the following sequence.

Display 1



The shooting information details are displayed.

Display 2

After 3 sec.



Display 3

Press 



Only the AF target mark is displayed.

Press 

OFF



### TIPS

**To display only the AF target mark (Display 3) when the power is turned on.**

The AF target mark can be displayed without pressing  by following one of the methods below.

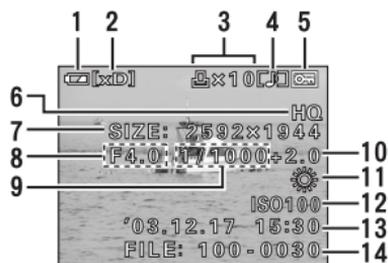
→ Turn the power off with the ALL RESET off, and the AF target mark displayed (Display 3).  "ALL RESET – Saving the camera's settings" (P.162)

→ Set ON  for LCD in MY MODE setup. Turn the power on after setting the dial to .  "MY MODE SETUP – Setting a function in My Mode" (P.170)

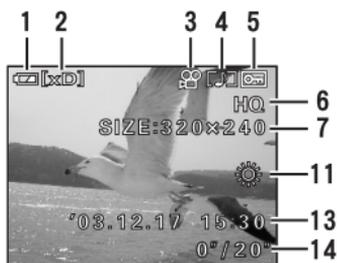
## ● Playback mode

INFO setting allows you to select how much information to display on the screen. Screens with the Information display set to ON are shown below.

☞ "INFO – Displaying shooting information on the monitor" (P.175)



Still picture



Movie

	Item	Indications	Ref. Page
1	Battery check		P.21
2	Card	[xD], [CF]	P.31
3	Print reservation, Number of prints Movie	 	P.200 P.146
4	Sound record		P.117, 118
5	Protect		P.159
6	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.120
7	Resolution	2592x1944, 1600x1200, 640x480, 320x240 etc.	P.122
8	Aperture value	F2.8 to F8.0	P.86
9	Shutter speed	15" to 1/4000	P.87
10	Exposure compensation	-2.0 to +2.0	P.126
11	White balance	WB AUTO,	P.128, 131
12	ISO	ISO 80, ISO 100, ISO 200, ISO 400	P.125
13	Date and time	'03.12.17 15:30	P.38
14	File number Playing time/Total recording time	FILE : 100 - 0030 0"/20"	P.198

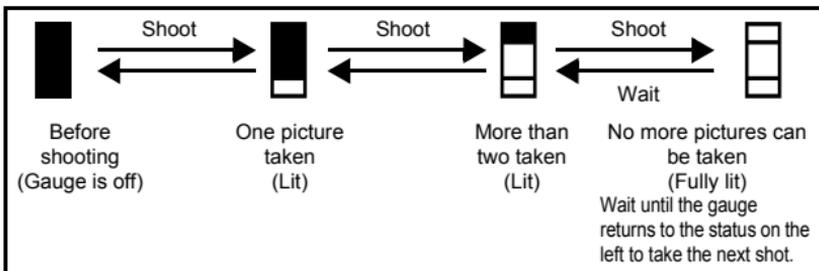
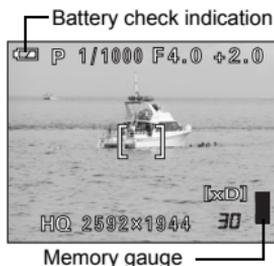


Note

- 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.

## ● Memory gauge

The memory gauge lights up when you take a still picture. While the gauge is lit, the camera is storing the picture on the card. The memory gauge indication changes as shown below depending on the shooting status. The indication is not displayed during movie recording.



## ● Battery check

If the remaining battery power is low, the battery check indication on the control panel and monitor changes as follows when the camera is turned on or while the camera is in use.

Battery check	Control panel	Monitor	Status
	Lights	Lights (green) (Goes off after a while)	Remaining power level: high
	Blinks	Blinks (red)	Remaining power level: low If you intend to use the camera for a long period of time, charge the battery as soon as possible.
No indication	The green lamp and orange lamp at the side of the viewfinder blink. (The control panel turns off automatically.)		Remaining power level: exhausted Charge the battery.

# How to use this manual

Set the mode dial to any of the marks shown here.

## Flash intensity control

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

**Mode dial** → P A S M

**1 Adjust the brightness by turning the control dial while holding down  $\downarrow$  and  $\text{Fn}$  at the same time.**

- The exposure value is displayed on the control panel while the flash intensity control function is set.

**4 Flash**



Control dial  
Exposure compensation button  
Flash mode button

Turning to the left decreases the light emission. Min. setting is -2.0.

Turning to the right increases the light emission. Max. setting is +2.0.



The buttons for the function and their location are clearly illustrated.

This shows control dial operations.

Follow the arrows to perform menu operations. For details on operating procedures, see "How to use the menus" (P.49).

## SHARPNESS

This function adjusts the sharpness of the image.

**Mode dial** → P A S M

**1 In the top menu, select MODE MENU → PICTURE → SHARPNESS, and press  $\text{OK}$ .**

☰ "How to use the menus" (P.49)



Arrow pad  
OK button

**2 Press  $\leftarrow$  or  $\rightarrow$  to adjust the sharpness between +5 and -5.**

- To increase the sharpness ( $\rightarrow$ ): Press  $\rightarrow$ . The image contours are emphasized, making the image sharper.

**6**



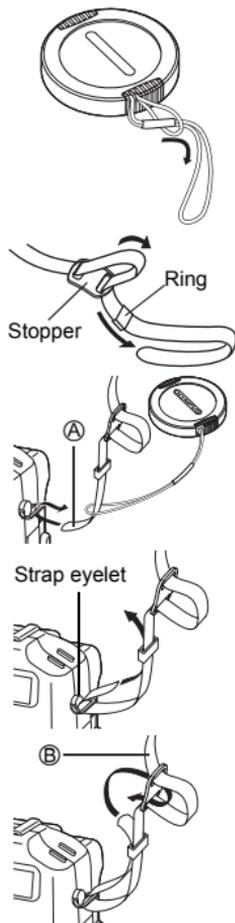
This represents the arrow pad. Only arrows applicable to the operation are shown.

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

# 1 Getting started

## Attaching the strap

- 1 Pass the lens cap string through the hole in the lens cap, then pass the other end through the loop and pull tight.
- 2 Pull the ends of the strap out of the stopper and ring.
- 3 Thread the strap (A) through the string loop (attached to the lens cap in Step 1). Then thread it through the strap eyelet on the camera.
- 4 Thread the end of the strap back through the ring as indicated by the arrow. Adjust the strap to the desired length.
- 5 Thread the end of the strap back through the stopper as indicated by the arrow. Pull the strap (B) tight and make sure it is fastened securely.
- 6 Attach the strap to the other eyelet following Steps 3 to 5.



1

Getting started



Note

- Be careful with the strap when you carry the camera, as it can easily catch on stray objects, causing injury or damage.
- Attach the strap correctly as described in the above steps so that the camera does not fall off. If the strap is attached incorrectly and the camera falls off, Olympus is not responsible for any damages.

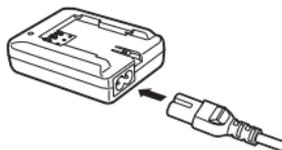
# Charging the battery

This camera uses one BLM-1 lithium ion battery. Other batteries cannot be used. The battery is not fully charged at the time of purchase. Before using the camera, charge the battery using the BCM-2 charger. For more details, read the instructions provided with the charger.

1

Getting started

## 1 Plug the power cord into the charger.

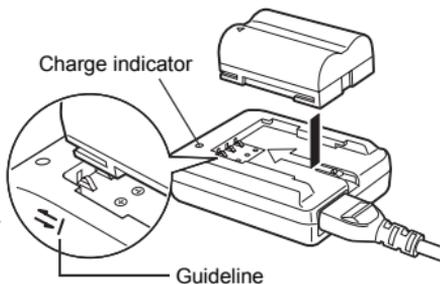
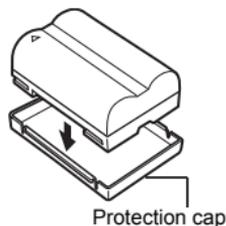


## 2 Plug the other end of the power cord into a household electrical outlet.



## 3 Remove the protection cap from the battery. Place the battery on the charger, making sure that it is correctly oriented as shown in the illustration.

- Align the battery with the guideline on the charger (⇄), and insert the battery into the charger as far as it will go.
- Meaning of the charge lamp indications:
  - Lights red : Charging
  - Lights green: Charging is completed.
  - Blinks red : Charging failure
- The battery charges in approximately 6 hours. The charging time may differ according to the amount of power left in the battery.



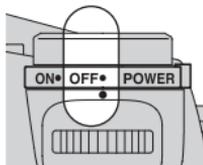
Note

- Use only the specified charger.
- The battery becomes warm during charging, but this is not a malfunction.
- If you intend to use the camera for a long period of time, you are recommended to carry a spare battery (sold separately) with you.
- Always secure the protection cap to the battery when handling or carrying to prevent the short-circuiting of the battery terminals.

# Loading the battery

This camera uses one BLM-1 lithium ion battery.

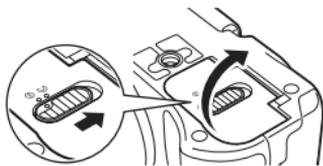
- 1 Make sure the power switch is set to OFF.



1

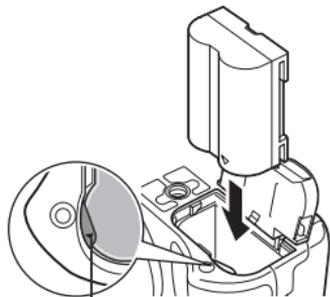
Getting started

- 2 Slide the battery compartment lock from  $\ominus$  to  $\odot$  and open the battery compartment cover.



- 3 Insert the battery, making sure that it is correctly oriented as shown in the illustration.

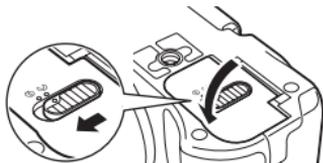
- The battery lock secures the battery when correctly loaded.



Battery lock

- 4 Close the battery compartment cover.

- 5 Slide the battery compartment lock from  $\odot$  to  $\ominus$ .



## Removing the battery

### 1 Press the battery lock in the direction of the arrow (A).

- The battery is ejected.
- Keeping your hand over the battery to stop it falling out, turn the camera right way up and remove the battery.



### Battery level warning

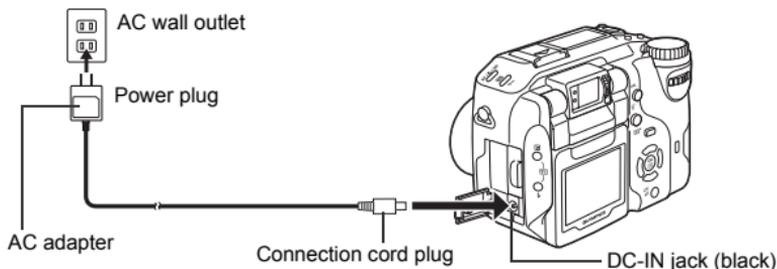
The amount of power consumed varies considerably depending on the operations performed on the digital camera. If you use an exhausted battery, the camera may turn off without displaying the battery level warning (P.21).

## Other ways to power the camera

### ● AC adapter

The optional Olympus CAMEDIA-brand AC adapter allows you to power your digital camera from a common AC wall outlet. Be sure to use the specified AC adapter. An AC adapter is useful for time-consuming tasks such as downloading images to a PC or outputting images on a printer. Use an AC adapter designed to operate on the AC voltage in the area the camera is being used.

Consult your nearest Olympus dealer or Service center for details.



## ● Power battery holder

The optional power battery holder (B-HLD20) allows you to shoot for longer than when using the lithium ion battery. Be sure to remove the battery compartment cover pushing to the direction of the arrow when attaching the power battery holder to the camera. For more details, read the instructions provided with the power battery holder.



1

Getting started



### TIPS

#### How to use the charger in the other country

→ To use the charger in the other country, equip the charger with an adapter plug suited to the AC outlet in the intended region of use. Please ask your travel agency about which adapter plug to use.



Note

- If the battery power runs out while the camera is connected to a PC or printer, the image data may be lost or damaged. You are recommended to use the AC adapter when transferring images to a PC or printer. Do not connect or disconnect the AC adapter while the camera is communicating with the PC 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.
- The battery consumption may vary according to the shooting conditions, etc.
- Power is consumed continuously during the conditions described below. This could reduce the number of pictures that can be taken.
  - When the monitor is turned on.
  - Repeated zoom adjustments.
  - Repeated auto-focus by depressing the shutter button halfway.
  - When the FULLTIME AF mode is turned on.
  - When the camera is connected to a PC or printer.
- When using an AC adapter, power is supplied to the camera by the AC adapter even if a battery is loaded in the camera. The AC adapter does not charge the battery in the camera.
- Carefully read the AC adapter's instructions before use.

# Inserting a card

"Card" in this manual refers to the xD-Picture Card, CompactFlash and Microdrive. The camera uses the card to record pictures. The xD-Picture Card can be used simultaneously with CompactFlash or Microdrive.

## Card basics

1

Getting started

The card corresponds to normal camera film for recording the pictures you have taken. Pictures recorded and stored on the card can easily be erased, overwritten, and/or edited on a PC.

The following cards can be used: Read the instructions for the card carefully before use.

### xD-Picture Card

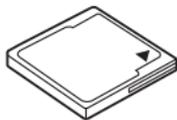
- 16 to 512MB



- ① Index area  
You can write down the card's contents.
- ② Contact area  
Comes into contact with the camera's signal read contacts.

### CompactFlash (CF) (optional)

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



### Microdrive (optional)

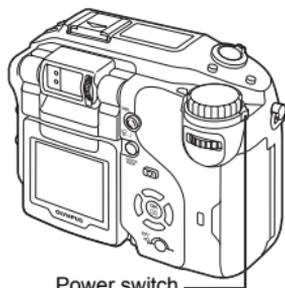
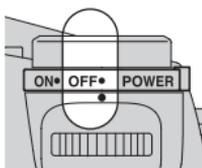
You can use Microdrive that supports CF+Type II (CompactFlash expansion standard). Microdrive is a compact hard disk drive. Be sure to read the "Precautions for using Microdrive" (P.31).



Note

- 340 MB Microdrive cannot be used.
- This camera may not recognize a non-Olympus card or a card that was formatted on another device (such as a PC). Before use, be sure to format the card on this camera.  "Formatting cards" (P.173)

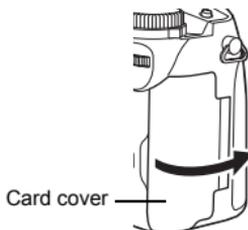
- 1 Make sure the power switch is set to OFF.



1

Getting started

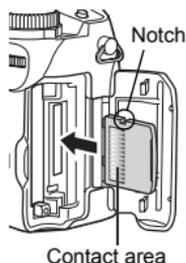
- 2 Open the card cover.



- 3 Insert a card.

#### xD-Picture Card

- Insert the card into the slot with the contact area toward you. Ensure the card is not inserted diagonally.
- Insert the card as far as it will go until it clicks.
- If the card is inserted incorrectly oriented or it is inserted at an angle, the contact area may be damaged or the card may become jammed.
- If the card is not inserted fully, it may not be able to record data.



### CompactFlash/Microdrive

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



- 4 Close the card cover securely until it clicks.

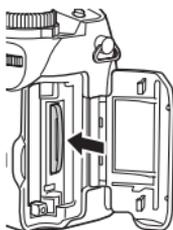
## Removing the card

### xD-Picture Card

- Push the card all the way in to unlock it, then let it return slowly.

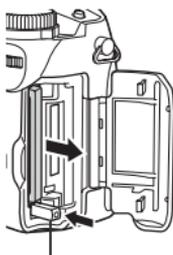
#### Note

Releasing your finger quickly after pushing the card all the way in may cause it to eject forcefully out of the slot.



### CompactFlash/Microdrive

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



Eject button



Note

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

## Switching cards

The card currently in use is displayed on the control panel or monitor. Choose the card you want to record the picture on before taking the picture. The factory default setting is the xD-Picture Card. If only one card is inserted, that card is automatically selected. Card selection can also be made in Playback mode.

### 1 Press the card button repeatedly to select the card you want to use.

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



**xD** : xD-Picture Card

**CF** : CompactFlash  
or Microdrive



Card button

1

Getting started

### ● Precautions for using Microdrive

The following restrictions apply when using Microdrive. Read the instructions provided with your Microdrive.

You are recommended to use an xD-Picture Card or CompactFlash card when taking important pictures.

#### Operating environment

Microdrive is a compact hard disk drive. As it is a rotating recording medium, it is not as resistant to vibration or impact as the solid recording medium of other cards.

When using Microdrive, be careful not to subject the camera to vibration or impact. (Special care is needed during recording and playback.)

- Do not bang the camera down on the table during recording.
- Be careful not to hit the camera against anything when carrying it on your shoulder.
- Do not use the camera where the ground is likely to vibrate, such as a construction site.
- Do not use the camera in the car while driving along a bumpy road where the camera will be badly shaken.

### Precautions regarding Microdrive

- Do not write on the label.
- Do not remove the label.
- Do not stick another label on top of the label.
- It is advisable to keep Microdrive in its case for storage or transportation.
- Microdrive may become hot if used for an extended period of time. Care should be taken when handling Microdrive.
- Do not take close to where there is strong magnetism.
- Do not apply strong pressure to the cover.

### Camera operations

Using Microdrive may increase the battery consumption. To reduce consumption of the battery, observe the following.

- Whenever possible, refrain from using the monitor during shooting.
- Unless there is a particular need, remove the xD-Picture Card when using Microdrive.
- If nothing happens when the buttons are pressed, remove the battery, then put it back again.
- If you use Microdrive when the battery power is low, the camera may not turn on.

### If CARD ERROR is displayed

- If no pictures can be recorded or downloaded, run SCANDISK on a PC.  
     "Error codes" (P.223)

# Turning the power on/off

## ● Power on

1 Remove the lens cap.



1

Getting started

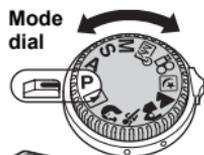
2 Pull the monitor out and rotate it.

- Some of the camera's functions cannot be operated if the monitor is left closed. Be sure to open the monitor before shooting or playing back images.
- You can change the angle of the monitor.  "Taking still pictures using the monitor" (P.65)



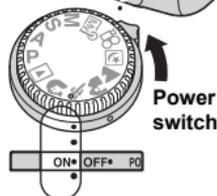
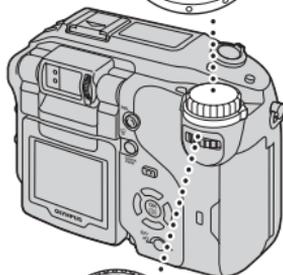
- 3 Turn the mode dial until the mode you want to use is aligned with the red line.**

 "Shooting mode" (P.59)



- 4 Turn the power switch so that ON is aligned with the ● mark.**

- When the mode dial is set to a mode other than , the camera turns on in the shooting mode. The monitor turns on and the lens extends.
- When the mode dial is set to , the camera turns on in the playback mode and the monitor turns on.
- You can also change the mode with the camera turned on.



## ● Power off

- 1 To turn the power off, turn the power switch so that OFF is aligned with the ● mark.**

- The monitor turns off, the lens retracts and the power turns off.

- 2 Turn the monitor towards the camera and close it.**

- To protect the monitor, you are recommended to keep it closed when the camera is not in use.



## TIPS

- To reduce battery consumption, the camera automatically enters the sleep mode after about 3 minutes of non-operation. The camera activates again as soon as you touch the shutter button or zoom lever.
- To reduce battery consumption, the camera turns off automatically and the lens retracts after about 4 hours of non-operation. To resume operation, turn the camera on again.



Note

- If the camera is subjected to strong vibration or impact while it is turned on, it may turn off momentarily and the date and other settings return to the factory default settings.

## Startup/Shutdown screen

You can select a picture and sound so that when the power is turned on/off, a startup/shutdown image is displayed on the monitor and the startup/shutdown sound is played (P.188). You can register a picture for the startup/shutdown screen (P.189) and adjust the volume of the sound (P.187).



Startup/Shutdown screen (Factory default setting)

1

Getting started

## If the card is not recognized (card check)

When the power is turned on, the camera checks the card automatically. If there is no card in the camera or a card that is not supported by this camera is inserted, the following screen is displayed.

Control panel	Monitor indication	Corrective action
		There is no card in the camera or the card is not inserted properly. → Insert a card. If a card is already inserted, remove it and insert it again correctly.
		The card cannot record, play back or erase pictures. Replace the card. with a new one or format the card. → Press   to select POWER OFF, then press . Replace the card with a new one. → Format the card. Press   to select  FORMAT, then press  to display the confirmation screen. Select YES and press . Formatting starts. If the card was successfully formatted, the camera is ready to take pictures.



- All data stored on the card is erased when the card is formatted.

# Selecting a language for on-screen display

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

This reference manual shows the English on-screen display in the illustrations and explanations.

## 1 Set the mode dial to **P** and turn the camera on.

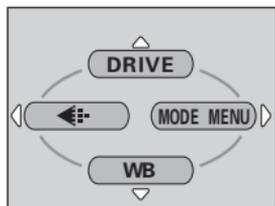
- You can select the language in all modes.



## 2 Press .

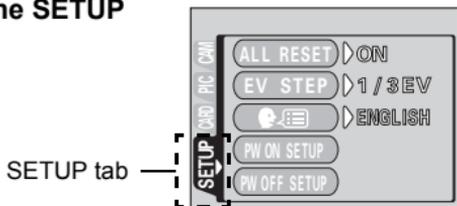
- The top menu is displayed.

## 3 Press on the arrow pad to select **MODE MENU**.



Top menu

## 4 Press to select the **SETUP** tab, then press .



- 5 Press   to select , then press .

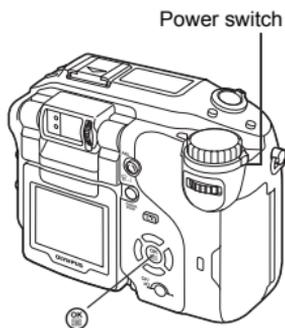


- 6 Press   to select a language, then press .



- 7 Press  again to exit the menu.

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



# Setting the date and time



- 1 Set the mode dial to P and turn the camera on.**

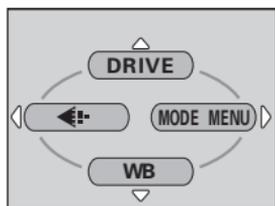
- You can set the date and time in all modes.



- 2 Press .**

- The top menu is displayed.

- 3 Press  on the arrow pad to select MODE MENU.**



Top menu

- 4 Press   to select the SETUP tab, then press .**

SETUP tab



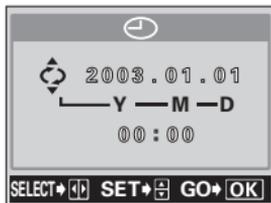
- 5 Press   to select , then press .**

- The green frame moves to the selected item.
- Press  repeatedly to change the page until  is displayed.



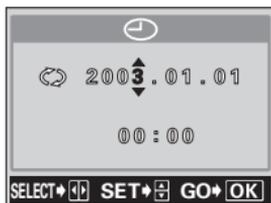
- 6** Press to select one of the following date formats: Y-M-D (Year/Month/Day), M-D-Y (Month/Day/Year), D-M-Y (Day/Month/Year). Then press .

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



- 7** 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.



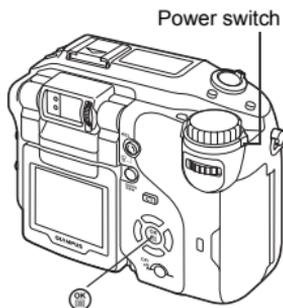
- 8** Repeat this procedure until the date and time are completely set.

- The time is displayed in the 24-hour format. For example, 2pm will be displayed as 14:00.

- 9** Press .

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

- 10** To turn the camera off, set the power switch to OFF.



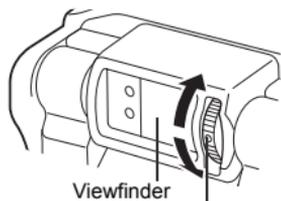
Note

- The date and time settings will be canceled if the camera is left without the battery for approximately 5 days. The settings will be canceled more quickly if the battery was only loaded in the camera for a short time before being removed. Check that the correct date and time have been set before shooting.

# Adjusting the viewfinder

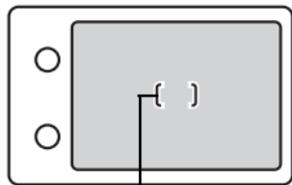
You can adjust the viewfinder to match your eyesight (visual acuity).

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



Diopter adjustment dial

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



AF target mark

1

Getting started

# Holding the camera

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

Horizontal grip



Vertical grip



1

Getting started

Top view



- Clear pictures cannot be obtained if the camera moves as the shutter button is pressed. Hold the camera correctly, and press the shutter button gently.
- If an external force is exerted on the lens, the lens may fail to focus, and the warning indication may appear.  
! Error codes" (P.223)

# 2 Using the Buttons and Menus

## Direct buttons

This camera is equipped with direct buttons for quick operation and setting of various shooting and playback-related functions. The direct buttons have different functions in the shooting mode and in the playback mode. Holding down the direct buttons and turning the control dial allows you to make settings for each function (such as selecting menu items or changing setting values).

Certain function settings require the direct button to be pressed repeatedly.

## 2 Direct button operations

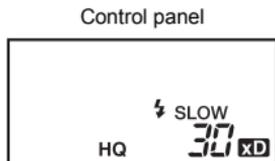
The procedure for making settings using the direct buttons and control dial is shown below. The setting screens are displayed on the monitor when pressing the direct button.

Ex: Using the flash mode button

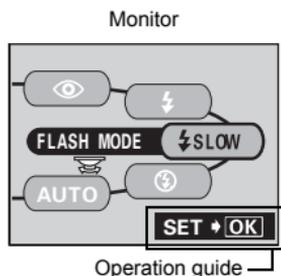
- 1 Turn the control dial while holding down  to select the flash mode.



- You can check the setting on the control panel.



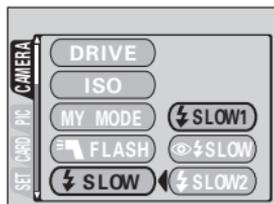
- The setting screen is displayed on the monitor.
- At the moment you release your finger from the direct button, the flash mode setting is made.



- If the operation guide is displayed at the bottom of the screen, you can select further options.

## 2 Press while holding down to display the menu. Release the direct button after the menu is displayed.

- The monitor jumps to the screen for changing the mode menu settings.



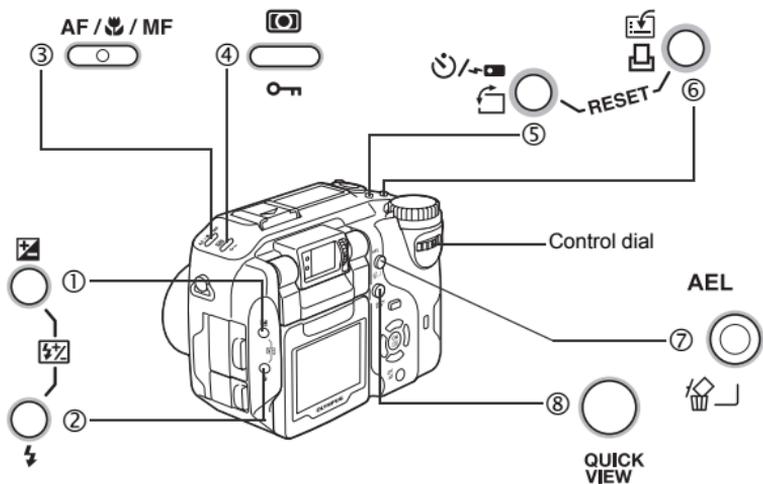
## 3 Press to select an item, then press .

- Press  again to exit the menu and return to shooting status.

## 2

## Direct button functions

### ● Shooting mode



Control dial

This means to turn the control dial while holding down the direct button to make function settings.

①

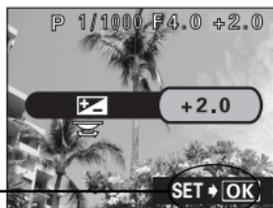
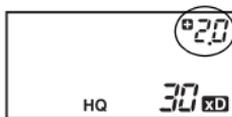
 (exposure compensation) button

 P.126

Changes the exposure compensation value.



Control dial

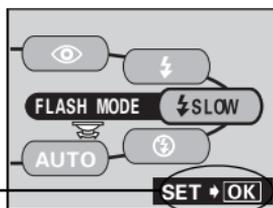
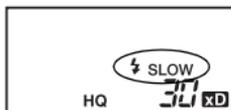


The histogram display can be set.  P.176

## ② ⚡ (flash mode) button

👉 P.74

Selects a flash mode from auto (no indication), red-eye reduction (👁), fill-in flash (⚡), slow synchronization (⚡ SLOW/👁⚡ SLOW) and flash off (🚫).



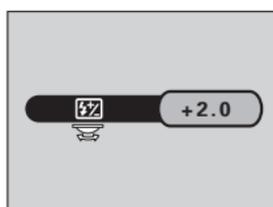
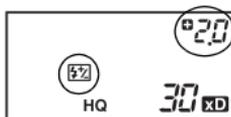
Slow synchronization can be set. 👉 P.79

## ①+②

Press at the same time ⚡ (flash intensity control) button

👉 P.80

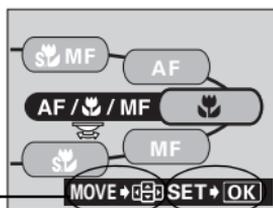
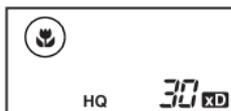
Adjusts the amount of light emitted by the flash.



## ③ AF/🌸/MF (AF/Macro/MF) button

👉 P.95, 103, 104

Selects a focus mode from auto-focus (no indication), macro (🌸), manual focus (MF), super macro (🌸 blinks) and super macro MF (MF blinks).



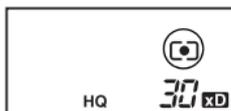
When the AF MODE is set to SPOT, the AF target mark can be moved. 👉 P.93

The AF MODE can be set. 👉 P.91

## ④ (metering) button

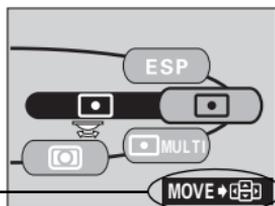
P.97, 99

Selects a metering mode from ESP (no indication), spot metering (☉), multi-metering (MULTI☉) and center-weighted metering (☉).



When the metering mode is set to ☉, the metering target can be moved.

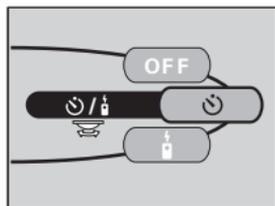
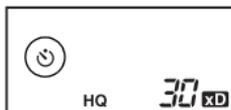
P.98



## ⑤ (self-timer/remote control) button

P.105, 106

Enables the self-timer function (⏸) or remote control function (☉).



## ⑥ (custom) button

P.164

Activates the function registered on the custom button. See "Custom button" (P.164) for details of how to register a function and use the button.

## ⑤+⑥

Press at the same time **RESET** button

P.195

When pressed simultaneously for at least 3 seconds, resets the camera's internal settings.

## ⑦ AEL (AE Lock) button

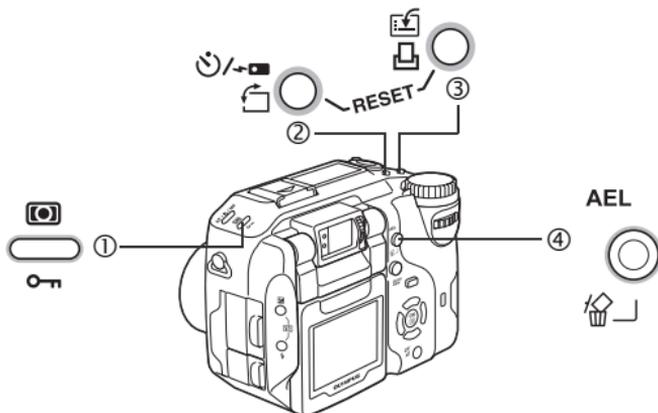
P.101

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

⑧ **QUICK VIEW** button

☞ P.140

Displays the last picture taken on the monitor.

● **Playback mode**① **Protect** button

☞ P.159

Protects important pictures from accidental erasure.

② **Rotation** button

☞ P.141

Rotates pictures 90 degrees clockwise or counterclockwise.

③ **Print** button

☞ P.200

Stores print reservation data on the card.

## ②+③

Press at the same time **RESET** button

☞ P.195

When pressed simultaneously for at least 3 seconds, resets the camera's internal settings.

④ **Erase** button

☞ P.160, 161

Erases a selected picture.

# Types of menus

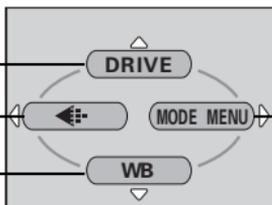
When you turn on the camera and press , the top menu is displayed on the monitor. The functions of this camera are set from the menu. This chapter explains how the menus work, using the **P** mode screens.



The top menu is displayed.

## Top menu

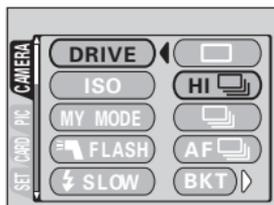
Press .



Use the arrow pad to select a menu.

## SHORTCUT MENU

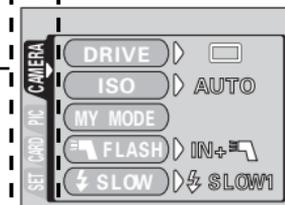
- Take you directly to the setting screens.
- Display operational buttons at the bottom of the screen.
- The functions registered in the shortcut menu can also be accessed from the MODE MENU.
- You can change the shortcut menus in any mode other than  modes.  
 "Shortcut" (P.167)



## MODE MENU

- Lets you access the menu selections to set the ISO value, sharpness, etc.
- Categorizes the settings into tabs.
- Displays the associated menu items when a tab is selected by pressing .

Tab

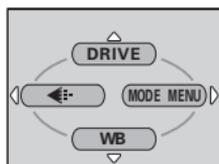


# How to use the menus

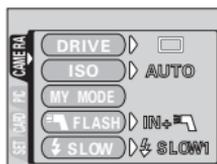
1 Press to display the top menu. Press .

2 Press to select a tab, then press .

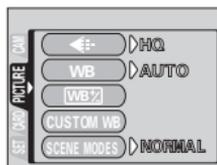
## Top menu



## CAMERA tab



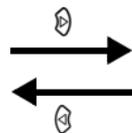
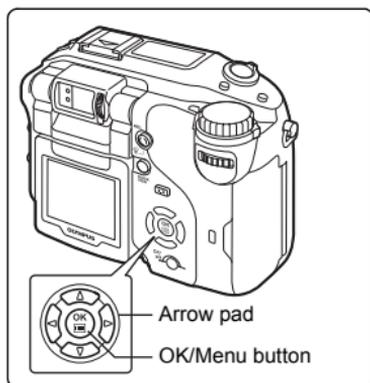
## PICTURE tab



## CARD tab



## SETUP tab



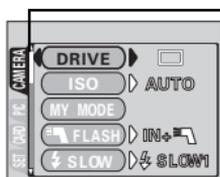
Press to return to the tab selection screen.

2

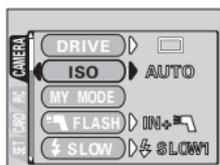
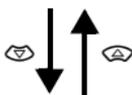
Using the Buttons and Menus

Continued on the next page

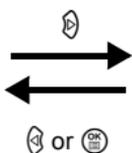
3 Press to select the item you want to set, then press .



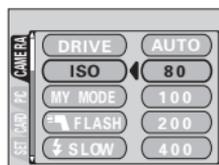
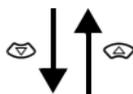
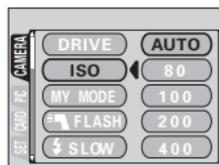
Slider bar  
Displayed when there are more items on the next page.



The green frame moves to the selected item.



To return to select an item, press or .



4 Press to select a setting. Press to complete setting. Press again to exit the menu.



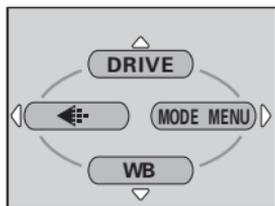
Note

- Not all items can be selected depending on the status of the camera and the settings performed.
- You can take pictures by pressing the shutter button in the shooting mode with the menu open.
- If you want to save the settings after the camera is turned off, set ALL RESET to OFF. "ALL RESET – Saving the camera's settings" (P.162)

# Shortcut menu

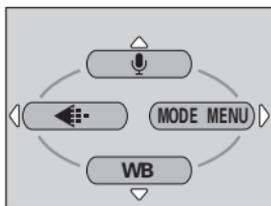
## ● Shooting mode

**P A S M**  mode  
(for still pictures)



(Factory default setting)

 mode  
(for movies)



### DRIVE

Selects a shooting mode from  (single-frame shooting), **HI**  (high speed sequential shooting),  (sequential shooting), **AF**  (AF sequential shooting) and **BKT** (auto bracketing).

P.108

### (movies)

Selects whether to record sound when shooting a movie.

P.118



Sets the image quality and resolution.

Still pictures : RAW, TIFF, SHQ, HQ, SQ1, SQ2

Movies : SHQ, HQ, SQ

P.120

### WB

Sets the appropriate white balance according to the light source.

P.128

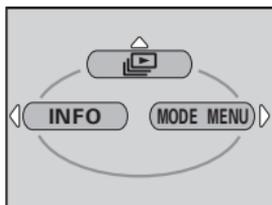


### TIPS

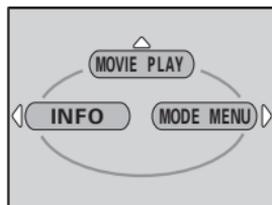
The functions registered in the shortcut menu can also be accessed from the MODE MENU. You can change the shortcut menu in any mode except  and  modes.  "Shortcut" (P.167)

## ● Playback mode

For still pictures



For movies



2

Using the Buttons and Menus



Runs through all saved pictures one after another.

P.145

### MOVIE PLAY

MOVIE PLAYBACK	Plays back movies.	P.146
INDEX	Creates an indexed view of a movie in 9 frames.	P.148
EDIT	Edits a movie.	P.150

### INFO

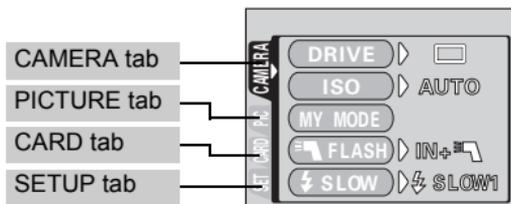
Displays detailed shooting information on the monitor.

P.175

# Mode menus

The MODE MENU functions are divided into tabs. Press to select a tab and display the associated menu items.

## ● Shooting mode



2

Using the Buttons and Menus

CAMERA tab		
DRIVE	Selects a shooting mode from  (single-frame shooting), <b>HI</b> (high speed sequential shooting),  (sequential shooting), <b>AF</b> (AF sequential shooting) and BKT (auto bracketing).	P.108
ISO	Selects the ISO sensitivity from AUTO, 80, 100, 200 and 400.	P.125
MY MODE	Selects a mode to be activated when taking pictures in  mode.	P.90
FLASH	When using an external flash, selects from IN+,  and SLAVE. When "SLAVE" is selected, adjusts the intensity of the built-in flash.	P.81
SLOW	Selects from  SLOW 1 (1st curtain),  SLOW (1st curtain with red-eye reduction) and  SLOW 2 (2nd curtain) when the flash mode is set to  SLOW (slow synchronization).	P.79
NOISE REDUCTION	Reduces the noise that affects pictures during long exposures.	P.137
DIGITAL ZOOM	Digitally enhances the maximum optical zoom.	P.73
FULLTIME AF	Keeps the image in focus at all times without having to press the shutter button halfway.	P.92
AF MODE	Selects the auto focus method (iESP or SPOT).	P.91

ACCESSORY	Set when using a conversion lens or underwater housing.	P.119
	Records sound when taking a still picture.	P.117
PANORAMA	Allows panorama pictures to be taken with Olympus CAMEDIA-brand cards.	P.111
2 IN 1	Combines two still pictures taken in succession and stores them as a single picture.	P.113
FUNCTION	Lets you add special effects to pictures (BLACK & WHITE, SEPIA, WHITE BOARD, BLACK BOARD).	P.116
	Displays a histogram showing the luminance distribution of still pictures.	P.176
	Displays useful guidelines on the monitor for composing photos well.	P.114
 REAL	Displays the subject on the monitor at close to the actual exposure when taking pictures in <b>M</b> mode.	P.89

PICTURE tab		
	Sets the image quality and resolution. Still pictures: RAW, TIFF, SHQ, HQ, SQ1, SQ2 Movies : SHQ, HQ, SQ	P.120
WB	Sets the appropriate white balance according to the light source.	P.128
	Lets you make fine changes to the white balance.	P.133
CUSTOM WB	Stores your preferred white balance setting.	P.130
SCENE MODES	Lets you take pictures suited to the situation and the desired effect (  ).	P.137
SHARPNESS	Adjusts the sharpness of the image.	P.134
CONTRAST	Adjusts the contrast of the image.	P.135
SATURATION	Adjusts the level of color depth without changing the tint.	P.136

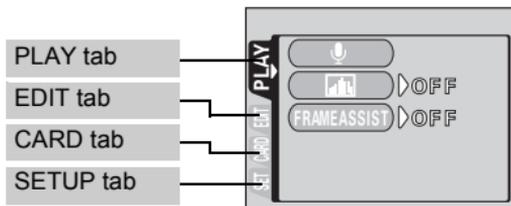
CARD tab		
CARD SETUP	Formats a card.	P.173
SETUP tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P.162
EV STEP	Selects whether to set the shutter speed, aperture value and exposure compensation, etc. in 1/3EV steps or in 1/2EV steps.	P.174
	Selects a language for on-screen display.	P.36
PW ON SETUP	Set the picture and sound for when the power is turned on.	P.188
PW OFF SETUP	Set the picture and sound for when the power is turned off.	P.188
REC VIEW	Displays the picture on the monitor while recording it to a card.	P.182
	Sets the beep sound used for warnings and adjusts the volume.	P.184
BEEP	Sets the beep sound used for button operations and adjusts the volume.	P.185
SHUTTER SOUND	Sets the sound made when the shutter button is pressed and adjusts the volume.	P.186
MY MODE SETUP	Customizes settings which are activated in the  mode.	P.170
FILE NAME	Changes how file names are assigned.	P.191
PIXEL MAPPING	Checks the CCD and image processing functions for errors.	P.192
	Adjusts the brightness of the monitor.	P.181
	Sets the date and time.	P.38
m/ft	Sets the measurement unit (m/ft) used during manual focus.	P.193
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type. TV video signal types differ depending on the region.	P.194
SHORT CUT	Lets you assign frequently used functions as shortcut menus.	P.167

CUSTOM BUTTON	Lets you assign a frequently used function to the camera's custom button.	P.164
DUAL CONTROL PANEL	Displays the same information on the control panel as on the monitor.	P.179
AF ILLUMINATOR	Turns on the AF illuminator to illuminate a dark subject.	P.94
USB	Sets whether the camera is connected to a PC or a printer with the USB cable.	P.197

## 2

### Using the Buttons and Menus

## ● Playback mode



PLAY tab*		
	Adds sound to a still picture already taken.	P.153
	Displays a histogram showing the luminance distribution of still pictures.	P.176
FRAME ASSIST	Displays horizontal and vertical lines on the image.	P.183

\* The PLAY tab is not displayed during movie playback.

EDIT tab		
RAW DATA EDIT	Sets the image quality, white balance, etc. of pictures taken in RAW data format and saves them as new files.	P.157
	Makes the file size smaller and saves it as a new file.	P.155
	Crops part of a picture and saves it as a new file.	P.155
COPY	Copies pictures to and from cards. Lets you select whether to copy all frames or only a selected frame.	P.158

CARD tab		
CARD SETUP	Erases all image data stored on the card or formats a card.	P.161 P.173

SETUP tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P.162
	Selects a language for on-screen display.	P.36

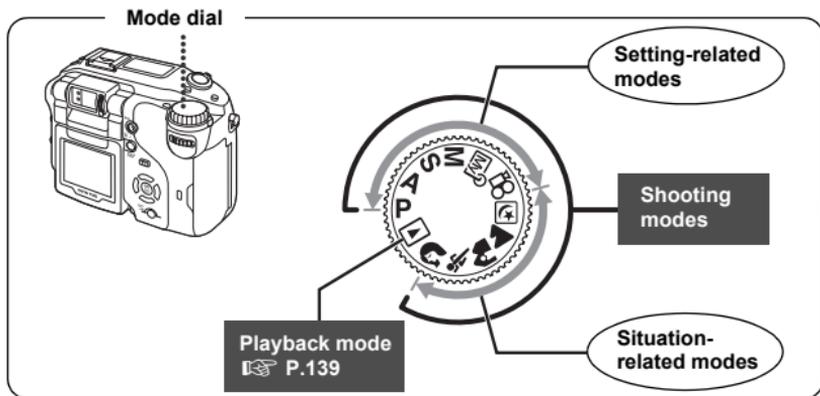
PW ON SETUP	Set the picture and sound for when the power is turned on.	P.188
PW OFF SETUP	Set the picture and sound for when the power is turned off.	P.188
SCREEN SETUP	Registers a stored picture for use as the picture displayed when the power is turned on or off.	P.189
VOLUME	Adjusts the sound volume during playback. Also adjusts the volume of the sound selected in PW ON SETUP and PW OFF SETUP.	P.187
 ))	Sets the beep sound used for warnings and adjusts the volume.	P.184
BEEP	Sets the beep sound used for button operations and adjusts the volume.	P.185
	Adjusts the brightness of the monitor.	P.181
	Sets the date and time.	P.38
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type. TV video signal types differ depending on the region.	P.194
	Selects the number of frames in the index display.	P.144
USB	Sets whether the camera is connected to a PC or a printer with the USB cable.	P.197

# 3 Shooting basics

## Shooting mode

The shooting modes include modes where the optimal settings for the situation are automatically selected, and modes where you can select the settings best suited to the shooting conditions and the effect you wish to achieve.

You can change the mode with the camera turned on, or off.



## Setting-related modes

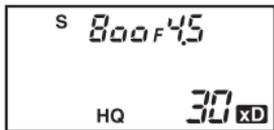
### P Program shooting

The camera automatically sets the optimum aperture value and shutter speed for the brightness of the subject. Other functions, such as flash modes and drive modes, can be adjusted manually.

#### ● Program shift

Program shift allows you to change the combination of aperture value and shutter speed set by the camera without altering the exposure.

- Press to change the shutter speed and aperture value.
- S is displayed on the control panel.
- Press to cancel program shift.
- Changing the shooting mode also cancels program shift.



## A Aperture priority shooting

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 in the forward and backward directions, resulting in a picture in which both the subject and the background are in focus.

☞ “Aperture priority shooting” (P.86)



Aperture (F-number) is decreased.

Aperture (F-number) is increased.

## S Shutter priority shooting

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.

☞ “Shutter priority shooting” (P.87)



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.

## M Manual shooting

Allows you to set the aperture and shutter speed manually. To check the exposure, refer to the exposure status display. This mode gives you more creative control, allowing you to make the settings you need to get the type of picture you want, regardless of optimum exposure.

☞ “Manual shooting” (P.88)

## My Mode

Allows you to save your favorite settings as your own personal mode and use these customized settings when taking pictures. Current settings can also be saved for retrieving by this mode. ☞ “MY MODE SETUP – Setting a function in My Mode” (P.170)

☞ “Using My Mode” (P.90)

## Movie record

This function allows you to record movies. The camera automatically determines the aperture and shutter speed. Sound is recorded at the same time. The focus and zoom are locked. If the distance to the subject changes, focus may be compromised.

☞ “Recording movies” (P.70)

## Situation-related modes

### 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. The camera automatically selects the optimal settings for this type of shooting condition. Since the shutter speed is slow, make sure you stabilize the camera by using a tripod.



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## 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. The camera automatically sets the optimal shooting conditions.

## Landscape + Portrait shooting

---

Suitable for taking pictures of both your subject and the background. 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. The camera automatically sets the optimal shooting conditions.

## Sports shooting

---

Suitable for capturing fast-moving action (such as sports) without blur. Even a fast-moving subject will be clear and sharp, as if it is not moving, enabling you to capture facial expressions and detailed activity. The camera automatically sets the optimal shooting conditions.

## Portrait shooting

---

Suitable for taking a portrait-style shot of a person. This mode features an in-focus subject against a blurred background. The camera automatically sets the optimal shooting conditions.



- The available settings vary depending on the mode.  “List of items by shooting mode” (P.241)

# Taking still pictures

You can take still pictures using either the viewfinder or the monitor.

## Taking still pictures using the viewfinder

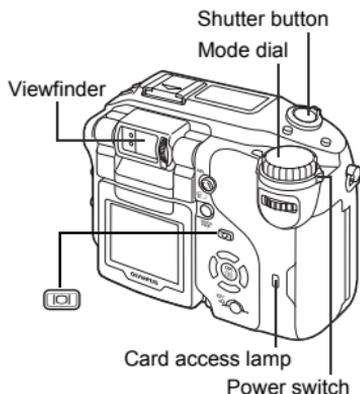
The camera actually records a wider area than the picture you compose while looking through the viewfinder.



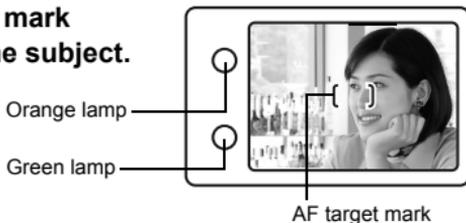
### 1 Set the mode dial to either P A S M and turn the camera on.

Turning the power on/off (P.33)

- If you take pictures with the viewfinder, press  to turn the monitor off when the monitor is on.

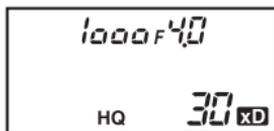


### 2 Position the AF target mark in the viewfinder on the subject.



### 3 Press the shutter button gently (halfway) to adjust the focus.

- When the focus and exposure are locked, the green lamp lights steadily.
- When the orange lamp lights steadily, the flash fires.
- The shutter speed and aperture value are displayed on the control panel.

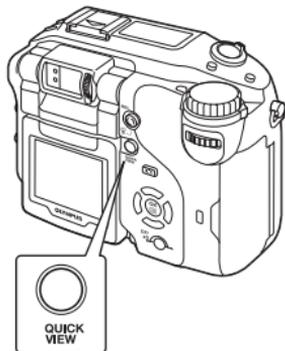


**4 Press the shutter button all the way (fully).**

- The camera takes the picture.
- The card access lamp blinks while the picture is stored on the card.



You can check the picture you have taken by pressing the QUICK VIEW button. "QUICK VIEW" (P.140)

**TIPS****The subject cannot be focused on.**

→ "If correct focus cannot be obtained" (P.68)

**The green lamp blinks.**

→ You are too close to the subject. Take the picture at least 20 cm (7.9") away from the subject. If you use the super macro mode, you can take pictures as close as 3 cm/1.2" from the subject.

"Super macro shooting" (P.104)

→ Depending on the subject, the focus and exposure may not be locked. "Subjects that are difficult to auto focus on" (P.69)

**The orange lamp blinks when the shutter button is pressed halfway.**

→ The flash is charging. Remove your finger from the shutter button and wait until the lamp goes off.

**To check the picture you have just taken immediately.**

→ Set REC VIEW to ON. "REC VIEW – Checking the picture immediately after shooting" (P.182)

**To record sound when taking pictures.**

→ You can record sound when taking still pictures. Set to ON.

"Recording sound with still pictures" (P.117). You can also add sound to a picture that has already been taken.

"Recording sound" (P.153)

## Taking still pictures using the monitor

With the monitor, you can shoot while checking the picture area that the camera actually records. You can also check the shooting status, such as the aperture value and shutter speed.

**Using the camera with the monitor on will shorten the life of the battery. You are recommended to turn off the monitor if you do not need it.**

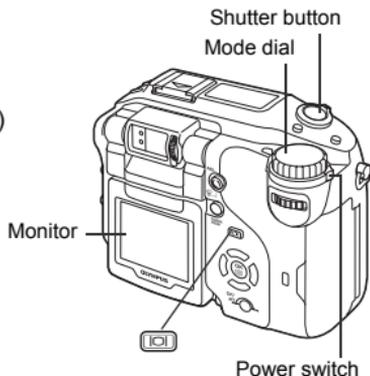
Mode dial



### 1 Set the mode dial to P A S M

and turn the camera on.

"Turning the power on/off" (P.33)



### 2 When the monitor is off, press

to turn on.

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

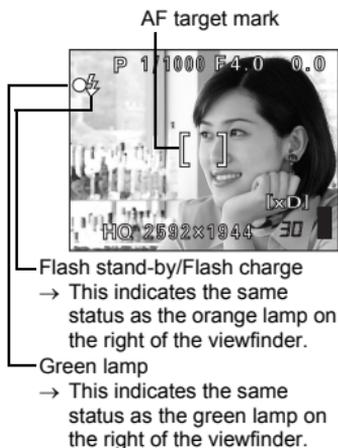


**3** Position the AF target mark on the subject while looking at the image on the monitor.

**4** Take the picture by following the same procedure as for shooting using the viewfinder.

 "Taking still pictures using the viewfinder" (P.63)

- When the focus is locked by pressing the shutter button halfway, the green lamp on the monitor lights steadily. The AF target mark moves to the focused position. If you cannot focus on the subject, select SPOT for the AF mode and then shoot.  "AF MODE - Changing the focus range" (P.91)
-  lights when the flash fires.



#### TIPS

##### The monitor turned off.

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

##### The monitor is hard to see.

→ Bright light, such as direct sunlight, may cause vertical lines to appear on the monitor screen. In this case, use the viewfinder.

##### To check the area the camera is focusing on

→ If you press  while pressing the shutter button halfway, the area you are focusing on is enlarged. Pressing  once more returns the size to normal. This function is not available in the digital zoom range.

 "Using the digital zoom" (P.73)



Also see the TIPS on "Taking still pictures using the viewfinder" (P.64).

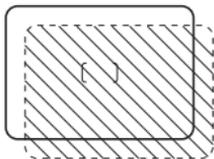


Note

- Press the shutter button gently using the ball of your finger. If it is pressed hard, the camera may move and pictures may come out blurred.
- Recorded pictures will be saved on the card regardless of whether the camera is turned off or the battery is replaced or removed.
- Never open the card cover, remove the battery or connect/disconnect the AC adapter while the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.
- When taking pictures against strong backlight, the area of the picture in shadow may appear colored.
- When you point the camera lens toward a bright subject, smears (lines like beams of light) may appear on the image in the monitor. This does not affect recorded pictures.

## Comparison of the viewfinder & monitor

	Viewfinder	Monitor
Advantages	Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.	You can check the picture area that the camera actually records more accurately.
Disadvantages	When close to a subject, the image in the viewfinder is a little different from the picture that the camera actually records.	Camera movement can occur easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.
Tips	Use the viewfinder for general snapshots (landscape pictures, casual shots, etc.). (Approx. 0.8 m/2.6 ft. to $\infty$ )	Use the monitor when you want to shoot while checking the picture area that the camera actually records, or take pictures when the subject is less than 0.8 m/2.6 ft. away, such as close-up shots of people or flowers (macro shooting).



- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded becomes lower than the one in the viewfinder (see left).

# If correct focus cannot be obtained

When the subject you want to focus on is not in the center of the frame and you cannot position the AF target mark on it, you can focus the camera on another point at roughly the same distance (focus lock) and take the picture as explained below.

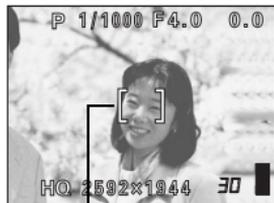
## Determine the position of the subject after focusing (Focus Lock)

Mode dial

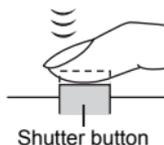


### 1 Position the AF target mark on the subject you want to focus on.

- 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



Shutter button

### 2 Press the shutter button halfway and check that the green lamp lights steadily.

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

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

Green lamp



Shutter button

### 4 Press the shutter button all the way (fully).

**TIPS**

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

☞ “AE Lock - Locking the exposure” (P.101)

## Subjects that are difficult to auto focus on

Under certain types of conditions, the auto focus may not work properly. 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.95)

The green lamp blinks.

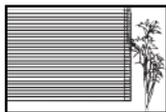
The subject cannot be brought into focus.



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.

# Recording movies



You can also record movies with this camera. Sound is recorded at the same time. The focus and zoom are locked. If the distance to the subject changes, focus may be compromised.

## Mode dial



### 1 Set the mode dial to and turn the camera on.

 "Turning the power on/off" (P.33)

- The seconds remaining on the card that you are using is displayed on the monitor.



### 2 Decide the composition while looking at the image on the monitor.

- You can use the zoom lever to enlarge your subject.



### 3 Press the shutter button fully to start recording.

- The focus and zoom are locked.
- The orange lamp on the left of the viewfinder lights.
- During movie recording,  lights red.



Seconds remaining

### 4 Press the shutter button again to stop recording.

- When the seconds remaining has been used up, recording stops automatically.
- When there is space in the card memory, the seconds remaining are displayed, and the camera is ready to shoot.

 "Movie Record Modes" (P.123)

**TIPS****To keep your subject in focus all the time while shooting**

→ Set (movie) to OFF and FULLTIME AF to ON. "FULLTIME AF - A reliable time-saving way to focus" (P.92)

**To use the zoom while shooting**

→ Set DIGITAL ZOOM to ON. "Using the digital zoom" (P.73)  
 → Set (movie) to OFF, and you can use the optical zoom while shooting. "Recording sound with movies" (P.118)



Note

- Depending on the card, the seconds remaining may drop rapidly during recording. Try using the card again after formatting it. "Formatting cards" (P.173).
- When is set to ON, the movie is recorded with the focus that was set when the shutter button was pressed in Step 3. If the distance to the subject changes, focus may be compromised.
- In mode, the flash and manual focus (MF) cannot be used.

**Notes for recording movies over a long time**

- Recording will continue until the card is full unless stopped by pressing the shutter button.
- A long recorded movie cannot be edited. (P.148)
- If a single movie recording uses up all of the card's memory, create space on the card by deleting the movie or downloading it to a PC.

# Zoom

Telephoto and wide-angle shooting are possible at 4x magnification (the optical zoom limit, equivalent to 27 mm to 110 mm on a 35 mm camera). By combining the optical zoom with the digital zoom, zoom magnification can be increased to a maximum of approximately 14x.

Camera movement is likely to occur at higher magnifications. Stabilize the camera with a tripod, etc. to avoid camera movement.

## Using the optical zoom

Mode dial

P A S M       

3

Shooting basics

### 1 Turn the zoom lever.

Zoom lever



Wide-angle:

Turn the zoom lever toward W to zoom out.

Telephoto:

Turn the zoom lever toward T to zoom in.



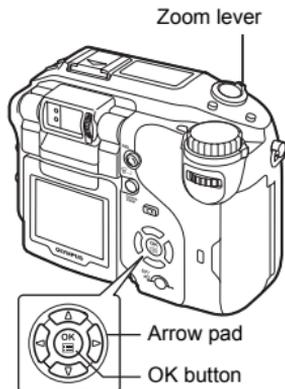
## Using the digital zoom



- 1** In the top menu, select **MODE MENU** → **CAMERA** → **DIGITAL ZOOM** → **ON**, and press .

 "How to use the menu" (P.49)

- Press  again to exit the menu and the subject is displayed on the monitor.



- 2** Turn 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 cursor moves up and down on the zoom indicator according to the zoom magnification. The cursor turns orange when inside the digital zoom field.



Note

- In  mode, the maximum digital zoom magnification is 2.5x.
- Pictures taken with the digital zoom may appear grainy.
- The digital zoom cannot be used when the monitor is turned off. Turn the monitor on to enable the digital zoom.

# 4 Flash

## Flash shooting



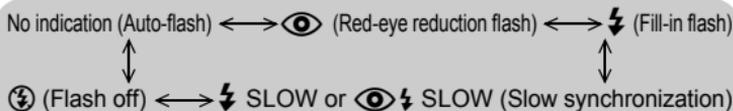
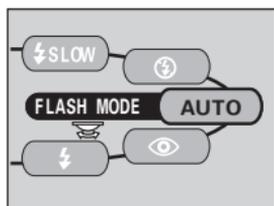
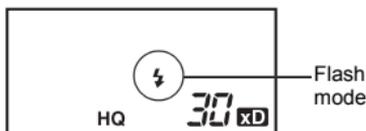
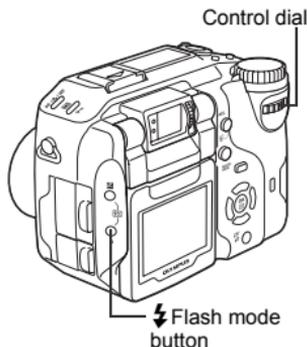
Select the flash mode best suited to the light conditions and the effect you want to achieve. You can also adjust the amount of light emitted using the flash intensity control.

Mode dial



### 1 Set the flash mode by turning the control dial while holding down

- The flash mode changes as follows and the selected mode is displayed on the control panel (Selectable flash modes may differ depending on the shooting mode.).



### 2 Press the shutter button halfway.

- The orange lamp and mark light when the flash is ready to fire.

Orange lamp



Viewfinder



Monitor

### 3 Press the shutter button fully to take the picture.

Flash working range

W (max.): Approx. 0.8 m to 3.7 m (2.6 ft. to 12 ft.)

T (max.): Approx. 0.8 m to 2.2 m (2.6 ft. to 7 ft.)



#### TIPS

**The orange lamp or the ⚡ (flash standby) indication blinks.**

→ The flash is charging. Wait until the orange lamp or ⚡ goes off.

**Camera movement warning (Auto-flash, red-eye reduction, fill-in flash)**

→ When the orange lamp or ⚡ lights, the flash fires automatically but the shutter speed locks at a level at which camera movement is not likely to occur. The zoom position changes depending on the level at which the shutter speed locked.

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



Note

• AUTO, , ⚡ and ⚡ SLOW are not available in **S** and **M** modes.

• The flash does not fire in the following situations:

In mode, during sequential shooting (**HI** , , **AF** , **BKT**), during super-macro shooting, when FUNCTION is set to WHITE BOARD/BLACK BOARD, during Panorama shooting.

- The flash may not give you the optimum result in macro mode, especially with wide-angle shooting. Check the resulting picture on the monitor.
- When a conversion lens is attached to the camera, vignetting may occur. To take flash pictures, use an external flash.

### ● **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 significantly reduces this phenomenon by emitting pre-flashes before firing the regular flash. This helps accustom the subject's eyes to the bright light and minimizes the red-eye phenomenon.



The subject's eyes appear red.

4

Flash



Note

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

### ● **Fill-in flash (⚡)**

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



Note

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

## ● Flash off (🚫)

The flash does not fire even in low light conditions. Use this mode in situations where flash photography is not desired or is prohibited. You can also use this mode when you want to shoot a natural-looking twilight or night scene.



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.

In **S** and **M** modes, the flash fires at the selected shutter speed.



### 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. The factory default setting for slow synchronization is ⚡ SLOW1.

## 2nd curtain (rear curtain) ⚡ SLOW2

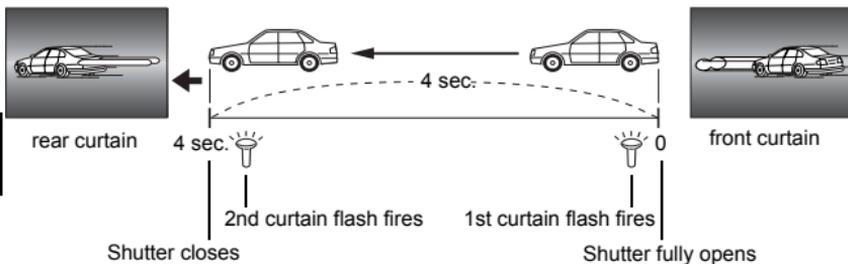
The 2nd curtain fires just before the shutter closes. Changing the flash timing can create interesting effects in your picture, such as expressing the movement of a car by showing the tail-lights streaming backwards. The slower the shutter speed, the better the effects turn out.

The slowest possible shutter speed depends on the shooting mode:

**M** mode : 15 sec. (Bulb shot is also available.)

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

When the shutter speed is set to 4 sec.



4

Flash

## 1st curtain with red-eye reduction ⚡ SLOW1

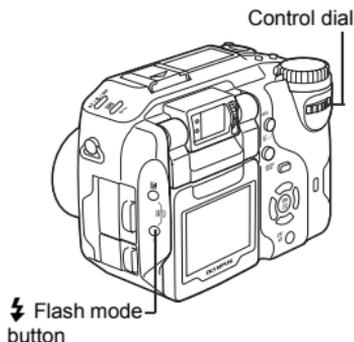
This mode is for when you want to use slow synchronization, yet also reduce the red-eye phenomenon. For instance, when shooting a person against a brightly lit night background. A normal flash might make the person's eyes red, but 1st curtain with red-eye reduction lets you capture the background correctly and reduce the red-eye phenomenon at the same time. 2nd curtain with red-eye reduction is not available.

# Using the slow synchronization flash **⚡ SLOW**

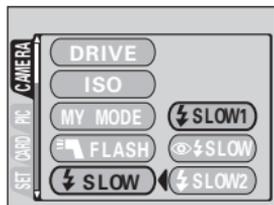
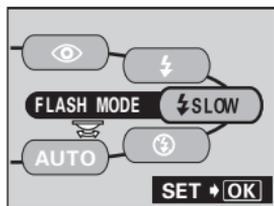
Mode dial

P A S M      

- 1 Turn the control dial while holding down **⚡** and select **⚡ SLOW**.



- 2 While holding down **⚡**, press .
  - After the menu is displayed, release **⚡**.
- 3 Press   to select **⚡ SLOW1**,  **⚡ SLOW** or **⚡ SLOW2**, then press .
  - Press  again to exit the menu.



?

## TIPS

Slow synchronization can also be set from the MODE MENU.

→ In the top menu, select MODE MENU → CAMERA → **⚡ SLOW** → **⚡ SLOW1**,  **⚡ SLOW** or **⚡ SLOW2**, then press .

 “How to use the menus” (P.49)

4

Flash



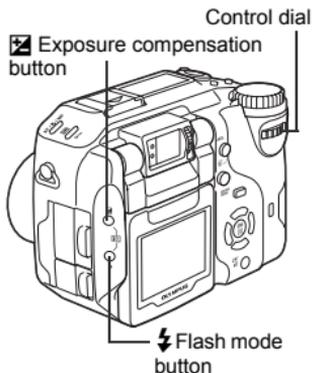
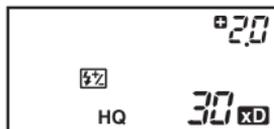
You can adjust the amount of light emitted by the flash. In some situations, you may get better results by adjusting the light emission. Examples include small subjects, distant backgrounds, or situations when increased contrast is desired.

Mode dial

P A S M

## 1 Adjust the brightness by turning the control dial while holding down and at the same time.

- The exposure value is displayed on the control panel while the flash intensity control function is set.



Turning to the left decreases the light emission.  
Min. setting is -2.0.



Turning to the right increases the light emission.  
Max. setting is +2.0.

### TIPS



- The flash intensity can be set in 1/3EV steps or 1/2EV steps.  
 "Exposure steps – Selecting the adjustment increments" (P.174)



Note

- The flash adjustment effect may not be sufficient if the shutter speed is faster than 1/300.

# External flash (optional)

## Using the external flash

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

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

If the external flash is used, flash mode and exposure compensation will be detected automatically by the camera, allowing the built-in flash and external flash to function together.

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

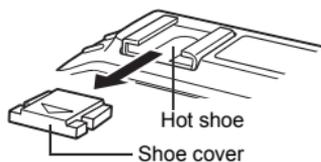
This chapter explains how to use the FL-20 when attached to the hot shoe.

Mode dial



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

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



4

Flash

**2 In the top menu, select MODE MENU → CAMERA →  FLASH.**

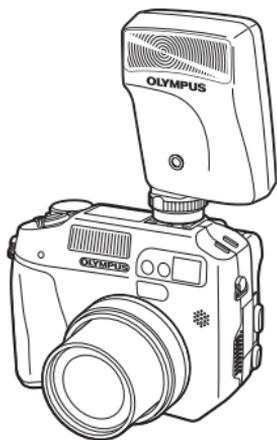
 "How to use the menus" (P.49)

**To use the external flash only**

→ Select , then press . Press  again to exit the menu.

**To use the external flash together with the built-in flash**

→ Select IN+, then press . Press  again to exit the menu.



**4**

Flash

**3 Turn on the external flash.**

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

**4 Select the flash mode by turning the control dial while holding down .**

 "Flash shooting" (P.74)



Note

- If close-up pictures are overexposed, try using the built-in flash by itself.
- When the built-in flash and the external flash are used together, the built-in flash is used as the compensating light source. This means that if the amount of light from the external flash is insufficient (beyond its working range), the resulting pictures may be underexposed.

## Using commercially available external flashes

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

### Mode dial



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

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

#### 2 Select M mode. Adjust the shutter speed and aperture.

"Manual shooting" (P.88)

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

#### 3 Turn on the external flash.

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

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

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



Note

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

## Compatible commercially available external flashes

**When selecting an external flash, use products which meet the following basic conditions.**

- (1) Some flashes available on the market operate with a high voltage synchro terminal. If one of these is used, it may damage the camera, and/or the camera may not function normally. Contact the manufacturer of the flash you are using concerning the specifications of the flash's synchro terminal.
- (2) Some flashes available on the market have the polarity of the synchro terminal reversed. In this case, even if the flash is connected, it will not fire. Contact the manufacturer of the flash for more information.
- (3) Exposures when using an external flash require that adjustments be made on the external flash unit. If an external flash is used in the auto mode, match it with the F value and ISO sensitivity settings on the camera.
- (4) Even if the auto F value and ISO sensitivity of the external flash are set to the same conditions as those on the camera, depending on the photographic conditions, it is possible that the correct exposure may not be obtained anyway. In such a case, adjust the auto F value or ISO value on the external flash unit or calculate the distance in the manual mode and use it that way.
- (5) Use a flash whose illuminating angle covers the angle of view of the lens. However, in close-up photography with the lens on the wide setting, the bottom of the image may not expose correctly. The ideal is to have a wide angle adapter to fit on the flash and spread the illumination angle so it is wider.
- (6) Use a flash unit with a flash time of 1/200 sec. or less when using the flash at full strength. For devices with a long flash time, a portion of the light emitted will not contribute to the exposure.
- (7) **If a flash unit or other accessory TTL flash that has additional communications functions other than an Olympus FL series flash is used, it may not only fail to function normally, but may also cause damage to the camera's circuitry. Do not use such a device.**

## Using a slave flash mode

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

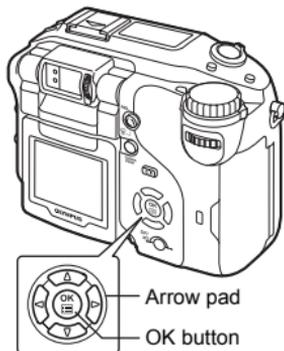
AUTO,  : The setting is automatically changed to  (Fill-in flash).

  SLOW : The setting is automatically changed to  SLOW1.

Mode dial

 **A M**

- In the top menu, select **MODE MENU** → **CAMERA** →  **FLASH** → **SLAVE**, and press .  
 "How to use the menus" (P.49)



- Press   to select an emission level from 1 to 10, then press .
- Press  repeatedly until the menu goes off.

4

Flash

# 5 Advanced shooting

## Aperture priority shooting

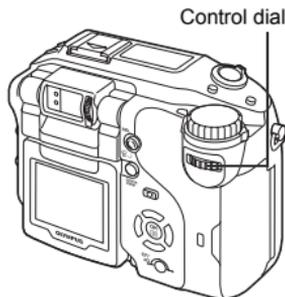
**A****Mode dial**

### 1 Turn the control dial to set the aperture value.

Turn to the left to decrease the aperture value (F number).

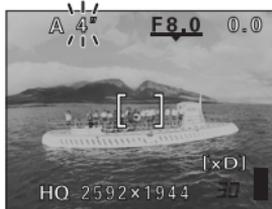


Turn to the right to increase the aperture value (F number).



- You can change the adjustment range for the aperture. “Exposure steps – Selecting the adjustment increments” (P.174)
- When the shutter button is pressed halfway, the shutter speed is displayed on the control panel.
- If the image is underexposed or overexposed when the shutter button is halfway pressed, the shutter speed indication blinks.

Control panel	Monitor	Meaning
	Lights Displayed in green	The aperture setting is suitable for the conditions.
	Blinks Displayed in red	The aperture setting is unsuitable for the conditions. Take the following steps when the monitor is turned on.



▲ appears: The image is overexposed. ▼ appears: The image is underexposed.  
Turn the control dial to the right to increase the aperture value. Turn the control dial to the left to reduce the aperture value.

Aperture range: Toward W: f2.8 to f8.0, Toward T: f4.8 to f8.0

**Note**

- When the flash is set to the auto-flash mode or the fill-in flash mode, the shutter speed is fixed at 1/30 sec. in the maximum wide angle, or 1/100 sec. in the maximum telephoto, and will not go slower.

**5****Advanced shooting**

## Mode dial



### 1 Turn the control dial to set the shutter speed.

Turn to the left to set a slower shutter speed.



Turn to the right to set a faster shutter speed.



- You can change the adjustment range for the shutter speed. “Exposure steps – Selecting the adjustment increments” (P. 174)
- Pressing the shutter button halfway displays the aperture value on the control panel.
- If the image is underexposed or overexposed when the shutter button is halfway pressed, the aperture value indication blinks.

Control panel	Monitor	Meaning
	Lights	Displayed in green The shutter speed setting is suitable for the conditions.
	Blinks	Displayed in red The shutter speed setting is unsuitable for the conditions. Take the following steps when the monitor is turned on.



▲ appears: The image is overexposed. Turn the control dial to the right to set the shutter speed faster.

▼ appears: The image is underexposed. Turn the control dial to the left to set the shutter speed slower.

Shutter speed range : 4 to 1/2000 sec.



Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.

Mode dial

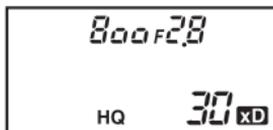


## 1 Set the aperture by turning the control dial while holding down



- You can change the adjustment range for the aperture and the shutter speed.

☞ "Exposure steps – Selecting the adjustment increments" (P.174)



Exposure compensation button Control dial



Turn to the left to decrease the aperture value (F number).



+



Turn to the right to increase the aperture value (F number).

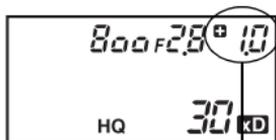
## Turn the control dial to set the shutter speed.

Turn to the left to set a slower shutter speed.



Turn to the right to set a faster shutter speed.

- 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 status display flashes on the control panel or appears in red on the monitor, it indicates that the exposure differential is less than -3.0 EV or more than +3.0 EV.



Exposure differential



- When you press the AEL (AE Lock) button, the screen on the right appears with the bar indicating current exposure settings.

Aperture value: f2.8 to f8.0  
 Shutter speed: 15 to 1/2000 sec.  
 (At f8.0, up to 1/4000 sec.)



### TIPS

#### To take long exposure (bulb) shots

- 1 Turn the control dial to the left to set the shutter speed to bulb.
- 2 The shutter remains open as long as the shutter button is held down.
  - The maximum bulb length is 120 seconds.
  - You can connect a remote cable (sold separately) with the power battery holder (also sold separately).



Note

- To avoid camera movement, you are recommended to use a tripod when taking pictures requiring a slow shutter speed.

## M mode real display - Displaying the subject on the monitor at close to the real exposure



To make it easier to check the subject when taking pictures in **M** mode using the monitor, the camera adjusts the brightness automatically and displays the subject on the monitor (when set to OFF (factory default setting)). When set to ON, the subject is displayed on the monitor at the appropriate brightness for the selected exposure. You can shoot while checking the real image in advance on the monitor.

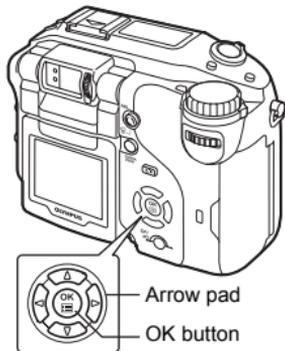
Mode dial



- 1 In the top menu, select **MODE MENU** → **CAMERA** → **M mode REAL** → **ON**, and press **OK**.

"How to use the menus" (P.49)

- Press **OK** again to exit the menu.



Arrow pad  
 OK button

When you use mode, the settings you selected with the menus in My Mode are activated.

Saving the shooting mode or function settings you want to use in advance lets you shoot with your favorite settings straightaway. Choose one of the 8 My Mode settings that you have saved.

## Mode dial

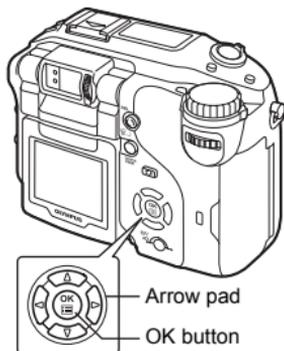


- 1 In the top menu, select **MODE MENU** → **CAMERA** → **MY MODE** → **MY MODE 1** to **MY MODE 8**, and press .

"How to use the menus" (P.49)

- Press again to exit the menu.
- Only the settings in MY MODE 1 have already been saved. You cannot select MY MODE 2 to MY MODE 8 if no settings have been saved in them.

"MY MODE SETUP – Setting a function in My Mode" (P.170)



# Focusing applications

## AF MODE - Changing the focus range

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

- iESP** Even when the subject is not in the center of the screen, focusing is possible. The AF target mark moves to the position on the monitor that is in focus.
- SPOT** Focus selection is based on the subject within the AF target mark.

Mode dial



- 1 Press while holding down **AF/**/MF.

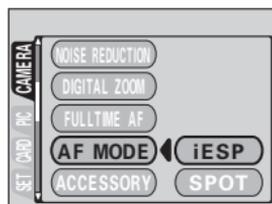
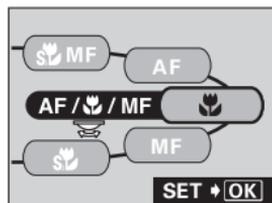
- The AF MODE menu is displayed.
- In MF or MF mode, the menu is not displayed when is pressed.

AF / / MF AF/Macro/MF button



- 2 Press to select iESP or SPOT, then press .

- Press again to exit the menu.



5

Advanced shooting

**TIPS****AF MODE can also be set from the MODE MENU.**

- In the top menu, select MODE MENU → CAMERA → AF MODE  
→ iESP or SPOT, and press .  
 “How to use the menus” (P.49)



Note

- In mode, the AF MODE is fixed to iESP. The setting cannot be changed.

## FULLTIME AF - A reliable time-saving way to focus

Focusing is performed repeatedly without having to press the shutter button halfway. When ON is selected, the focusing time is reduced, letting you take successive snapshots.

Mode dial



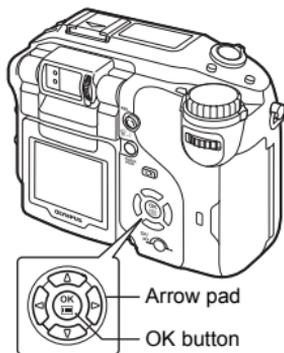
5

Advanced shooting

- 1 In the top menu, select **MODE MENU** → **CAMERA** → **FULLTIME AF** → **ON**, and press .

“How to use the menus” (P.49)

- The subject is displayed on the monitor.
- If the monitor is turned off, FULLTIME AF does not function.
- Press again to exit the menu.



Arrow pad

OK button



Note

- In mode, FULLTIME AF does not operate when (movie) is set to ON.
- Battery consumption increases when FULLTIME AF is used.

## Changing the position of the AF target mark

This function lets you select the area you want to focus on by changing the position of the AF target mark.

Mode dial



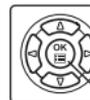
### 1 Set the AF mode to SPOT.

Press "AF MODE - Changing the focus range" (P.91)

AF / / MF AF/Macro/MF button



Control dial

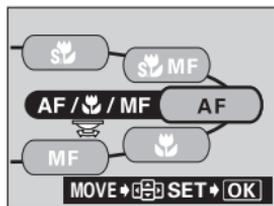


Arrow pad

OK button

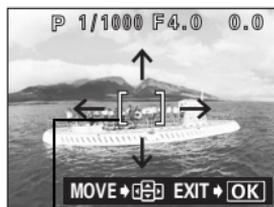
### 2 Hold down AF//MF and use the arrow pad to move the AF target mark to the area you want to focus on.

- In MF or MF mode, the AF target mark does not move when the arrow pad is pressed.



### 3 Take the picture.

- To restore the AF target mark to its original position (in the center), press while holding down AF//MF on the right screen.



AF target mark

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Advanced shooting



Note

- Turning the camera off or changing the shooting mode will return the AF target to the center position.
- AF target mark cannot be moved when the digital zoom is on.

## AF illuminator

The AF illuminator allows the auto focus to focus on dark subjects. When the shutter button is pressed halfway, the AF illuminator fires automatically, lighting up the subject. Factory default setting is ON. To turn the AF illuminator off, follow the procedure below.

Mode dial



- 1** In the top menu, select **MODE MENU** → **SETUP** → **AF ILLUMINATOR** → **OFF**, and press



“How to use the menus” (P.49)

- Press again to exit the menu.



Arrow pad

OK button



AF illuminator



Note

- Even when the AF illuminator is lit, the auto focus may still not be able to focus properly on subject within 80 cm (2.6 ft.) of the camera.

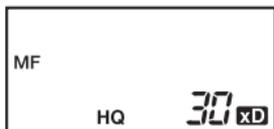
## Manual focus

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



### 1 Turn the control dial while holding down AF/MF and select MF.

- MF is displayed on the control panel.



AF / MF / MF AF/Macro/MF button



- The subject is displayed on the monitor when you release your finger from the AF/MF button.

### 2 Press to set the focus.

- During operation, the area in the middle is enlarged. This lets you check whether the focus is correct.
- The distance indicator on the left of the monitor is for reference only.
- When the indicator is moved to less than 0.8 m (2.6 ft.), the display automatically switches to the 20 cm (8") to 80 cm (2.6 ft.) display.



### 3 Take the picture.

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



#### TIPS

##### How to shoot while keeping the same focus distance

→ Decide the focus in Step 2, then press . The focus is locked and MF appears in red on the monitor.

##### To fix the focus at the same distance as the focus lock position

- 1 Press to turn on the LCD monitor when it is off.
- 2 Position the AF target mark on a subject at the desired distance and press the shutter button halfway.
- 3 Keeping the shutter button half-pressed, press **AF/****/MF**.
  - The distance is displayed on the monitor.
  - MF is selected and the focus is locked at the same distance as when you performed focus lock.
  - Set to AF to return to auto focus.

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

→ Adjust the cursor position by pressing while watching the monitor.

##### How to take pictures very close to the subject

→ In super macro MF mode, pictures as close as 3 cm from the subject can be taken with manual focus. Turn the control dial while holding down **AF/****/MF** and select MF. “Super macro shooting” (P.104)



Note

- When the digital zoom is set to x 2.5 or more, the area you are focusing on is not enlarged.
- If the zoom lever is pressed after performing manual focus, the saved focus distance may be changed. Perform setting again.



There are four ways of measuring the brightness of a subject. Select the way best suited to your purpose.

**Digital ESP metering** Meters the center of the subject and the surrounding area separately.

**Spot metering** Exposure is determined by metering within the metering target area. In this mode, a subject can be shot with optimal exposure regardless of the background light. P.97

**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.

P.99

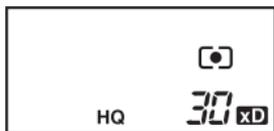
**Center-weighted metering** Meters the brightness over a wide area with emphasis on the center of the screen. This method is used when you do not want to let the brightness of the surrounding area affect the picture. P.97

## Spot metering / Center-weighted metering – Selecting the metering area



1 Turn the control dial while holding down and select or .

- or is displayed on the control panel.

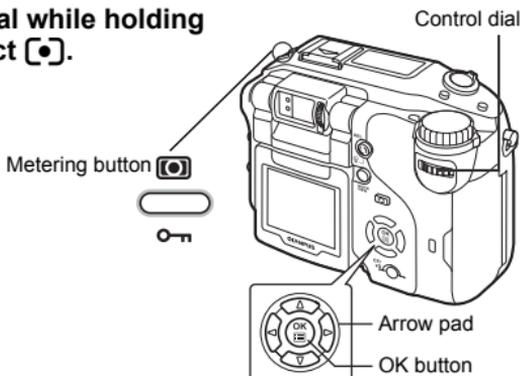


## Changing the position of the metering target mark

When the metering mode is set to SPOT, you can select the metering area by moving the position of the target mark.



- 1 Turn the control dial while holding down and select .

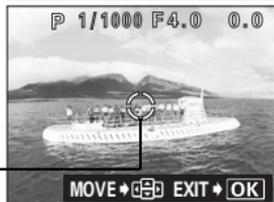
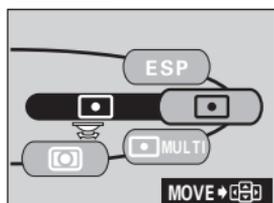


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Advanced shooting

- 2 Hold down and use the arrow pad to move the metering target mark to the area you want to meter.

Metering target mark



- 3 Take the picture.

- To restore the metering target mark to its original position (in the center), press while holding down in Step 2.





Note

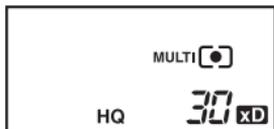
- Turning the camera off or changing the shooting mode will return the metering target to the center position.

## Multi-metering – Metering the exposure at more than one point



- 1 Turn the control dial while holding down and select MULTI .

- MULTI is displayed on the control panel.



Metering button



- 2 Position the AF target mark on the area you want to meter and press the AEL (AE Lock) button. The brightness is metered at up to 8 different points.

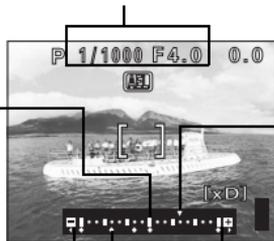
- The multi-metering bar appears on the monitor.
- Brightness meter readings are ignored after the 8th reading.
- To perform metering again, press the AEL button for more than 1 second to display . Press the AEL button again to cancel the metering values.



Ex: When metering 2 points (pressing the AEL button twice)

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

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



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

The reading when the AEL button was pressed.  $\diamond$  indicates the number of times you have pressed the button.  $\diamond$  indicates the difference between the metered and average readings.

When  $\diamond$  moves more than  $\pm 3$  from the center of the bar (the average reading), red  $\triangleleft \triangleright$  appear.



#### TIPS

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

→ After metering in Step 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 the AE memory.

**The multi-metering exposure is canceled.**

→ If you operate any of the buttons or the mode dial after metering in Step 2, the multi-metering exposure is canceled.

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.

For example, if the sun is in the frame and shooting with automatic exposure results in a dark subject, recompose your shot so that the sun is not in the frame. Then press the AEL button to lock the metered value (exposure) temporarily. Next, compose your shot again with the sun in the frame and take the picture.



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

- The metered value is saved.
- If you want to lock a different exposure, press the AEL button again to cancel AE lock. Each time you press the AEL button, AE lock is engaged and canceled repeatedly.

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

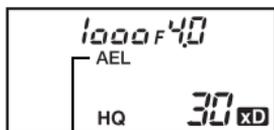
- The green lamp lights.

AEL button

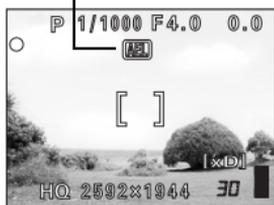


### 3 Press the shutter button fully.

- AE lock is automatically canceled after one shot.



During AE lock, AEL is displayed.



#### TIPS

#### To save the locked multi-metering exposure after shooting (AE memory)

- After setting AE lock in Step 1, or after pressing the shutter button halfway in Step 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 the 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 had emerged from sleep mode or the power was turned off.



Note

- AE lock is not available when multi-metering is enabled. Set the metering method to ESP, or . "Metering" (P.97)
- AE lock is not available when a menu is displayed on the screen. "How to use the menus" (P.49)

# Macro mode shooting



Focusing is usually slow when you get close to a subject (20 cm to 80 cm) (0.7 ft. to 2.6 ft.). However, in the  mode focusing is performed quickly. When the optical zoom is at the maximum position and you are as close as 20 cm (0.7ft.) to your subject, you can fill the entire frame with a business card-sized subject.



Normal shooting



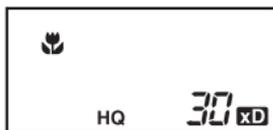
With the macro mode

Mode dial

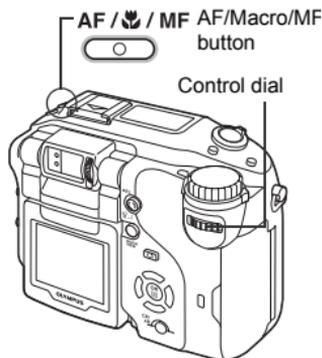


- 1 Turn the control dial while holding down AF//MF and select .

-  is displayed on the control panel.



- The subject is displayed on the monitor when you release your finger from the AF//MF button.



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Advanced shooting



Note

- If you are close to a subject, the picture in the viewfinder is different from the area that the camera actually records. For macro mode shooting, use the monitor.
- If you use the flash in macro shooting, shadows may be noticeable and the correct exposure may not be achieved.

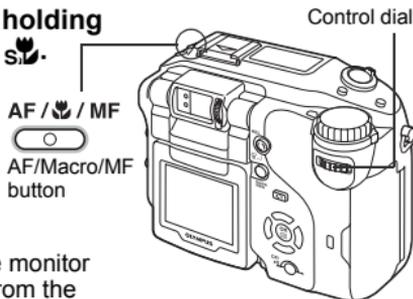
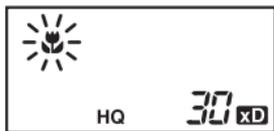
This mode lets you shoot from as close as 3 cm (1.2") to your subject. Subjects measuring up to approximately 2.1 cm × 2.8 cm (0.06" × 0.09") can be captured on the monitor.

In the mode, normal shooting is also possible, but the zoom cannot be used.



## 1 Turn the control dial while holding down AF//MF and select .

- blinks on the control panel.



- The subject is displayed on the monitor when you release your finger from the AF//MF button.
- The zoom moves to the prescribed position and is fixed.

## 5

### Advanced shooting

## ● Super macro MF

When taking pictures close to the subject, shadows may become noticeable, and the auto focus may not be able to maintain correct focus. Set the camera to super macro MF and use manual focus.

## 1 Turn the control dial while holding down AF//MF and select MF (super macro MF).

- MF blinks on the control panel.

## 2 When you release your finger from the AF//MF button, the subject and the distance indicator for manual focus are displayed on the monitor.

## 3 Press to adjust the focus.

- Pressing locks the focus position and appears in red on the monitor.



Note

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

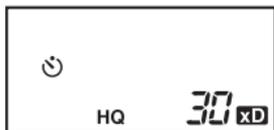


This function lets you take pictures using the self-timer. Fix the camera securely on a tripod for self-timer shooting. This function is useful for taking pictures where you want to be included in the photograph.



## 1 Turn the control dial while holding down and select .

- is displayed on the control panel.



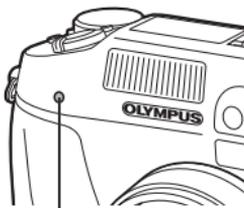
Self-timer/Remote control button



Control dial

## 2 Press the shutter button fully to start self-timer shooting.

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



Self-timer/  
Remote control lamp



Note

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

# Remote control shooting



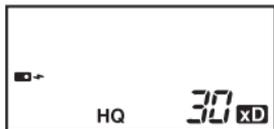
Shooting is possible using the remote control device provided with the camera. This is useful when you want to take a picture with yourself in it, or a night scene, without touching the camera.

Mode dial



- 1 Mount the camera on a tripod or place it on a stable, flat surface.
- 2 Hold down and turn the control dial to select .

- is displayed on the control panel.



Self-timer/Remote control button

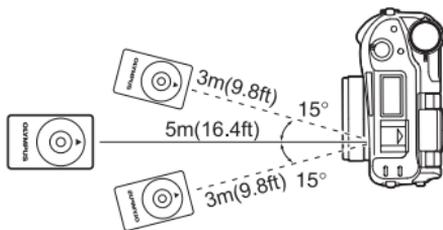


Control dial

- 3 Point the remote control device at the remote control receiver on the camera.

Self-timer/Remote control lamp

Remote control receiver



- 4 Press the shutter button on the remote control device.

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

**TIPS**

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

- 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 battery in the remote control device is running low. Replace with a new battery.  “How to replace the battery (CR2025) of the remote control device” (P.245)

**How to cancel the remote control mode.**

- The remote control mode is not canceled automatically after shooting. Perform Step 2 and set the mode to off (No indication).



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.

# Sequential shooting

There are 4 sequential shooting modes: high speed sequential shooting, sequential shooting, AF sequential shooting and auto bracketing. Sequential shooting cannot be performed when the record mode is set to TIFF.

## Drive mode

-  Shoots one frame at a time when the shutter button is pressed. (Normal shooting mode, single-frame shooting)
- HI**  Pictures can be taken at a faster speed than normal sequential shooting. The sequential shooting speed varies depending on the record mode setting.  
4 frames at 3.3 frames/sec. (3 frames in SHQ ENLARGE SIZE mode)
-  Focus, exposure and white balance are locked at the first frame. Approx. 10 frames at 1.7 frames/sec. (in HQ mode)
- AF**  Adjusts the focus 1 frame at a time. The AF sequential shooting speed is slower than for normal sequential shooting.
- BKT**  "Auto bracketing" (P.109)

## High speed sequential shooting, sequential shooting and AF sequential shooting

### 5

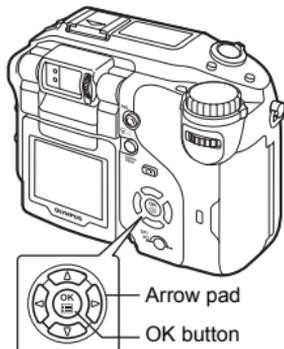
### Advanced shooting

#### Mode dial



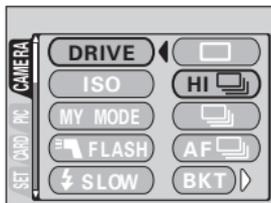
- 1 In the top menu, select MODE MENU → CAMERA → DRIVE → HI ,  or AF , and press .**  
 "How to use the menu" (P.49)

- Press  again to exit the menu.



## 2 Take the picture.

- The camera will take pictures in sequence until you release the button.
- You are recommended to use the viewfinder for sequential shooting. During sequential shooting, the subject does not appear on the monitor.



## Auto bracketing

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 auto bracketing is set, the exposure is changed automatically for each frame while the shutter button is pressed. 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

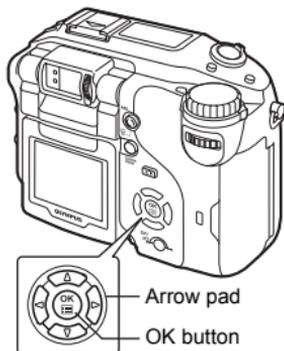


+1.0



- 1** In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** → **BKT**, and press .

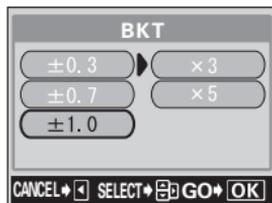
 "How to use the menus" (P.49)



- 2** Select the exposure. Press   to select  $\pm 0.3$ ,  $\pm 0.7$  or  $\pm 1.0$ , then press .

- When the exposure adjustment is set to 1/2EV steps, select from  $\pm 0.5$ ,  $\pm 1.0$  and  $\pm 1.5$ .

 "Exposure steps – Selecting the adjustment increments" (P.174)



### 3 Select the number of pictures. Press to select x3 or x5, then press .

- In some combinations of picture size and record mode, only x3 is available.
- Press  repeatedly until the menu disappears.

### 4 Take the picture.

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



Note

- Sequential shooting (**HI** , , **AF** , **BKT**) is not possible in the following situations:
  - When the record mode is set to TIFF.
  - When NOISE REDUCTION is set to ON.
-  and **AF**  are not available when the record mode is set to RAW.
- In sequential shooting mode (**HI** , , **AF** , **BKT**), the built-in flash does not fire. The external flash does not fire in **BKT** mode.
- Auto bracket shooting is not available in **M** mode.
- Since the shutter speed is set to 1/30 sec.max. except in **S** and **M** mode, exposure is decreased when shooting a dark subject to prevent camera movement.
- For auto bracketing in modes other than **S** mode, shooting is automatically set to 1/30 sec. if the shutter speed was other than 1/30 sec. for 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.
- In Auto bracket shooting, if available space on the card does not exceed the number of set pictures, the next picture may not be taken.

# Panorama shooting

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

Mode dial



## 1 In the top menu, select **MODE MENU** → **CAMERA** → **PANORAMA** and press .

 "How to use the menus" (P.49)

- The PANORAMA mode is set. The subject is displayed on the monitor.

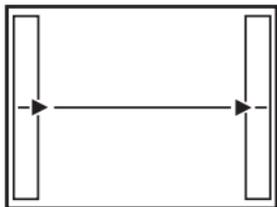


Arrow pad

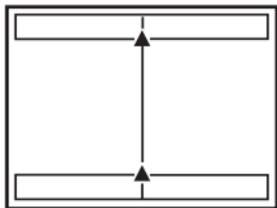
OK button

## 2 On the monitor, use the arrow pad to choose the direction you want the pictures connected.

-  : Connects the pictures from left to right.
-  : Connects the pictures from right to left.
-  : Connects the pictures from bottom to top.
-  : Connects the pictures from top to bottom.



Connects pictures from left to right.



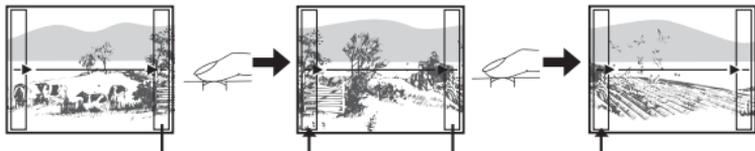
Connects pictures from bottom to top.

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Advanced shooting

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

- 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.



Keeping the area in the frame at the edge of the screen in mind, position the camera so that the same area appears in the frame for the next picture. Compose the picture so that the section that appeared at the right edge of the previous picture (or the left edge if you are connecting pictures from right to left) appears at the left edge of the next picture (or the right edge if you are connecting pictures from right to left).

- When you have taken 10 pictures, a warning mark appears.



### 4 Press to finish panorama shooting.

- The frame on the screen disappears and the camera returns to the normal shooting mode.



Note

- The panorama mode is only available with Olympus CAMEDIA-brand cards.
- During panorama shooting, the flash, sequential shooting (**HI** , , **AF** , **BKT**), program shift and frame assist shooting are not available.
- Images are saved in JPEG format when panorama shooting is done in the TIFF mode. The size of the image does not change.
- Panorama shooting is not available when the Record mode is set to RAW.
- If the mode dial is operated during panorama shooting, the camera cancels the panorama mode and returns to normal shooting.
- The camera itself cannot connect panorama pictures. The CAMEDIA Master software is necessary to connect the pictures.

# Taking 2 IN 1 pictures

2 IN 1

This function allows you to combine two pictures taken in succession and store them as a single picture. You can combine two different subjects in one picture.



Picture when played back

Mode dial



## 1 In the top menu, select **MODE MENU** → **CAMERA** → **2 IN 1** and press

"How to use the menus" (P.49)

- The 2 IN 1 picture mode is set. The monitor turns on automatically.

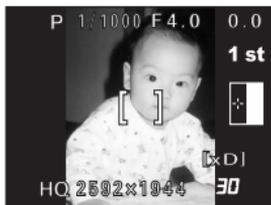


Arrow pad

OK button

## 2 Take the first shot while observing your subject on the monitor.

- The 2 IN 1 picture mode is displayed on the monitor.



## 3 Take the second shot.

- The subject will be positioned on the right in the combined picture.
- The **BUSY** bar is displayed during editing. After the image is saved, the camera returns to the **MODE MENU**.



Picture when shooting

5

Advanced shooting



Note

- During 2 IN 1 picture shooting, panorama shooting, sequential shooting (HI , , **AF** , **BKT**), program shift and frame assist shooting are not available.
- You cannot use 2 IN 1 picture when the record mode is set to RAW.
- To cancel the 2 IN 1 picture mode after the first shot has been taken, press . The first shot will not be saved.
- Operating the mode dial will exit 2 IN 1 picture mode.
- If the camera enters sleep mode after the first picture has been taken, 2 IN 1 picture mode will be canceled.

## FRAME ASSIST shooting



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This function displays guidelines on the monitor that are useful for composing photos well.

**FRAME ASSIST** Vertical and horizontal lines are displayed. Use the lines as a guide for composing the picture.

**ON** A silhouette is displayed as a guide. Select the suited type of guidelines for your purpose.

Mode dial



- 1 In the top menu, select **MODE MENU** → **CAMERA** →  → **FRAME ASSIST** or **ON**.

 "How to use the menus" (P.49)

- ON is not available in      modes.



Arrow pad

OK button

## 2 When FRAME ASSIST is selected, press .

- Press  again to exit the menu.
- The guidelines are displayed on the monitor.



When FRAME ASSIST is selected

When ON is selected, press .

 Go to Step 3.

- The guidelines are displayed on the monitor.



When ON is selected

## 3 Press to select the guidelines, then take the picture.

- Compose the picture with the monitor turned towards you.
- To quit guideline shooting, press  to display the menu. Press  again to close the menu.



# 5

## Advanced shooting



### TIPS

- You can display the guidelines in the playback mode.  
 "FRAME ASSIST display – Displaying guidelines on the monitor" (P.183)



Note

- The guidelines do not appear on the resulting picture.

# FUNCTION - Adding special effects to pictures

This setting lets you add special effects to pictures.

- BLACK & WHITE** Takes pictures in black and white.  
**SEPIA** Gives pictures a sepia tone.  
**WHITE BOARD** Pictures are in black and white, with black letters on a white background emphasized to make them easier to read.  
**BLACK BOARD** Same as WHITE BOARD, but with white letters on a black background.

Mode dial



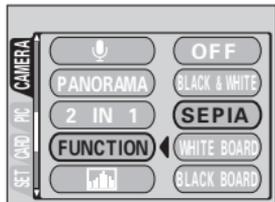
- 1** In the top menu, select **MODE MENU** → **CAMERA** → **FUNCTION**, then select a mode and press .  
 "How to use the menus" (P.49)

- WHITE BOARD and BLACK BOARD are not available in mode.
- Press again to exit the menu.



Arrow pad

OK button



## TIPS

Letters do not show clearly with **WHITE BOARD** or **BLACK BOARD**.

→ Use exposure compensation.

"Exposure compensation" (P.126)



Note

- When WHITE/BLACK BOARD is selected, the flash is automatically set to off.
- WB, and SATURATION cannot be used in Function shooting.

# Recording sound with still pictures

This function lets you record sound when taking a still picture. 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.

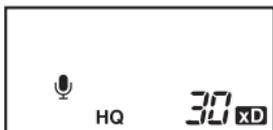
Mode dial



- 1 In the top menu, select **MODE MENU** → **CAMERA** →  → **ON**, and press .

 “How to use the menus” (P.49)

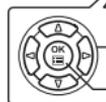
- Press  again to exit the menu.
-  lights on the control panel.



- 2 When recording starts, turn the camera microphone towards the source of the sound you want to record.

- The **BUSY** bar is displayed during recording.
- The green lamp blinks during recording and  blinks on the control panel.

Shutter button



Arrow pad

OK button



Microphone

## TIPS



-  appears on all still pictures and movies that have recorded sound. During playback, sound is output from the speaker. The volume can be adjusted.  “Playback volume – Adjusting the sound volume” (P.187)
- Sound can be added later to still pictures. Recorded sound can also be changed.  “Recording sound” (P.153)



Note

- If the camera is more than 1 m (3.3 ft.) away from the source of the sound, sound may not be recorded clearly.
- It is not possible to take another picture during sound recording.
- Sound recording is not possible in the following cases:  
When the record mode is set to TIFF, during sequential shooting (HI , , **AF** , **BKT**), Panorama shooting, two-in-one picture shooting
- Sound recording may also pick up camera noises, such as button operations, shutter movement, etc.

## Recording sound with movies



Sound can be recorded while shooting a movie.

### 5

### Advanced shooting

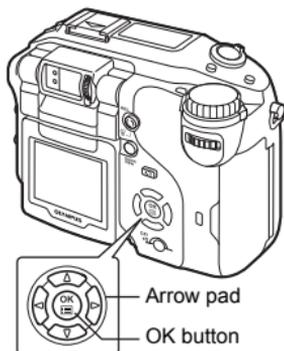
#### Mode dial



#### 1 In the top menu, select → ON, and press .

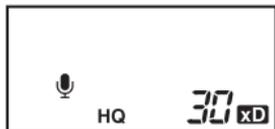
 "How to use the menus" (P.49)

-  lights on the control panel.



#### 2 Recording starts at the same time as shooting.

- During recording,  blinks on the control panel.



Note

- When  is set to ON, the focus and zoom are locked during movie recording. 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.

# Using the optional accessories

The appropriate setting must be made in the MODE MENU when an optional conversion lens or underwater housing is attached to the camera.

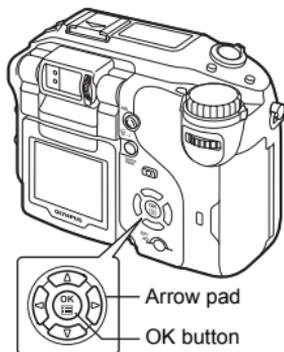
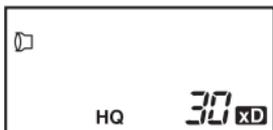


- 1 In the top menu, select **MODE MENU** → **CAMERA** → **ACCESSORY** → (conversion lens) or (underwater housing), and press



"How to use the menus" (P.49)

- Press again to exit the menu.
- is displayed on the control panel.



Note

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

# 6 Adjusting the image quality and exposure

## Record mode



You can select a record mode in which to take pictures or shoot movies. Choose the best record mode for your purpose (printing, editing on a PC, website editing, etc.). For resolutions of the different record modes and number of pictures storable on the card, refer to the table on page 122.

### Normal image mode

Image becomes clearer ←

Application	Compression		Uncompressed	Low compression	High compression
	Resolution				
Select for the print size	2592 × 1944	TIFF		SHQ	SHQ
	2288 × 1712			SQ1 HIGH	SQ1 NORMAL
	2048 × 1536				
	1600 × 1200				
	1280 × 960				
1024 × 768					
For small sized print and website	640 × 480			SQ2 HIGH	SQ2 NORMAL

Number of pixels increases ↑

## 6

Adjusting the image quality and exposure

### ● Resolution

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. However, higher resolutions make the file size (amount of data) larger, so the number of pictures that can be saved will be fewer.

### ● Compression

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

### ● Resolution and picture size on a computer screen

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 in 1024 × 768 resolution is the same size as the screen if you set the picture to 1× when the monitor setting is 1024 × 768. However, if the monitor setting is over 1024 × 768 (such as 1280 × 1024), the picture only takes up part of the screen.

## Special image mode

Record mode	Feature	Resolution
RAW	As the name suggests, the data is "raw", not having been subjected to image processing.	2592×1944
ENLARGE SIZE (SHQ, HQ)	Enlarges the picture size. This mode is useful when you want to make large prints.	3264×2448
3:2 (TIFF, SHQ, HQ)	This mode is useful when having prints made at a photo lab.	2592×1728

## RAW Data

As its name suggests, RAW data is unprocessed image data in its original state to which white balance, sharpness, contrast, color conversion and other processes have not been applied. CAMEDIA Master software is required to display RAW data as images. Plug-in software for playback by Photoshop can also be used. (Available for download from the Olympus home page.) You cannot display RAW data using ordinary software or make print reservations. Pictures taken in the RAW data format can be edited on this camera.  "RAW editing" (P.157)

## ENLARGE SIZE

When ENLARGE SIZE is selected, the actual 5.1 million pixels used by this camera can be increased to the equivalent of approx. 8 million pixels (3264 × 2448). This allows you to make quality prints in larger sizes, such as A3 (297 mm × 420 mm/11.7" × 16.5"). However, file sizes also become larger. It is not available in  mode.

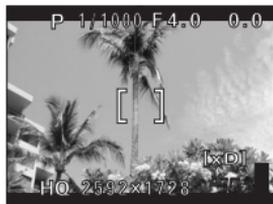


Note

If the SHQ record mode is set to ENLARGE SIZE, the maximum number of pictures in high speed sequential shooting mode is 3.

## 3:2 Resolution

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. **3:2** is not available in  mode. The monitor turns on automatically when **3:2** is selected. Check the shooting range on the monitor before taking the picture.



Monitor indications when **3:2** is set

## ● Record Modes and the number of remaining pictures

The number of remaining pictures can be estimated from dividing the capacity of the card by the file size. When a card is inserted in the camera, it is displayed on the control panel or the monitor.

### Still Picture Record Modes

Record mode	Resolution		Com-pression	File format	Number of remaining pictures		File size (MB)
					32MB		
					With sound	Without sound	
RAW	2592 × 1944		Uncompressed	ORF	4	4	Approx. 7.7
TIFF	2592 × 1944		Uncompressed	TIFF	–	2	Approx. 15.2
	<b>3:2</b>	2592 × 1728			–	2	Approx. 13.5
	2288 × 1712				–	2	Approx. 11.8
	2048 × 1536				–	3	Approx. 9.5
	1600 × 1200				–	5	Approx. 5.8
	1280 × 960				–	8	Approx. 3.8
	1024 × 768				–	13	Approx. 2.4
SHQ	640 × 480		Low compression	JPEG	–	33	Approx. 1.0
	2592 × 1944				8	8	Approx. 3.8
	<b>3:2</b>	2592 × 1728			9	9	Approx. 3.4
HQ	<b>ENLARGE SIZE</b> 3264 × 2448		High compression	JPEG	7	7	Approx. 4.6
	2592 × 1944				24	25	Approx. 1.3
	<b>3:2</b>	2592 × 1728			27	28	Approx. 1.2
SQ1	<b>ENLARGE SIZE</b> 3264 × 2448		*	JPEG	15	16	Approx. 2.1
	2288 × 1712	HIGH			12	12	Approx. 2.6
		NORMAL			31	32	Approx. 1.0
	2048 × 1536	HIGH			14	14	Approx. 2.3
		NORMAL			39	40	Approx. 0.9
	1600 × 1200	HIGH			22	22	Approx. 1.5
NORMAL		60	64	Approx. 0.5			
SQ2	1280 × 960	HIGH	33	34	Approx. 1.0		
		NORMAL	90	99	Approx. 0.4		
	1024 × 768	HIGH	51	53	Approx. 0.6		
		NORMAL	132	153	Approx. 0.3		
	640 × 480	HIGH	117	132	Approx. 0.3		
		NORMAL	248	331	Approx. 0.1		

\*HIGH uses low compression/NORMAL uses high compression

## Movie Record Modes

Record mode	Resolution	Seconds of remaining recording time (sec.)	
		32MB	
		With sound	Without sound
SHQ	640 × 480 (15 frames/sec.)	34	35
HQ	320 × 240 (15 frames/sec.)	93	96
SQ	160 × 120 (15 frames/sec.)	374	424



Note

- Number of remaining pictures listed in the table is approximate.
- The number of remaining 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 displayed on the control panel or the monitor 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 Movie Record Modes table.

## Selecting a record mode

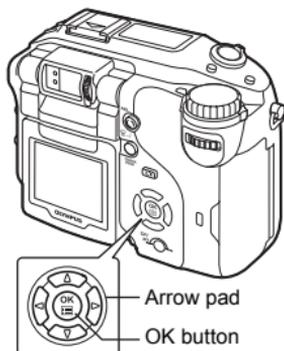


- In the top menu, select **MODE MENU**  
→ **PICTURE** → and press .

"How to use the menus" (P.49)

- If is displayed on the top menu as a shortcut menu, press the arrow pad in the same direction as the arrow shown next to .

"Shortcut" (P.167)



Arrow pad

OK button

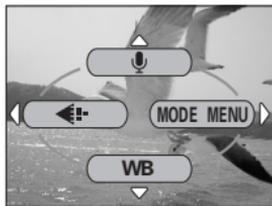
## Mode dial



- 1 In the top menu, press to select

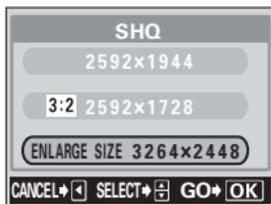


"How to use the menus" (P.49)



- 2 Press to select the desired record mode.  
For still pictures, choose one of the following record modes: RAW, TIFF, SHQ, HQ, SQ1, SQ2.  
For movies, choose SHQ, HQ or SQ record mode.  
 Go to Step 4.

- 3 If you have selected TIFF, SHQ, HQ, SQ1 or SQ2 for the still picture record mode, press to display the screen for selecting the resolution, then choose the resolution by pressing .



If you have selected SQ1 or SQ2, press after choosing the resolution, then choose HIGH or NORMAL by pressing .

- 4 Press .  
• Press repeatedly until the menu closes.

# 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 noise into the resulting image, which may give them 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 shoot in dark places.

### Mode dial



## 1 In the top menu, select MODE MENU

→ **CAMERA** → **ISO**, then press to choose the most suitable ISO sensitivity and press .

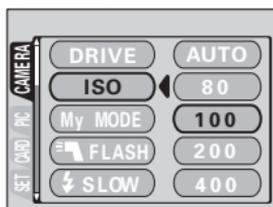
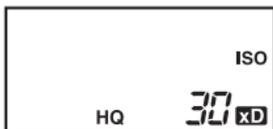
"How to use the menus" (P.49)

- AUTO is not available in **A**, **S** or **M** mode.
- Press again to exit the menu.
- When ISO sensitivity is not set to auto, ISO is displayed on the control panel.



Arrow pad

OK button



Note

- Higher ISO settings produce more electrical noise.
- When ISO is set to AUTO and you are shooting in dark conditions without a flash, the sensitivity automatically increases, otherwise the shutter speed will be reduced, possibly resulting in camera movement and blurred images.
- If the subject is too far away for the flash illumination to reach when ISO is set to AUTO, the sensitivity is automatically increased.
- When using slow synchronization in the **P**, **A** or **S** mode, the slowest available shutter speed varies depending on the ISO setting.



In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually. You can adjust the exposure by selecting the exposure compensation value. After adjusting the exposure, you can check the picture on the monitor.

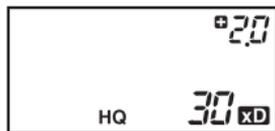
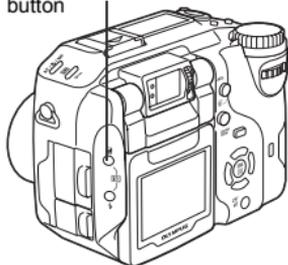
Mode dial



## 1 Turn the control dial while holding down .

- Adjust toward + Turn to the right to adjust up to +2.0.
- Adjust toward - Turn to the left to adjust up to -2.0.
- The exposure compensation can be set in 1/3EV steps or 1/2EV steps.  
 "Exposure steps – Selecting the adjustment increments" (P.174)
- The exposure compensation value is displayed on the control panel.

Control dial  
 Exposure compensation button



-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.
- Pressing when the monitor is turned on and HISTOGRAM is set to ON displays the histogram on the monitor.
- If you press while pressing , the monitor jumps to the menu for changing the HISTOGRAM setting. “Histogram display – Displaying the luminance distribution of still pictures” (P.176)
- You can change the position of the histogram target mark. “Changing the position of the histogram target mark” (P.178)
- The histogram cannot be displayed in **M** mode.



Note

- You can set the aperture by turning the control dial while holding down in **M** mode. “Manual shooting” (P.88)
- 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.

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.

Mode dial

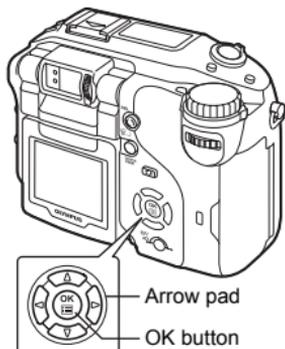
P A S M      

- In the top menu, select **MODE MENU** → **PICTURE** → **WB**, and press .

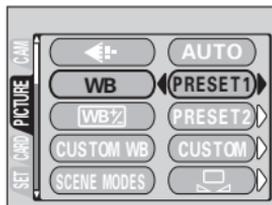
 “How to use the menus” (P.49)

- If WB is displayed on the top menu as a shortcut menu, press the arrow pad in the same direction as the arrow shown next to WB.

 “Shortcut” (P.167)



- Press  to select the white balance best suited to the shooting conditions. Choose from **AUTO**, **PRESET1**, **PRESET2**, **CUSTOM** and  (**one-touch**).



- AUTO** Press . Press  again to exit the menu.
- PRESET1** Press  to display the next selection screen.  
 “Preset 1 white balance” (P.129)
- PRESET2** Press  to display the next selection screen.  
 “Preset 2 white balance” (P.129)
- CUSTOM** Press  to display the next selection screen.  
 “Custom white balance” (P.130)
-  Press  to display the next selection screen.  
 “One-touch white balance” (P.131)

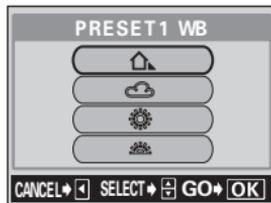
## Auto white balance

Automatically adjusts the white balance for any light source.

## Preset 1 white balance

Select a white balance setting according to the type of light when shooting outdoors. Press to select one of the following settings, then press . To quit settings, press repeatedly until the menu closes.

- For shooting in the shade.
- For shooting on a cloudy day.
- For shooting on a sunny day.
- For shooting in evening sunlight.

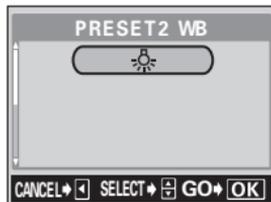
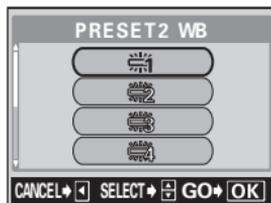


## Preset 2 white balance

Select a white balance setting according to the type of light when shooting indoors. Press to select one of the following settings, then press . To quit settings, press repeatedly until the menu closes.

- For shooting under a daylight fluorescent lamp (6700K)\*. This type of lamp is used mainly in homes.
- For shooting under a neutral white fluorescent lamp (5,000K)\*. This type of lamp is generally used in desk lamps, etc.
- For shooting under a cool white fluorescent lamp (4,200K)\*. This type of lamp is generally used in offices, etc.
- For shooting under a white fluorescent lamp (3,500K)\*.
- For shooting under a tungsten light (3000K)\*.

\* The color temperature values (K) are approximate. They are not an accurate indication of color.



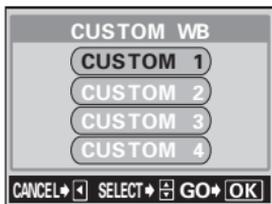
## Custom white balance

This function lets you select a white balance saved in the CUSTOM WB settings. Press

to select CUSTOM 1, CUSTOM 2, CUSTOM 3 or CUSTOM 4, then press .

Press again to exit the menu.

If no custom white balance has been saved, the item is displayed in gray and cannot be selected.



### ● Saving a custom white balance

You can register the current white balance setting and white balance adjustment value in CUSTOM 1 to CUSTOM 4 and select them as white balance custom menus.

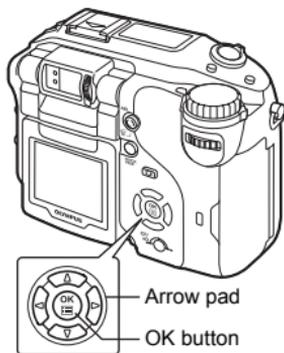
Mode dial



- 1 In the top menu, select **MODE MENU** → **PICTURE** → **CUSTOM WB** → **CUSTOM 1, CUSTOM 2, CUSTOM 3 or CUSTOM 4**, and press .

"How to use the menus" (P.49)

- The current white balance setting and white balance adjustment value are saved as custom white balance.
- If a custom white balance is already saved in the selected number, a confirmation screen appears. To register the new settings, select **RESET** and press .
- Press again to exit the menu.



Arrow pad

OK button

## One-touch white balance



This function is useful when you need a more precise white balance than PRESET WB 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.

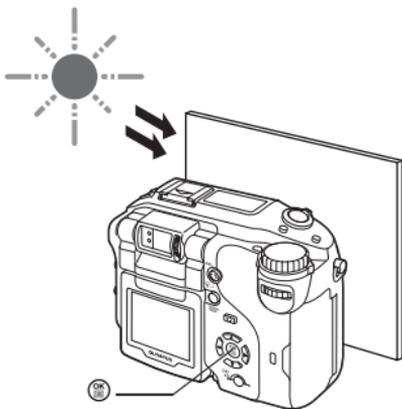
### 1 Display the screen and point the camera at a sheet of white paper.

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



### 2 Press .

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



One-touch white balance

### 3 Press repeatedly until the menu disappears.



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 adjustment



This function lets you make fine changes to the AUTO, PRESET 1, PRESET 2 and white balance settings.

Mode dial



- In the top menu, select **MODE MENU** → **PICTURE** → **WB**, and press .

“How to use the menus” (P.49)

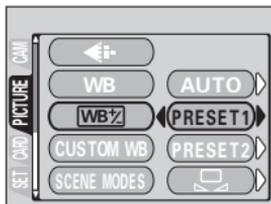


Arrow pad

OK button

- Press to select **AUTO**, **PRESET 1**, **PRESET 2** or , then press .

- The white balance adjustment indicator appears on the screen.



- The color becomes bluer each time you press , and redder each time you press , depending on the original white balance conditions. Press to save your adjustment.

- The white balance can be adjusted 7 increments in both red and blue directions.
- After saving the adjustment, press again to exit the menu.



6

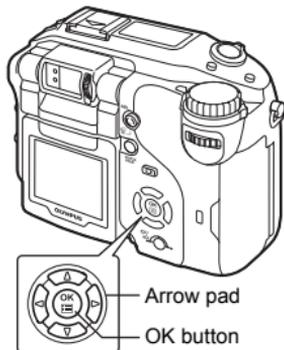
Adjusting the image quality and exposure

This function adjusts the sharpness of the image.



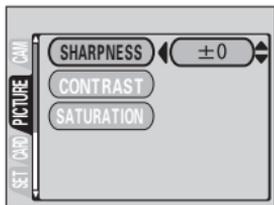
- 1 In the top menu, select **MODE MENU** → **PICTURE** → **SHARPNESS**, and press

"How to use the menus" (P.49)



- 2 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 PC.
- When you have finished setting the sharpness, press . Press again to exit the menu.



Note

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

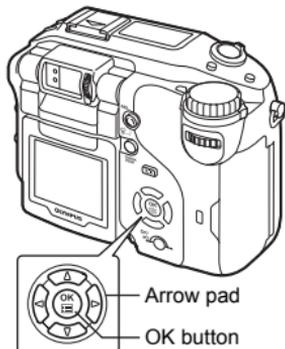


This function adjusts the contrast of the image. For example, you can make images with marked differences in light and shadow softer, and those with less differences more vivid.



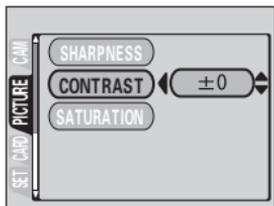
- 1** In the top menu, select **MODE MENU** → **PICTURE** → **CONTRAST**, and press

"How to use the menus" (P.49)



- 2** Press to adjust the contrast between **+5** and **-5**.

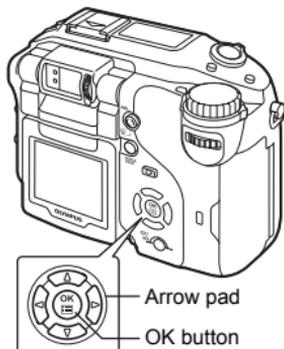
- To increase the contrast (+) :  
Press . The light and dark areas are defined more clearly, making the image look crisper.
- To reduce the contrast (-) :  
Press . The light and dark areas become less defined, giving the image a softer impression. Use this setting when you want to edit images on a PC.
- When you have finished setting the contrast, press . Press again to exit the menu.



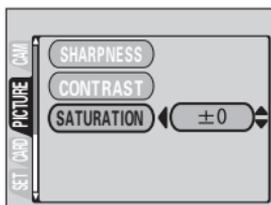
This function adjusts the color depth.



- 1** In the top menu, select **MODE MENU** → **PICTURE** → **SATURATION**, and press .  
 "How to use the menus" (P.49)



- 2** 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.



- When you have finished setting the saturation, press . Press again to exit the menu.

# SCENE MODES

In **P**, **A**, **S**, **M**,  and  modes, the image is processed according to your purpose and the effect you want to achieve. The color reproduction, sharpness, contrast and saturation are adjusted.

Mode dial

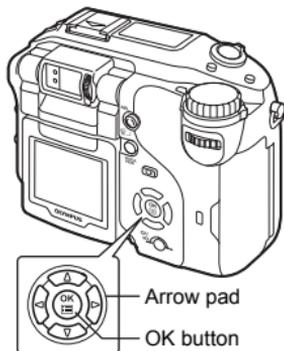
**P A S M**  

- 1 In the top menu, select **MODE MENU** → **PICTURE** → **SCENE MODES**, then choose from **NORMAL**, ,  or , and press



 "How to use the menus" (P.49)

- For ,  and  modes, see "Situation-related modes" (P.61).
- Press  again to exit the menu.



# NOISE REDUCTION

**NR**

6

Adjusting the image quality and exposure

This function reduces the noise that is generated during long exposures. When shooting night scenes, shutter speeds become slower and noise tends to appear on images. When noise reduction is set to ON, the camera automatically reduces noise to produce clearer images. However, shooting time is approximately twice as long as usual. Noise reduction can only be used when the shutter speed is set slower than 1/2 sec.



Noise reduction: OFF



Noise Reduction: ON

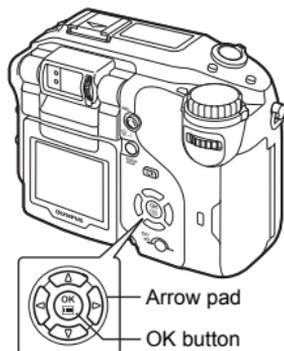
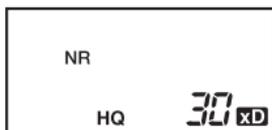
The purpose of these pictures is to illustrate the effects of noise reduction. They are not actual pictures.

Mode dial  P A S M 

- 1 In the top menu, select **MODE MENU** → **CAMERA** → **NOISE REDUCTION** → **ON** or **OFF**, and press .

 "How to use the menus" (P.49)

- Press  again to exit the menu.
- When noise reduction is set to ON, NR is displayed on the control panel.



Note

- When  mode is set, noise reduction is fixed to ON.
- When noise reduction is set to ON, the camera implements noise-reducing processes after each shot. For this reason, shooting time is approximately twice as long as usual. During this time, you cannot continue shooting.
- When noise reduction is set to ON, sequential shooting (**HI** , , **AF** , **BKT**) is not possible.
- This function may not work effectively with some shooting conditions or subjects.
- As the shutter speed is relatively slow, the use of a tripod is recommended.

# 7 Playback

## Viewing still pictures



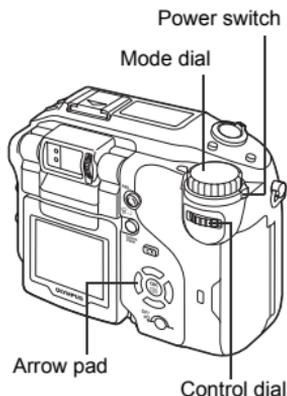
### Mode dial



- 1 Set the mode dial to (playback mode) and turn the camera on.

"Turning the power on/off" (P.33)

- The last picture taken is displayed.  
(Single-frame playback)

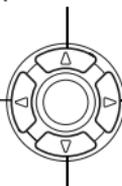


- 2 Use the arrow pad or control dial to play back other pictures.

- Arrow pad

Jumps to the picture 10 frames back.

Displays the previous picture.



Displays the next picture.

Jumps to the picture 10 frames ahead.

- Control dial

Displays the previous picture.



Displays the next picture.



Note

- If no operation is performed for about 3 minutes, the camera automatically enters the sleep mode and the monitor turns off. Press or any button to turn the monitor on.

## QUICK VIEW

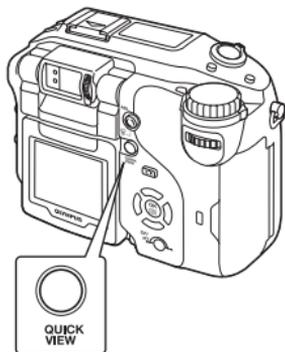
This function lets you play back pictures while the camera is in the shooting mode. This is useful when you want to check shooting results and resume shooting quickly.

Functions available in normal playback mode are also available in Quick View.



### 1 Press the QUICK VIEW button in the shooting mode.

- The camera immediately enters the playback mode and displays the last picture taken. (Single-frame playback)



### 2 Press the QUICK VIEW button again to return to the shooting mode.

- A light press of the shutter button will return the camera to shooting mode.

7

Playback

## Picture rotation



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

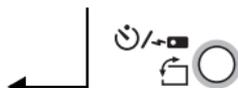
### Mode dial



#### 1 In the single-frame playback mode, press .

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

 Rotation button



7

Playback



Note

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



Pictures displayed on the monitor can be enlarged 1.5, 2, 2.5, 3, 3.5 or 4 times.

## Mode dial



### 1 Select the still picture you want to enlarge.

- You cannot enlarge pictures with .

### 2 Turn the zoom lever toward T (Q).

- The picture is enlarged in steps each time the lever is turned.
- By using the arrow pad while the enlarged picture is displayed, you can shift the picture in the desired direction, enabling you to view a different portion.
- Turning the control dial allows you to view the next or previous frame in the same magnification.
- To return the picture to the original size (1x), turn the zoom lever toward W.



7

Playback



Note

- Pictures cannot be stored in an enlarged state.

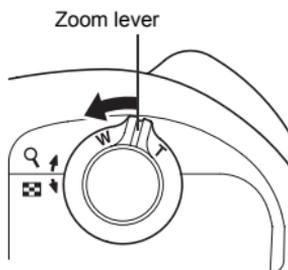


This function lets you show several pictures at the same time on the monitor. The number of pictures shown can be 4, 9 or 16. "Selecting the number of pictures" (P.144)

## Mode dial



- 1 In the single-frame playback mode, turn the zoom lever toward **W** ().



- Use the arrow pad to select the picture.

: Moves to the previous frame.

: Moves to the next frame.

: Moves to the upper frame.

: Moves to the lower frame.



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



- To return to the single-frame playback, turn the zoom lever toward T.

## Selecting the number of pictures

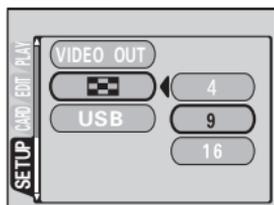
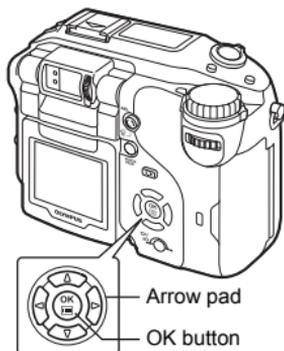
This function lets you select the number of pictures in an index display from 4, 9 and 16.

### Mode dial

- In the top menu, select **MODE MENU** → **SETUP** →  → **4, 9 or 16**, and press .

 "How to use the menus" (P.49)

- Press  again to exit the menu.



# Slideshow

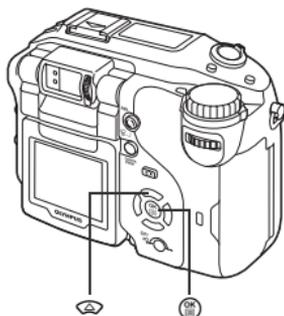


This function displays still pictures stored in the card one after another. Only the first frame of a movie is played back.

## Mode dial



- 1 Select a still picture, then press  to display the top menu.
- 2 Press  to start the slideshow.
- 3 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 a battery is used, the camera will stop the slideshow after about 30 minutes and enter sleep mode.

7

Playback



## Mode dial

- 1 Use the arrow pad or control dial to display the picture with you want to play back.

"Viewing still pictures" (P.139)



- 2 Press .
  - The top menu is displayed.
- 3 Press to select MOVIE PLAY.

- 4 Press to select MOVIE PLAYBACK, then press .
  - The movie is played back. When playback ends, the display automatically returns to the beginning of the movie.
  - You can fast forward/rewind during playback.

: Fast forward

: Rewind

: Pause.

Each pressing changes the speed in the following sequence: x1 → x2 → x20 → x1

Each pressing changes the speed in the following sequence: x1 → x2 → x20 → x1

- Press  again after playback ends to display the menu.

**PLAYBACK** Plays back the entire movie again.

**FRAME BY FRAME**

Plays back the movie manually one frame at a time.

**EXIT** Leaves the movie playback mode.

Press   to select PLAYBACK, FRAME BY FRAME or EXIT, then press .



## ● When FRAME BY FRAME is selected

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



### TIPS

- Movies can also be played back in the shooting mode using QUICK VIEW.  "QUICK VIEW" (P.140)



Note

- While the card access lamp blinks, the camera is reading the movie from the card. Reading of movies may take considerable time. Do not open the card cover while the card access lamp is blinking as this may cause not only the data on the card to be damaged, but may also render the card unusable.

# Editing movies

This function lets you create indexes from as well as edit movies. However, you cannot edit movies longer than approximately 23 seconds in SHQ mode, 75 seconds in HQ mode and 300 seconds in SQ mode.

**INDEX** 9 frames extracted from a movie are displayed as an index to show the movie at a glance. Indexes can be stored on the card as a still picture.

**EDIT** This function lets you erase parts of the movie that you do not want.

## Mode dial



- 1 Use the arrow pad to select a picture with .



Arrow pad

OK button

- 2 In the top menu, select **MOVIE PLAY**, then choose each item.

 "How to use the menus" (P.49)

- Select "INDEX"
- Select "EDIT"  P.150



7

Playback

## Creating an index

- 3 Press   to select **INDEX**, then press .



#### 4 Select the first frame of the index with the arrow pad 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.



#### 5 As in Step 4, select the last frame of the index with the arrow pad and press .



#### 6 Press to select the card, then press .

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

#### 7 Press to select OK, then press .

- The camera returns to the playback mode, then the 9 frames extracted from the movie appear as an index display. The index is stored as a new picture.
- If you want to select different frames, select RESET and press  and repeat the procedure from Step 4.
- To quit the index 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	SQ2 (2048 × 1536 pixels)
HQ	SQ2 (1024 × 768 pixels: HIGH)
SQ	SQ2 (640 × 480 pixels: HIGH)



Note

- The interval between the frames that are automatically picked out 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

- 3** Press to select EDIT, then press .



- 4** Select the first frame of the part you want to keep with the arrow pad 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.



- 5** As in Step 4, select the last frame of the part you want to keep and press .



- 6** Press   to select the card, then press .

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

- 7** Press   to select **NEW FILE** or **OVERWRITE**, then 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.



- 8** Press   to select **OK**, then press .

- If you want to select different frames, select **RESET** and press  and repeat the procedure from Step 4.
- To quit the editing function, select **CANCEL** and press .



- The edited movie is stored and the screen returns to the playback mode.



Note

- You cannot edit movies with sound which were taken with another digital camera.
- You cannot select **NEW FILE** if there is insufficient memory space on the card.

# Playback on a TV

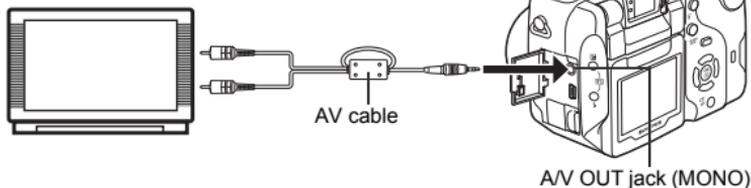
Use the AV cable provided with the camera to play back recorded images on your TV. Both still pictures and movies can be played back.

## Mode dial



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

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



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

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

- 3 **Set the mode dial to  and 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.
- The close-up playback, index display, slideshow and other playback functions can also be used on a TV screen.



### TIPS

- You are recommended to use the optional AC adapter when using the camera with a TV.



Note

- Make sure that the camera's video output signal type is the same as the TV's video signal type.  "VIDEO OUT – Selecting the video signal type" (P.194)
- 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.
- When pictures are compressed in order to fit the entire picture on the TV screen, a black frame appears around the picture. If the picture is output to a video printer via the TV, the black frame may be printed.

# Recording sound

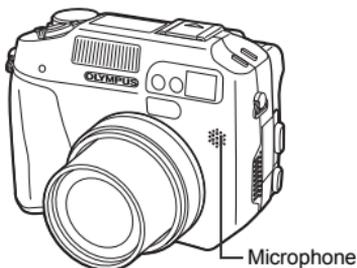


Sound can be added to a still picture that you have already taken. (This is known as “after-recording”.) You can also re-record over the sound that has already been recorded. Total recording time per picture is approximately 4 seconds.

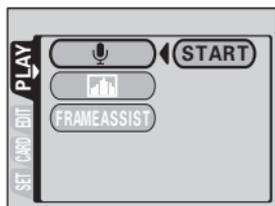
## Mode dial



- 1 Use the arrow pad to select the still picture you want to add sound to.
- 2 In the top menu, select **MODE MENU** → **PLAY** → .  
 “How to use the menus” (P.49)



- 3 Press to display **START**.
- 4 Turn the camera microphone toward the sound you want to record and press to start recording.
  - The **BUSY** bar is displayed during recording.



Note

- To obtain the optimum sound, the microphone should be placed no farther than 1 m (3.3 ft.) away from the subject.
- 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.

7

Playback

# Editing still pictures

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

## Resizing

Changes the picture size to 640 × 480 or 320 × 240 and stores the picture as a new file.

## Trimming

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

## RAW DATA EDIT

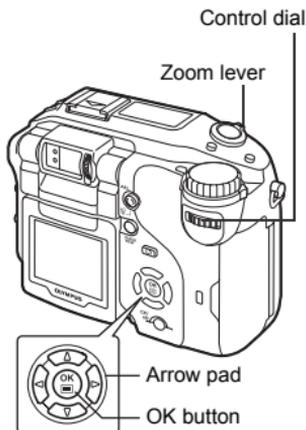
Adjusts the white balance, sharpness, etc. of the pictures recorded in the RAW data format and stores them as new TIFF or JPEG files. You can edit recorded pictures to your liking while checking the result.

### Mode dial

## 1 In the top menu, select **MODE MENU** → **EDIT**, then choose each item.

 "How to use the menus" (P.49)

- Select   P.155
- Select   P.155
- Select RAW DATA EDIT  P.157  
When selecting RAW DATA EDIT, display the image recorded in RAW mode first.



## Resizing



- 2 Select , then press .
- 3 Turn the control dial to select the still picture you want to edit, then press .
- 4 Press   to select a resolution, then press .
  - To quit the resizing function, select CANCEL, then press .
- 5 Press   to select the card, then press .
  - If only one card is inserted, skip this step.
  - When there is insufficient card memory, the display returns to the setting screen.
- 6 Press   to select OK, then press .
  - The **BUSY** bar is displayed during resizing. After the image is saved, the camera returns to Step 3.



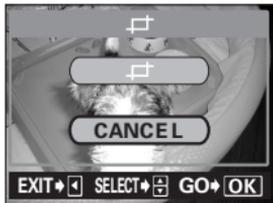
Note

- Resizing is not possible in the following cases.
  - Movies, pictures that have been edited on a PC, or when there is insufficient memory space on the card.
  - If the size of the selected picture is 640 × 480, you cannot select 640 × 480.

## Trimming



- 2 Select , then press .
- 3 Turn the control dial to select the still picture you want to edit, then press .
- 4 Press   to select , then press .



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

- Press to select the trimming frame, and turn the zoom lever toward W or T to decide the trimming size.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 2592 × 1944, or 2592 × 1728.



## 6 Press .

- The trimmed picture is displayed for one second.

## 7 Press to select the card, then press .

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

## 8 Press to select OK, then press .

- The **BUSY** bar is displayed during trimming. After the image is saved, the camera returns to Step 3.
- The trimmed picture is stored as a separate picture from the original.
- If you want to trim the picture again, select RESET and press and repeat the procedure from Step 5.
- To quit the trimming function, select CANCEL and press .

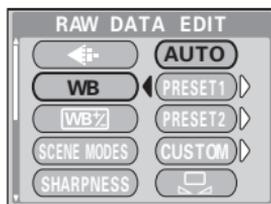
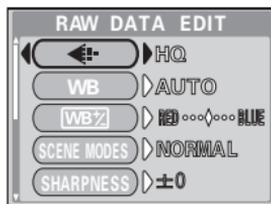


Note

- Trimming is not possible in the following cases.
  - Movies, when there is insufficient memory space on the card, or when the picture was taken with the record mode set to ENLARGE SIZE
  - It may not be possible to trim pictures taken with another camera.
  - If a trimmed picture is printed out, it may appear grainy.

## RAW editing

- 2 Select **RAW DATA EDIT**, then press .
- 3 Turn the control dial to select the still picture you want to edit, then press .
  - You can only select an image recorded in RAW mode.
- 4 Press   to select the item you want to set, then press .
- 5 Press   to select the desired setting, then press .



- 6 When all the necessary items have been set, press .
- 7 Press   to select the card, then press .
  - If only one card is inserted, skip this step.
  - When there is insufficient card memory, the display returns to the setting screen.
- 8 Press   to select **OK**, then press .
  - The **BUSY** bar is displayed during editing. After the image is saved, the camera returns to Step 3.

### ● Items that can be set by RAW editing

Function	Settings	Ref. Page
	TIFF, SHQ, HQ, SQ1, SQ2	P.120
WB	AUTO, PRESET 1, PRESET 2, CUSTOM, 	P.128
	RED7 to BLUE7	P.133
SCENE MODES	NORMAL,  ,  , 	P.137
SHARPNESS	±5	P.134
CONTRAST	±5	P.135
SATURATION	±5	P.136
FUNCTION	OFF, BLACK & WHITE, SEPIA	P.116
	-	P.155

# Copying pictures

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

The selected card is the copying source. You can change the copying source by pressing the card button. "Switching cards" (P.31)

**ALL** Copies all the pictures on the card.

**SELECT** Copies only the selected picture.

## Mode dial



- 1 In the top menu, select MODE MENU → EDIT → COPY, and press .**

"How to use the menus" (P.49)

- The screen is displayed for you to select ALL or SELECT.

- 2 Press to select ALL or SELECT, then press .**

### ● If you choose ALL

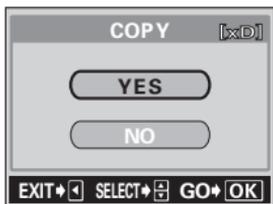
A confirmation screen appears asking if you want to copy the pictures. Select YES and press .

- The pictures are copied and the menu is exited.

### ● If you choose SELECT

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

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



Note

- Pictures cannot be copied to the same card.
- Files with a volume of 25 MB or over (movies of over approximately 28 seconds in SHQ mode, 75 seconds in HQ mode or 300 seconds in SQ mode) cannot be copied. If you try to copy such files, the message "FILE SIZE SELECTED TOO LARGE" will be displayed.



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.

## Mode dial



- 1 Use the arrow pad or control dial to display the picture you want to protect.

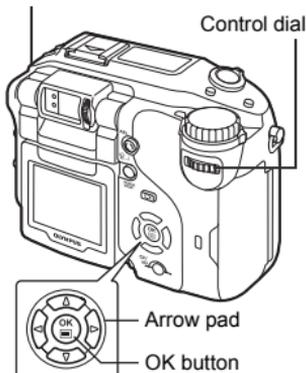
"Viewing still pictures" (P.139)

- 2 Press .

• To cancel protection, press again.

Protect button

Control dial



Arrow pad

OK button



Displayed when a picture is protected.



Note

- Protected pictures cannot be erased by the single-frame/all-frame erase function, but they are all erased by formatting.



This function lets you erase recorded pictures. Single-frame erase erases only the picture displayed on the monitor and all-frame erase erases all the pictures on the card.



Note

- You cannot erase pictures that are protected. 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.159)

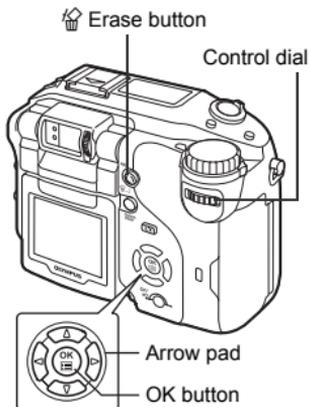
## Single-frame erase



Mode dial

- 1 Use the arrow pad or control dial to display the picture you want to erase.

"Viewing still pictures" (P.139)



- 2 Press .
    - The ERASE screen is displayed.
  - 3 Press to select YES, then press .
- The picture is erased and the menu is closed.



## All-frame erase



This function erases all the pictures on the card.

### Mode dial



- 1 In the top menu, select **MODE MENU** → **CARD** → **CARD SETUP** and press .

 "How to use the menus" (P.49)



Arrow pad

OK button

- 2 Press   to select  **ALL ERASE**, then press .

- 3 Press   to select **YES**, then press .

- All the pictures are erased.



7

Playback

## 8 Useful functions

### ALL RESET – Saving the camera's settings

This function lets you 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 in one 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.

Ex. If the record mode is changed to SQ1 and All Reset is set to ON, the record mode will return to HQ (factory default setting) next time the camera is turned on.

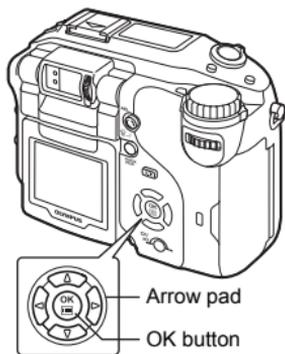
**OFF** The settings made before the power is turned off are saved.



- 1 In the top menu, select **MODE MENU** → **SETUP** → **ALL RESET** → **OFF** or **ON**, and press

"How to use the menus" (P.49)

- Press again to exit the menu.



Note

- My Mode settings and functions on the SETUP tab in the Mode Menu (ALL RESET, ), etc.) are not returned to the factory default settings even when All Reset is set to ON.

## ● Functions that All Reset affects

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
FNo	F2.8	P.86	AF MODE	iESP	P.91
SHUTTER	1/1000	P.87	🎤 (still pictures)	OFF	P.117
Progtam Shift	Reset	P.59	ACCESSORY	OFF	P.119
	0.0	P.126	FUNCTION	OFF	P.116
FLASH MODE	AUTO	P.74		OFF	P.176
	0.0	P.80		OFF	P.114
AF/🎤/MF	AF	P.95, 103, 104	iREAL	OFF	P.89
METERING	ESP	P.97	◀️	HQ	P.120
	OFF	P.105, 106	WB	AUTO	P.128
LCD	ON (lights)	P.19		No compensation	P.133
CARD	xD	P.31	SCENE MODES	NORMAL	P.137
OPTICAL ZOOM	WIDE	P.72	SHARPNESS	±0	P.134
DRIVE		P.108	CONTRAST	±0	P.135
BKT	±1.0, 3 pictures	P.109	SATURATION	±0	P.136
ISO	AUTO	P.125	TIFF	2592×1944	P.123
MY MODE	MY MODE1	P.90	SHQ, HQ	2592×1944	P.123
FLASH	IN+	P.81	SQ1	1600×1200 NORMAL	P.123
SLAVE	1	P.85	SQ2	640×480 NORMAL	P.123
SLOW	SLOW1	P.79	FRAME ASSIST	OFF	P.183
NOISE REDUCTION	OFF	P.137	INFO	OFF	P.175
DIGITAL ZOOM	OFF	P.73	RESIZING	640×480	P.155
FULLTIME AF	OFF	P.92			

# Custom button



You can set frequently used functions on the custom button. This makes it easy to jump to the SETUP screen without selecting MODE MENU or a shortcut menu in the top menu. Selecting a setting with the control dial and pressing  displays a dedicated screen for that setting. You can make fine settings using the arrow pad and .

 Custom button



Functions that can be set on the custom button	Settings made by the control dial	Ref. Page
DRIVE (factory default setting)	 , HI  ,  , AF  , BKT*	P.108
ISO	AUTO, 80, 100, 200, 400	P.125
MY MODE*	1, 2, 3, 4, 5, 6, 7, 8	P.90
NOISE REDUCTION	OFF, ON	P.137
DIGITAL ZOOM	OFF, ON	P.73
FULLTIME AF	OFF, ON	P.92
 (still pictures)	OFF, ON	P.117
FUNCTION	OFF, BLACK & WHITE, SEPIA, WHITE BOARD, BLACK BOARD	P.116
	RAW, TIFF*, SHQ*, HQ*, SQ1*, SQ2*	P.120
WB	AUTO, PRESET 1*, PRESET 2*, CUSTOM*, 	P.128
SCENE MODES	NORMAL,  ,  , 	P.137
SHARPNESS	-5 to $\pm 0$ to +5	P.134
CONTRAST	-5 to $\pm 0$ to +5	P.135
SATURATION	-5 to $\pm 0$ to +5	P.136

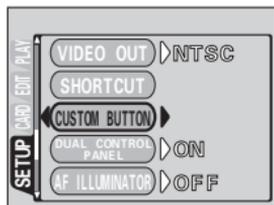
\* The sub-menu lets you select further options.

## Setting the custom button



- 1 In the top menu, select **MODE MENU** → **SETUP** → **CUSTOM BUTTON**, and press .

 "How to use the menus" (P.49)



- 2 Press   to select the function you want to set, then press .

• Press  again to exit the menu.



Note

- If the mode dial is set to a mode other than  and  is pressed when MY MODE is set on the custom button, the customized settings are not activated. Set the mode dial to  and press  to display the MY MODE screen.

## Using the custom button



### 1 Press .

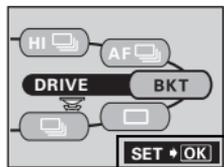
- The function currently set to the custom button appears on the monitor.

### 2 Turn the control dial while holding down to set.

- The  button is used in the same way as the direct button.
-  "Direct button operations" (P.42)
- When an operation guide is displayed at the bottom of the screen, more specific settings can be made.

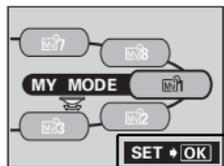


Ex1: When DRIVE is set on the custom button



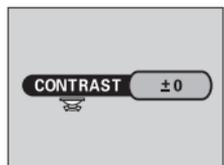
Operation guide

Ex2: When MY MODE is set



Operation guide

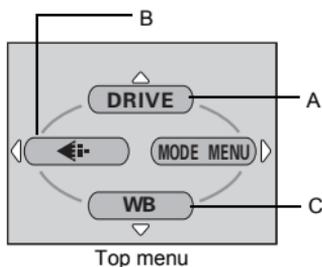
Ex3: When CONTRAST is set



# Shortcut

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

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



Default setting

A: DRIVE

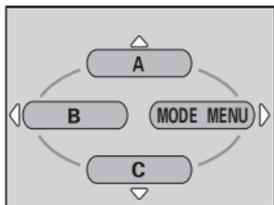
B: RECORD MODE

C: WHITE BALANCE

Functions that can be set in the shortcut menu	Ref. Page	Functions that can be set in the shortcut menu	Ref. Page
DRIVE	P.108	FUNCTION	P.116
ISO	P.125		P.176
MY MODE	P.90		P.114
FLASH	P.81		P.89
SLOW	P.79		P.120
NOISE REDUCTION	P.137	WB	P.128
DIGITAL ZOOM	P.73		P.133
FULLTIME AF	P.92	CUSTOM WB	P.130
AF MODE	P.91	SCENE MODES	P.137
ACCESSORY	P.119	SHARPNESS	P.134
(still pictures)	P.117	CONTRAST	P.135
PANORAMA	P.111	SATURATION	P.136
2 IN 1	P.113		

## Setting the shortcut menu

You can set the three shortcut menus designated by A, B and C on the diagram shown right.



- 1 In the top menu, select **MODE MENU** → **SETUP** → **SHORT CUT**, and press .

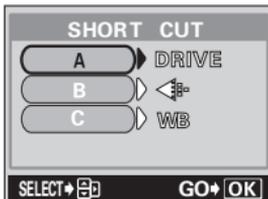
"How to use the menus" (P.49)



Arrow pad

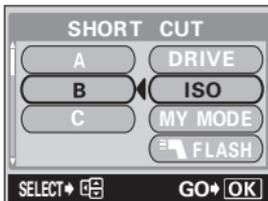
OK button

- 2 Press to select A, B or C, then press .



- 3 Press to select the function you want to set, then press .

- The shortcut menu is set.
- Press again to exit the menu.



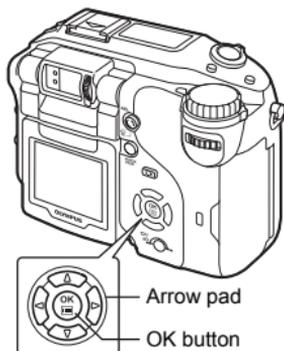
## Using the shortcut menu

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



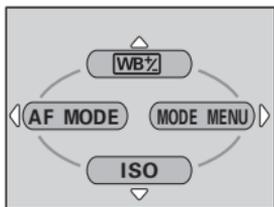
### 1 Press to display the top menu.

- The shortcut menu you have set appears on the top menu.

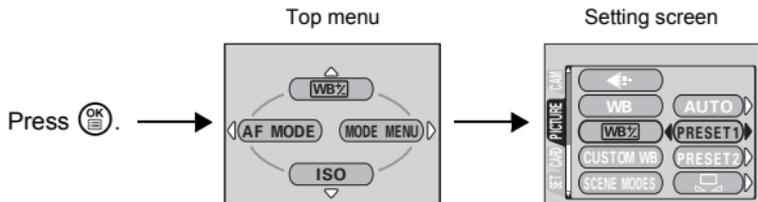


### 2 Press , or to select the shortcut menu.

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



Ex: When **WB%** is set in shortcut menu A



Pressing takes you directly to the **WB%** screen.

You can set shooting-related functions in MY MODE. When the camera is in **P**, **A**, **S** or **M** mode, you can also save the current settings in MY MODE. When the mode dial is set to , your customized settings are activated. You can save up to 8 different settings in MY MODE 1 to 8. Only MY MODE 1 has a factory default setting.

## ● Functions affected by MY MODE SETUP

Functions that can be set in MY MODE	Default setting	Ref. Page	Functions that can be set in MY MODE	Default setting	Ref. Page
P/A/S/M/S-Prg	P	P.59	FULLTIME AF	OFF	P.92
FNo	F2.8	P.86	AF MODE	iESP	P.91
SHUTTER	1/1000	P.87	ACCESSORY	OFF	P.119
	0.0	P.126	 (still pictures)	OFF	P.117
LCD* <sup>1</sup>	ON	P.19	PANORAMA	OFF	P.111
ZOOM* <sup>2</sup>	28 mm	–	2 IN 1	OFF	P.113
FLASH MODE	AUTO	P.74	FUNCTION	OFF	P.116
	0.0	P.80		OFF	P.176
	ESP	P.97		OFF	P.114
	ON	P.105, 106	 REAL	OFF	P.89
AF/  /MF	AF	P.95, 103, 104		HQ	P.120
DRIVE		P.108	WB	AUTO	P.128
ISO	AUTO	P.125		No compensation	P.133
 FLASH	IN+ 	P.81	SCENE MODES	NORMAL	P.137
 SLOW	 SLOW1	P.79	SHARPNESS	±0	P.134
NOISE REDUCTION	OFF	P.137	CONTRAST	±0	P.135
DIGITAL ZOOM	OFF	P.73	SATURATION	±0	P.136

\*1 This will set the monitor to ON, OFF, or ON  (AF target mark only) when the camera is turned on.

\*2 In the  mode, available zoom positions are 28 mm/35 mm/55 mm/80 mm and 110 mm (these numbers are based on the focal length of a 35 mm camera).

Mode dial

P A S M      

- 1 In the top menu, select **MODE MENU** → **SETUP** → **MY MODE**, and press .

 “How to use the menus” (P.49)



Arrow pad

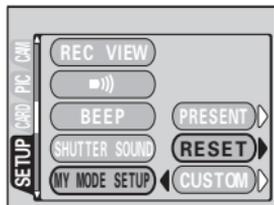
OK button

- 2 Press   to select an item, then press .

**PRESENT** Saves the current camera settings.

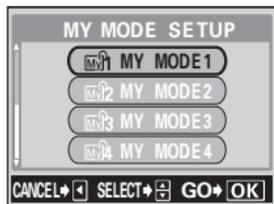
**RESET** Restores the factory default settings.

**CUSTOM** Saves settings one by one.  
• The MY MODE SETUP screen appears.



- 3 Select a **MY MODE** number.

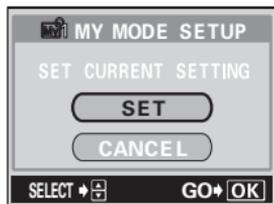
• Press   to select a MY MODE number from 1 to 8, then press .



### ●When selecting PRESENT in Step 2

- 4 Press   to select **SET**, then press .

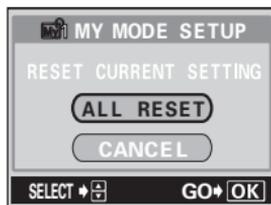
• The current camera settings are saved in the selected MY MODE.



## ● When selecting RESET in Step 2

### 4 Press to select ALL RESET, then press .

- The settings in the selected MY MODE are reset.
- If no settings are saved, the relevant MY MODE number cannot be selected.



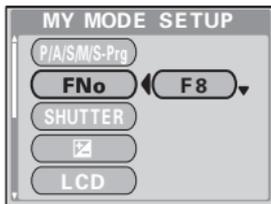
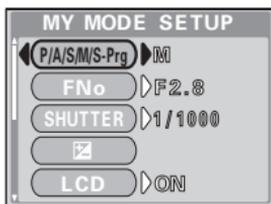
## ● When selecting CUSTOM in Step 2

### 4 Press to select the item you want to save in MY MODE, then press .

- For the available items, see “Functions affected by MY MODE SETUP” (P.170).

### Press to change the setting, then press .

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



### 5 When you have made all the settings you want, press .

- The screen displayed in Step 2 appears.
- Press again to exit the menu.



Note

- The zoom position is set to one of the five zoom positions available in MY MODE SETUP. The value closest to the current zoom position will be selected.

# Formatting cards



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

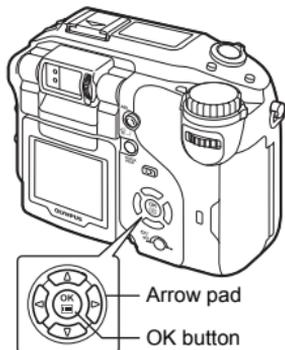
All data stored on the card, including protected pictures, is erased when the card is formatted. When formatting a used card, confirm there are no pictures that you still want to keep on the card.



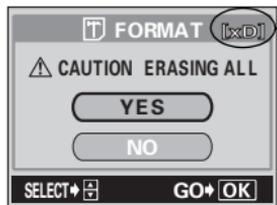
- 1 In the top menu, select **MODE MENU** → **CARD** → **CARD SETUP** and press

“How to use the menus” (P.49)

- **P A S M**   
The **FORMAT** screen is displayed.
- The **CARD SETUP** screen is displayed.



- 2 If the mode dial is set to **P A S M** , press to select **YES**. If the mode dial is set to , press to select **FORMAT**, then press . The **FORMAT** screen is displayed. Press to select **YES**.



The card to be formatted is displayed.

### 3 Press .

- The **BUSY** bar is displayed and the card is formatted.



Note

- Do not perform any of the following actions during formatting as they may render the card unusable.  
Open the card cover, remove the battery, connect or disconnect the AC adapter (regardless of whether or not the battery is loaded in the camera).

## Exposure steps – Selecting the adjustment increments

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

## 8

### Useful functions

Mode dial



- 1 In the top menu, select **MODE MENU** → **SETUP** → **EV STEP** → **1/3EV** or **1/2EV**, and press .

 "How to use the menus" (P.49)

- Press  again to exit the menu.



Arrow pad

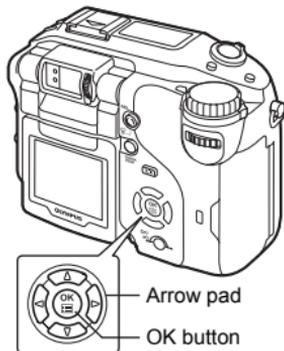
OK button

This function lets you display detailed shooting information on the monitor for 3 seconds in the playback mode. For details of the information displayed, see “Monitor indications” (P.20).

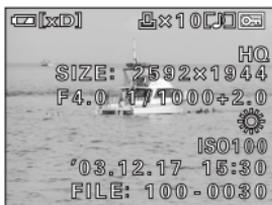
**Mode dial** 

**1** Pressing  in the top menu displays the full amount of shooting information on the monitor (ON).

 “How to use the menus” (P.49)



- To turn INFO off, press  again to bring up the top menu and press  (OFF).



When INFO is ON



When INFO is OFF



Note

- If the picture has been taken with a different camera, not all the information may be displayed when INFO is set to ON.
  - If  is set to ON, the histogram is displayed regardless of whether INFO is set to ON or OFF.
  - The file number used to specify an image when making non-DPOF print reservations is displayed when INFO is set to ON.
-  “How to print pictures” (P.198)

# Histogram display – Displaying the luminance distribution of still pictures

During shooting and playback, 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 image.

Checking the histogram during shooting enables precise exposure control. During playback, you can display a histogram showing the brightness and contrast of recorded pictures.

The histogram display can be set separately for shooting mode and playback mode.

**OFF** The histogram is not displayed.

**☑ ON** The histogram is displayed when  is pressed. This function is not available in  mode.  “Exposure compensation” (P.126)

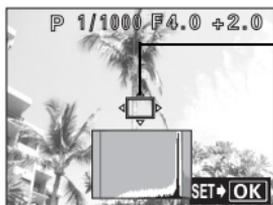
**ON** The histogram is always displayed.

**DIRECT** The black and white areas are displayed directly on the image.

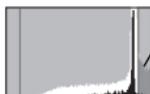
Ex. Hold down , when ON or  ON is selected in **P** mode

When the image is bright

When the image is dark

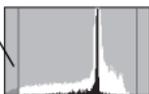


Histogram target mark



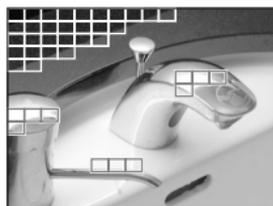
If the peak fills too much of the right frame, the image will appear mostly white.

If the peak fills too much of the left frame, the image will appear mostly black.



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

Ex. When **DIRECT** is selected in **P** mode



Red frame: Mostly white area  
Blue frame: Mostly black area

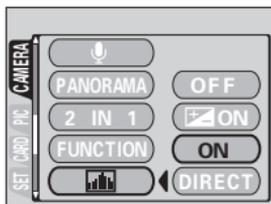
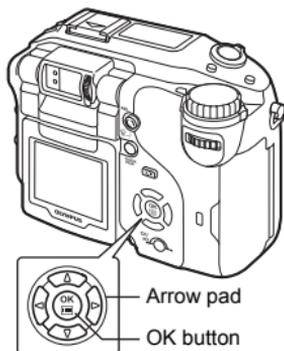
If the area contains both black and white parts, it is displayed in the blue frame.



- 1** In the top menu, select **MODE MENU** → **CAMERA** → , then choose the histogram display method and press .

 "How to use the menu" (P.49)

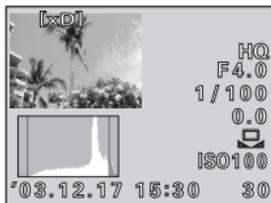
- Press  again to exit the menu.
- When **ON** or **DIRECT** is selected, the histogram is displayed on the monitor.



- In the top menu, select **MODE MENU** → **PLAY** → , then choose the histogram display method and press .

 "How to use the menu" (P.49)

- Selecting **ON** displays the histogram.
- If you select **DIRECT**, the black area of the image blinks blue and the white area blinks red.



When **ON** is selected in the playback mode



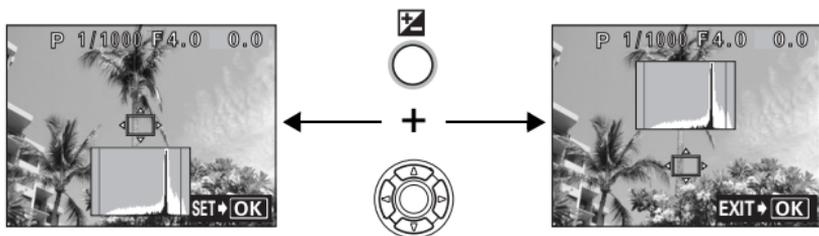
Note

- The histogram is not displayed in the following situations even if histogram display is set to ON.  
In **M** mode, during panorama shooting, during 2 in 1 shooting, during multi-metering
- You can turn the histogram display on and off during exposure compensation. “Exposure compensation” (P.126)
- The histogram displayed during shooting may differ from that displayed during playback.
- The histogram is not displayed in movie mode.
- It may not be possible to display a histogram for pictures taken with another camera.

### ● Changing the position of the histogram target mark

While the histogram is displayed in shooting mode, hold down and use the arrow pad to move the histogram target mark. The area inside the target is displayed in green on the histogram.

To restore the histogram target mark to its original position, press while holding down the button.



# Dual control panel – Displaying control panel information on the monitor

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



- 1 In the top menu, select **MODE MENU** → **SETUP** → **DUAL CONTROL PANEL** → **ON**, and press .

“How to use the menus” (P.49)

- Press again to exit the menu.

- 2 Press repeatedly to display the dual control panel.

- When the dual control panel is ON, follow the steps below to change the display on the LCD monitor.

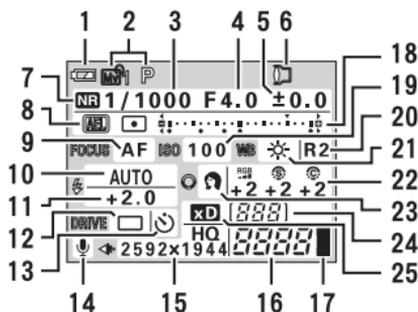


- Pressing the direct button displays the setting in green on the dual control panel. Each setting can be made on the dual control panel by turning the control dial.
- For more details “Dual control panel screen” (P.180) (next page)



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

## ● Dual control panel screen



1	Battery check
2	Shooting mode
3	Shutter speed
4	Aperture value
5	Exposure compensation
6	Accessory
7	Noise reduction
8	AE lock/AE memory
9	Focus mode
10	Flash mode
11	Flash intensity control
12	Drive
13	Self-timer/Remote control
14	Sound record

15	Record mode/Resolution
16	Number of storable still pictures/Recordable time
17	Memory gauge
18	Spot metering/Multi-metering point/Center-weighted metering
19	ISO
20	White balance compensation
21	White balance
22	Saturation/sharpness/contrast
23	Scene modes
24	Folder number
25	Card

# Monitor brightness adjustment

This function lets you adjust the brightness of the monitor.



- 1** In the top menu, select **MODE MENU** → **SETUP** → , and press .

 "How to use the menus" (P.49)



- 2** Press   to adjust the brightness of the monitor, and when you have set the desired level, press .

- Pressing  brightens the monitor, and pressing  darkens it.
- Press  again to exit the menu.



# REC VIEW – Checking the picture immediately after shooting

You can display the picture you have just taken on the monitor while it is being recorded to the card.

- 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. You can get ready to take the next picture during Rec View.
- 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.

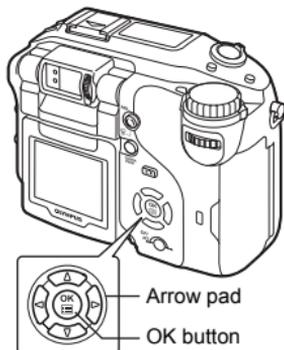
Mode dial



- 1** In the top menu, select **MODE MENU** → **SETUP** → **REC VIEW** → **OFF** or **ON**, and press .

"How to use the menus" (P.49)

- Press again to exit the menu.



Arrow pad

OK button

# FRAME ASSIST display – Displaying guidelines on the monitor

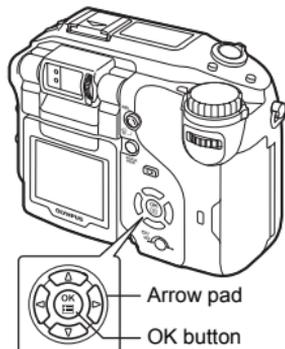
This function displays guidelines on the monitor during playback.

## Mode dial

- 1 In the top menu, select **MODE MENU** → **PLAY** → **FRAME ASSIST** → **ON**, and press .

 “How to use the menus” (P.49)

- Press  again to exit the menu.



- Guidelines are displayed.



# Beep – Setting the warning tone

You can select the volume of the beep sound used for warnings from OFF, LOW, or HIGH. The factory default setting is HIGH. You can turn the sound off completely by setting OFF.

Mode dial 

**P A S M**       

- 1 In the top menu, select **MODE MENU** → **SETUP** →  → **OFF**, **LOW** or **HIGH**, and press .

 “How to use the menus” (P.49)

- Press  again to exit the menu.



# Button operation beep – Setting the button operation sound

**BEEP**

You can select from 2 kinds of sounds for button operations. You can also set the volume of each kind of sound to LOW or HIGH. The factory default settings are 1 (short beep) for the kind of sound and LOW for the volume. You can turn the sound off completely by setting OFF.

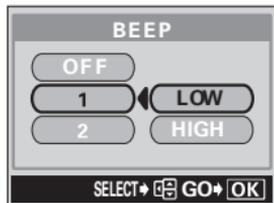
**Mode dial**

- 1 In the top menu, select **MODE MENU** → **SETUP** → **BEEP**, and press

“How to use the menus” (P.49)



- 2 Select **1** or **2** and press . Then select **LOW** or **HIGH** and press .
  - To turn the sound off completely, select OFF and press .
  - Press again to exit the menu.

**8**

Useful functions

# SHUTTER SOUND – Setting the shutter sound

You can select from 2 kinds of sounds for the shutter button. You can also set the volume of each kind of sound to LOW or HIGH. The factory default settings are 1 for the kind of sound and LOW for the volume. You can turn the sound off completely by setting OFF. You can turn the sound off completely by setting OFF.

Mode dial

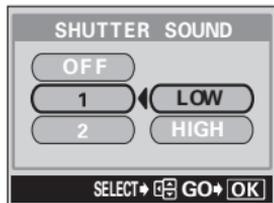


- 1 In the top menu, select **MODE MENU** → **SETUP** → **SHUTTER SOUND**, and press

"How to use the menus" (P.49)



- 2 Select 1 or 2 and press . Then select **LOW** or **HIGH** and press .
  - To turn the sound off completely, select OFF and press .
  - Press again to exit the menu.



# Playback volume – Adjusting the sound volume

You can adjust the volume when playing back a still picture with sound or a movie, as well as the volume of the sound generated when the power is turned on or off. There are 5 levels to choose from.

## Mode dial



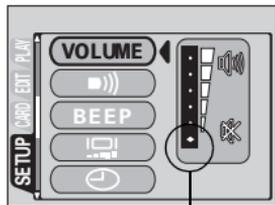
- 1 In the top menu, select **MODE MENU** → **SETUP** → **VOLUME**, and press

☞ “How to use the menus” (P.49)



- 2 Press to select the volume level, then press .

• Press again to exit the menu.



Selecting this level will mute the sound completely.

# PW ON/PW OFF SETUP – Selecting the startup/shutdown screen and sound

You can select a picture and sound for when the power is turned on or off. It is also possible to register your favorite picture for display. “SCREEN SETUP – Registering a picture for the startup/shutdown screen” (P.189)

**PW ON SETUP** Selects the picture and sound for when the power is turned on.

**PW OFF SETUP** Selects the picture and sound for when the power is turned off.



- 1 In the top menu, select MODE MENU → SETUP → PW ON (PW OFF) SETUP.**

“How to use the menus” (P.49)

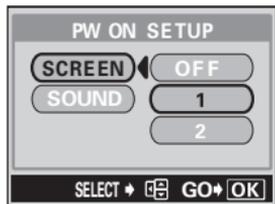


- 2 Press to select SCREEN, then press . Press to select OFF, 1 or 2, then press .**

**OFF** No picture is displayed

1 Factory default setting

2 Selects the picture already registered. If there is no picture registered, nothing is displayed when the power is turned on or off.



- 3 Press to select SOUND and choose the sound when the power is turned on or off. Press to select OFF, 1 or 2, then press .**

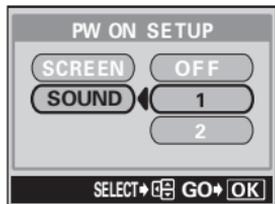
- Select up to two kinds of sound. To turn off the sound completely, select OFF.

- The volume level is the same as that set for the playback volume.

“Playback volume – Adjusting the sound volume” (P.187)

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

Press repeatedly until the menu disappears.



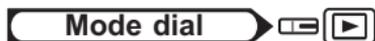
# SCREEN SETUP – Registering a picture for the startup/shutdown screen

You can register your favorite picture for display when the power is turned on or off. The desired picture can be registered from those stored on the card. Use the power on/off display function to display the registered picture.

“PW ON/PW OFF SETUP – Selecting the startup/shutdown screen and sound” (P.188)

**PW ON** Registers a picture for display when the power is turned on.

**PW OFF** Registers a picture for display when the power is turned off.



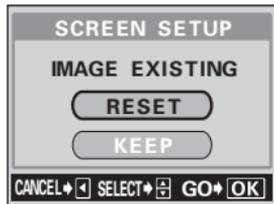
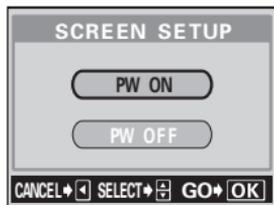
- 1** In the top menu, select **MODE MENU** → **SETUP** → **SCREEN SETUP**, and press .

“How to use the menus” (P.49)



- 2** Press to select **PW ON** or **PW OFF**, then press .

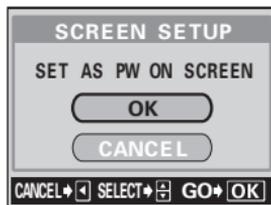
- If a picture is already registered, the **IMAGE EXISTING** screen is displayed asking if you want to cancel the currently registered picture and register a new one. To register a new picture, select **RESET** and press . If you select **KEEP**, the screen returns to the **PW ON/OFF** selection screen.



- 3** Use the arrow pad to select the picture you want to register, then press .

#### 4 Press to select OK, then press .

- The picture is registered and the screen returns to Step 2. You can register other pictures.
- Press  to return to the menu.

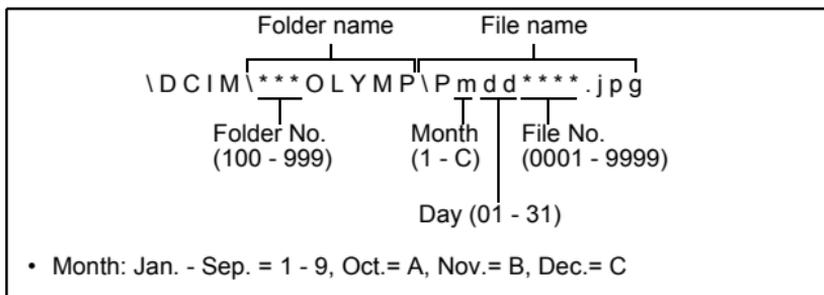


Note

- You cannot register pictures that cannot be played back on this camera or movie frames.

# FILE NAME – Assigning a 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 PC.

## 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.

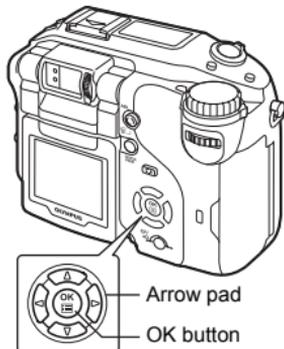
**AUTO** Even if a new card is inserted, the folder number and file number are retained from the previous card, so the same file number is not used on different cards. This helps you to manage multiple cards. This method is useful when you want to manage all your files with sequential numbers.

## Mode dial



- 1 In the top menu, select **MODE MENU** → **SETUP** → **FILE NAME** → **RESET or AUTO**, and press .  
 "How to use the menu" (P.49)

- Press  again to exit the menu.





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 – Checking the image processing functions

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 over a minute after the monitor is used or continuous shots are taken to allow for proper performance of the Pixel Mapping function.



- In the top menu, select MODE MENU → SETUP → PIXEL MAPPING, and press**

“How to use the menus” (P.49)

- 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 accidentally turn the camera off during Pixel Mapping, start again from Step 1.

# Measurement units

## – m/ft (meters/feet)

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



- 1** In the top menu, select **MODE MENU** → **SETUP** → **m/ft** → **m** or **ft**, and press .

 "How to use the menus" (P.49)

- Press  again to exit the menu.



# VIDEO OUT – Selecting the video signal type

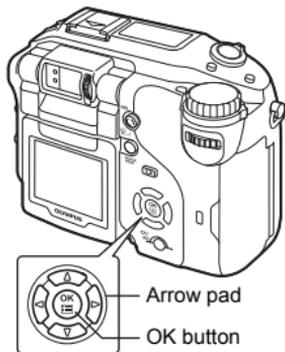
You can select NTSC or PAL according to your TV's video signal type. Select the video signal type before connecting the AV cable. If you use the wrong video signal type, you will not be able to play back the recorded pictures properly on your TV.



- 1 In the top menu, select **MODE MENU**  
→ **SETUP** → **VIDEO OUT** → **NTSC** or  
**PAL**, and press .

 "How to use the menus" (P.49)

- Press  again to exit the menu.



## TIPS

### TV video signal types & main regions

Check the video signal type before using the camera.

NTSC North America, Japan, Taiwan, Korea

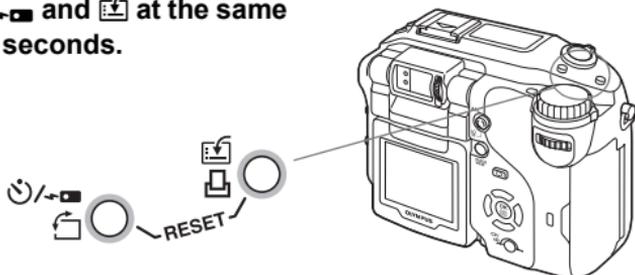
PAL European countries, China

# RESET – Initializing the camera settings

This function returns the settings to the factory default settings.



- 1 Press and at the same time for 3 seconds.



## ● Functions that are reset

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
FNo	F2.8	P.86	AF MODE	iESP	P.91
SHUTTER	1/1000	P.87	ACCESSORY	OFF	P.119
Program shift	Reset	P.59	(still pictures)	OFF	P.117
	0.0	P.126	PANORAMA	OFF	P.111
Histogram target	Center	P.178	2 IN 1	OFF	P.113
FLASH MODE	AUTO	P.74	FUNCTION	OFF	P.116
	0.0	P.80		OFF	P.176
AF//MF	AF	P.95, 103, 104		OFF	P.114
AF target	Center	P.93	iREAL	OFF	P.89
	ESP	P.97		HQ	P.120
Metering Target	Center	P.98		No compensation	P.133
AE LOCK (Multi-Metering)	OFF	P.101	SCENE MODES	NORMAL	P.137
	OFF	P.105, P.106	LCD	ON	P.19
FULLTIME AF	OFF	P.92	CARD	xD	P.31

Function	Factory default setting	Ref. Page	Function	Factory default setting	Ref. Page
DRIVE		P.108	DIGITAL ZOOM	OFF	P.73
BKT	±1.0, 3 pictures	P.109	SHARPNESS	±0	P.134
ISO	AUTO	P.125	CONTRAST	±0	P.135
 FLASH	IN+ 	P.81	SATURATION	±0	P.136
SLAVE	1	P.85	TIFF	2592×1944	P.123
 SLOW	 SLOW1	P.79	SHQ, HQ	2592×1944	P.123
WB	AUTO	P.128	SQ1	1600×1200 NORMAL	P.123
NOISE REDUCTION	OFF	P.137	SQ2	640×480 NORMAL	P.123
			INFO	OFF	P.175

# USB setup – Selecting the connection destination

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

- PC** Select when connecting the camera to a PC with the USB cable and transferring pictures to the PC. For instructions on how to connect the camera to your PC, refer to the DIGITAL CAMERA-PC CONNECTION OPERATION MANUAL.
- PRINT** Select when connecting the camera to PictBridge-compatible printer with the USB cable. Pictures can be printed directly without using a PC.  “Connecting the camera to a printer” (P.210)

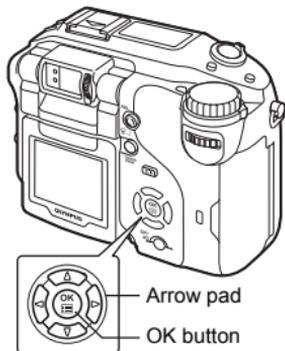
Mode dial



- 1** In the top menu, select **MODE MENU** → **SETUP** → **USB** → **PC** or **PRINT**, and press .

 “How to use the menus” (P.49)

- Press  again to exit the menu.



# 9 Print setting

## How to print pictures



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 in a print shop, by storing such data as which pictures you wish to print and the number of prints on a card.

Pictures taken with print reservation 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 PC. For more details, refer to the printer's instruction manual.

A PC card adapter may also be necessary.

**TIPS****Picture size and printing**

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.120)



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 or at all photo labs.
- Some TIFF images cannot be printed.
- Print reservation may take considerable time when saving printing data to a card.
- Print reservations cannot be made for images recorded in RAW data.

# All-frame reservation

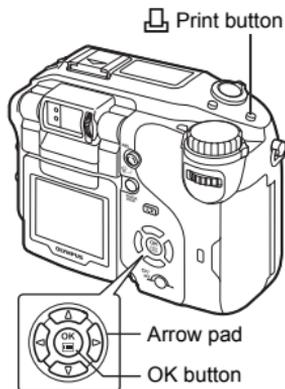


Use this feature to print all the pictures stored on the card. Select the desired number of prints and whether you want the date and time included.

## Mode dial

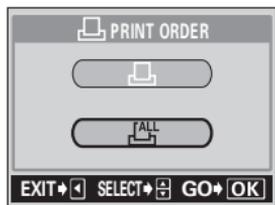
### 1 Play back a still picture.

- You cannot make print reservations for pictures with .



### 2 Press . The PRINT ORDER screen appears.

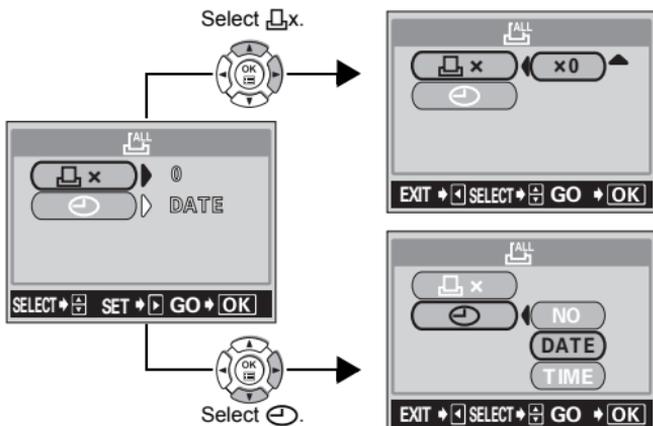
- If print reservation data is already stored on the card, the PRINT ORDER SETTING screen appears, giving you the choice of resetting the data or keeping it.



### 3 Press to select ALL, then press .

### 4 Press to select x (number of prints) or (date/time), then press .

## 5 Perform each setting as illustrated.



### ● Set the number of prints

Press to set the desired number of prints, then press .

: Increases the number.

: Decreases the number.

### ● Set the date/time printing data

Press to select NO, DATE or TIME, then press .

**NO** The pictures are printed without the date and time.

**DATE** All the pictures are printed with the shooting date.

**TIME** All the pictures are printed with the shooting time.

- After completing all the print reservations, press to return to the playback screen.

# Single-frame reservation



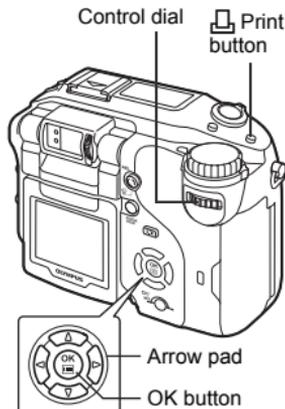
Use this feature to print only selected pictures. Display the picture to be printed and select the desired number of prints.

## Mode dial



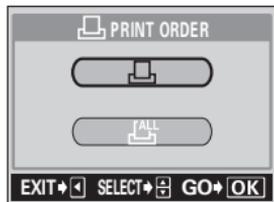
### 1 Play back a still picture.

- You cannot make print reservations for pictures with .



### 2 Press . The PRINT ORDER screen appears.

- If data is already stored on the card, the PRINT ORDER SETTING screen appears, giving you the choice of resetting the data or keeping it.



### 3 Press to select , then press .

### 4 Select the frame you want to print using the arrow pad or the control dial and press .



## 5 Select the appropriate item using the arrow pad.

**MORE** Sets the number of prints, date/time and trim size. The print reservation data is set and the screen proceeds to Step 6.

### SINGLE PRINT

Sets single-frame print. The date/time and trimming settings are not available. →Go to Step 9.

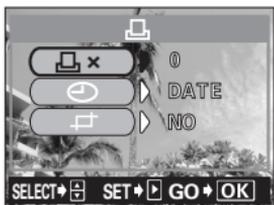
**CANCEL** Cancels the print reservation for the displayed picture.  
→ “Resetting print reservation data” (P.208)

**END** Completes the print reservation. → Go to Step 11.



Single-frame reservation menu

## 6 Press on the arrow pad to select x (number of prints), (date/time) or (trimming), then press .



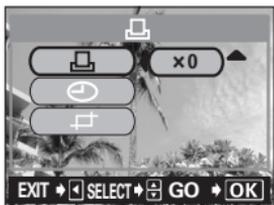
## 7 Perform each setting.

### ● Set the number of prints

Press   to set the desired number of prints, then press .

 : Increases the number.

 : Decreases the number.



## ● Set the date/time printing data

Press to select NO, DATE or TIME, then 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.205)

**8** After completing all the print reservations, press to complete the print reservations and return to the screen in Step 4.

- The icon appears on the displayed picture.
- Repeat steps 4 to 8 to make print reservations for other images.



**9** Press to display the single-frame reservation menu.

**10** Press to select END.

- The PRINT ORDER screen appears.



**11** Press again to display the PRINT ORDER SETTING screen, then press once more to complete the print reservations.

# Trimming



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



- 1 Press on the single-frame reservation screen to select (trimming) and press .

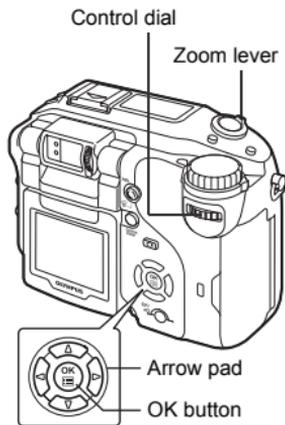
"Single-frame reservation" (P.202)

- If trimming has already been set, the screen appears. Press to select RESET, then press .



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

- Press to select the trimming frame, and turn the zoom lever toward W or T to decide the trimming size.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 2592 × 1944, or 2592 × 1728.



- 3 Press .



#### 4 Press to select OK, then press .

**OK** Saves the current trimming size and returns to the single-frame reservation screen.

**RESET** Sets a new trimming size. → Go to Step 2.

**CANCEL** Cancels the current trimming setting and returns to the single-frame reservation screen.



#### 5 Press to complete the print reservations and return to the picture selection screen. Press again.

#### 6 Press to select END.

- The  PRINT ORDER screen appears.
- Press  again to display the  PRINT ORDER SETTING screen, then press  once more to complete the print reservations.



Note

- The size of the printed picture varies depending on the printer settings. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, you are recommended to use the TIFF, SHQ or HQ mode.
- The original picture is not trimmed. If your printer does not have a trimming feature, the picture will be printed untrimmed.
- Do not rotate pictures that have been trimmed, otherwise the cropped area will change.

# 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

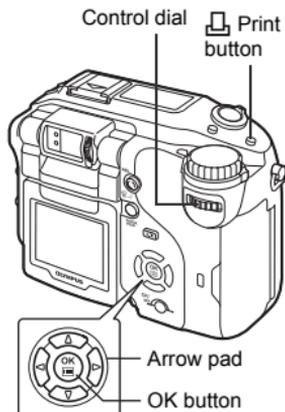
**Mode dial** 

### 1 Press .

- The  PRINT ORDER SETTING screen appears.

### 2 Press to select RESET, then press .

### 3 Press to exit the menu.



## ● To reset the print reservation data for a selected picture



1 Press .

2 Press   to select **KEEP** and press .

- If there is no print reservation data stored on the card, the  PRINT ORDER SETTING screen does not appear.



3 Press   to select , then press .

4 Select the frame for which you want to reset the print reservation data using the arrow pad or the control dial and press .

- The single-frame reservation menu is displayed.



5 Press  to select **CANCEL**.

- The print reservation data is canceled and the screen returns to Step 4.

6 If you have finished canceling print reservation data, press .

- The single-frame reservation menu is displayed.



7 Press  to select **END**.

- Press  repeatedly to return to the playback screen.



# Connecting the camera to a printer

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

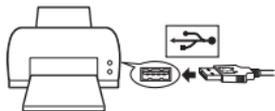
## 1 Set the camera's USB mode to PRINT.

☞ “USB setup – Selecting the connection destination” (P.197)

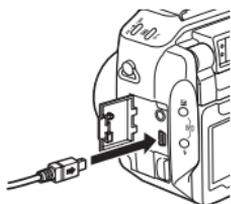
- Have the card containing the pictures you want to print selected.

## 2 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.

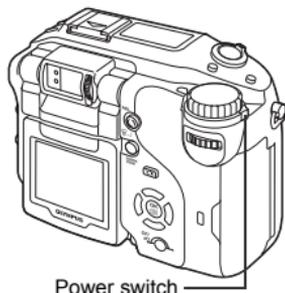


## 3 Set the camera's mode dial to and plug the USB cable into the camera's USB connector.



## 4 Set the power switch to ON to turn the camera on.

- ONE MOMENT is displayed and the camera and printer are connected. The PRINT MODE SELECT screen is displayed on the monitor. Make the print settings on the camera's monitor. ☞ Go to “Printing pictures” (P.211).



10

Direct printing

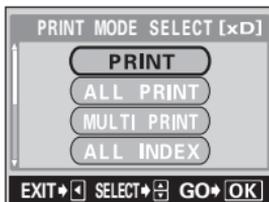


Note

- If the screen is not displayed after several minutes, turn off the camera and start again 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.



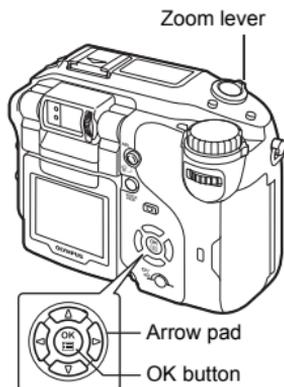
- PRINT** Prints the selected picture.  
☞ "PRINT mode/MULTI PRINT mode" (P.211)
- ALL PRINT** Prints all the pictures stored on the card.  
☞ "ALL PRINT mode" (P.215)
- MULTI PRINT \*** Prints one picture in multiple layout format.  
☞ "PRINT mode/MULTI PRINT mode" (P.211)
- ALL INDEX \*** Prints an index of all the pictures stored on the card.  
☞ "ALL INDEX mode/PRINT ORDER mode" (P.217)
- PRINT ORDER \*** Prints the pictures according to the print reservation data on the card. If no print reservations (P.198) have been made, this option is not available.  
☞ "ALL INDEX mode/PRINT ORDER mode" (P.217)
- \* This option may not be available depending on the type of printer.

## PRINT mode/MULTI PRINT mode

- 1** In the PRINT MODE SELECT screen, press to select PRINT or MULTI PRINT, then press



- The print size settings screen is displayed.

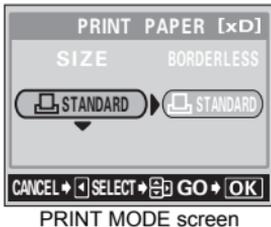


10

Direct printing

**2 Press   to select the paper size, then press .**

- **PRINT** mode: Go to Step 3.
- **MULTI PRINT** mode: Go to Step 4.
- The available paper size settings vary depending on the type of printer.
- When the PRINT PAPER screen is not displayed, SIZE, BORDERLESS and PICS/SHEET are set to  STANDARD. Go to step 5.



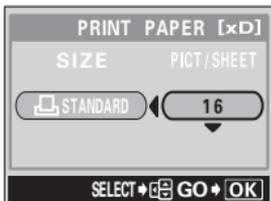
**3 Use   to select framed or unframed, then press . Go to step 5.**

- OFF () The image is printed inside a blank frame.
- ON () The image is printed filling the entire page.



**4 Press   to select PICS/SHEET, then press .**

- PICS/SHEET depends on the paper size set in Step 2 and the capabilities of your printer.



**5 Press   or turn the control dial to select the picture you want to print.**

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



**6 Select the print reservation method**

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

Press .

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

Print reservation mark is displayed.



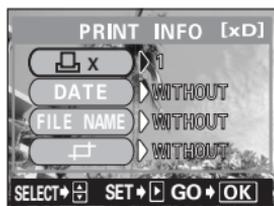
## ● Set MORE print reservations

① Press .

- Print information setting screen is displayed.

② Press   to select the item you want to set, then press .

- Press   to select the item, then press .
- The available options vary depending on the type of printer. Items outside the capability of the printer are not available.



 x

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.  "Trim the picture" (P.219)

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

**③ When you have finished all the settings for MORE, press .**

- The screen displayed in Step 5 appears.
- To print more than one picture in PRINT and/or MULTI PRINT mode, repeat Steps 5 and 6 and make single and/or multiple print reservations for all the pictures you want to print.
-  is displayed in MULTI PRINT mode.

The settings you have made are displayed.



**7 Press .**

- The PRINT screen is displayed.

**8 Print the pictures.**

- Press  or  to select OK or CANCEL, then press .

- OK** Printing starts.
- CANCEL** The settings are canceled and the monitor returns to the PRINT MODE SELECT screen.

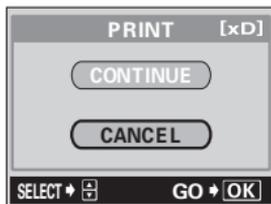


- When printing is finished, the monitor returns to the PRINT MODE SELECT screen.

 "Exiting direct printing" (P.221)

**● To cancel printing**

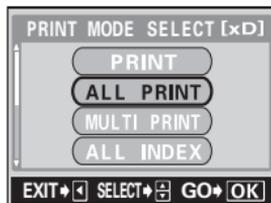
Pressing  during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, press  to select CANCEL, then press .



## ALL PRINT mode

- 1** In the **PRINT MODE SELECT** screen, press to select **ALL PRINT**, then press .

- The print size settings screen is displayed.



- 2** Press to select the paper size, then press .

- The available paper size settings vary depending on the type of printer.
- When the PRINT PAPER screen is not displayed, SIZE and BORDERLESS are set to STANDARD. Go to Step 4.



- 3** Use to select framed or unframed, then press .

OFF () The image is printed inside a blank frame.

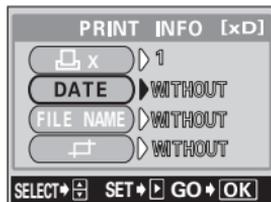
ON () The image is printed filling the entire page.

- The print size settings screen is displayed.



- 4** Press to select the item you want to set, then press .

- Press to select the item, then press .
- If PRINT INFO cannot be set with your printer, go to Step 6.
- The available options vary depending on the type of printer. Items outside the capability of the printer are not available.



**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** .

- The PRINT screen is displayed.

**6 Print the pictures.**

- Press   to select OK or CANCEL, then press .

**OK** Printing starts.

**CANCEL** The settings are canceled and the monitor returns to the PRINT MODE SELECT screen.

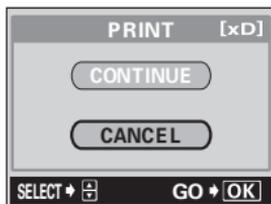


- When printing is finished, the monitor returns to the PRINT MODE SELECT screen.

 "Exiting direct printing" (P.221)

**● To cancel printing**

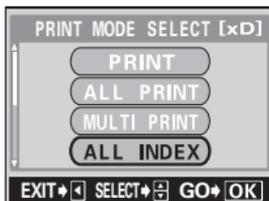
Pressing  during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, press   to select CANCEL, then press .



## ALL INDEX mode/PRINT ORDER mode

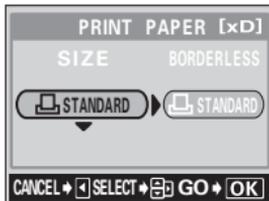
- 1** In the **PRINT MODE SELECT** screen, press to select **ALL INDEX** or **PRINT ORDER**, then press .

- The print size settings screen is displayed.



- 2** Press to select the paper size, then press .

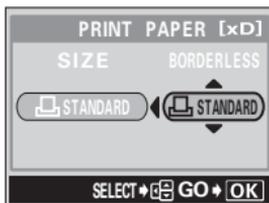
- The available paper size settings vary depending on the type of printer.
- Depending on the selected print mode, SIZE and BORDERLESS cannot be selected.
- When the PRINT PAPER screen is not displayed, SIZE and BORDERLESS are set to STANDARD. Go to Step 4.



- 3** Use to select framed or unframed, then press .

- OFF () The image is printed inside a blank frame.
- ON () The image is printed filling the entire page.

- The print screen is displayed.



- 4** **Print the pictures.**

- Press to select OK or CANCEL, then press .

- OK** Printing starts.
- CANCEL** The settings are canceled and the monitor returns to the PRINT MODE SELECT screen.

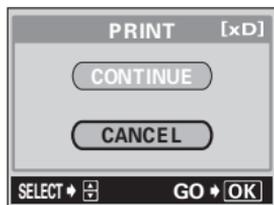


- When printing is finished, the monitor returns to the PRINT MODE SELECT screen.

"Exiting direct printing" (P.221)

## ● To cancel printing

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



Note

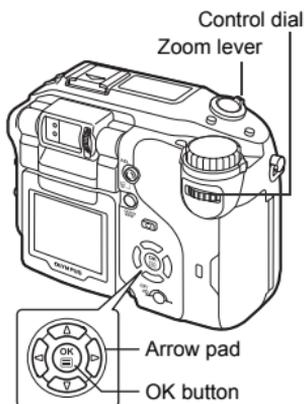
- In All INDEX mode, the printer automatically selects the number of pictures per sheet, etc.
- All INDEX printing is only available on printers with an index function.
- The PRINT ORDER function is only available on DPOF-compatible printers.

## Trim the picture

To set the trim 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 select the trimming frame, and turn the zoom lever toward W or T to decide the trimming size.
- Use the control dial to select the height and width of the trimming frame.
- 3:2 trimming size can be selected when the size of the selected picture is 2592 × 1944, or 2592 × 1728.
- If trimming has already been set, the screen appears. Press to select RESET, then press .

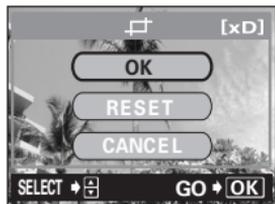


### 2 Press .



### 3 Press to select OK, then 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 setting and return to the PRINT INFO screen.



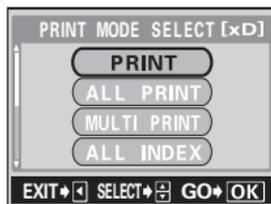
Note

- The size of the printed picture varies depending on the printer settings. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, you are recommended to use the TIFF, SHQ or HQ mode.

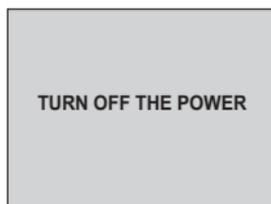
# Exiting direct printing

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

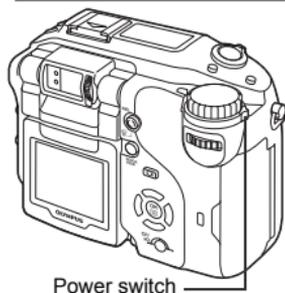
- 1 In the **PRINT MODE SELECT** screen, select .



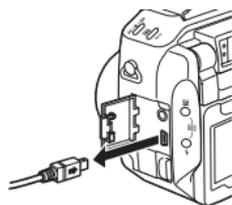
- The message is displayed.



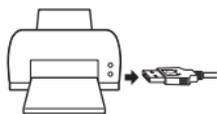
- 2 Turn the camera off.



- 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.
 PRINT ERROR	There is a problem with the printer and/or camera.	Turn off the camera and printer, then turn them on again.
 JAMMED	The paper is jammed.	Remove the jammed paper.

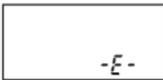
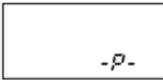
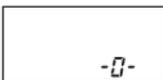


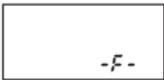
## TIPS

- If an error code other than those shown above is displayed, refer to "Error codes" (P.223).

# 11 Miscellaneous

## Error codes

Control panel	Monitor indication	Possible cause	Corrective action
	 NO CARD	The card is not inserted, or it cannot be recognized.	Insert a card or insert a different card. If the problem persists, format the card. If the card cannot be formatted, it cannot be used.
	 CARD ERROR	There is a problem with the card.	Use a different card. Insert a new card.
	 WRITE-PROTECT	Writing to the card is prohibited.	The recorded image has been protected (read-only) on a PC. Download the image to a PC and cancel the read-only setting.
	 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 PC.
	 NO PICTURE	There are no pictures on the card.	The card contains no pictures. Record pictures.
No indication	 PICTURE ERROR	There is a problem with the selected picture and it cannot be played back on this camera.	Use image processing software to view the picture on a PC. If that cannot be done, the image file is damaged.
	 CARD COVER OPEN	The card cover is open.	Close the card cover.

		The card is not formatted.	Format the card. All data on the card is deleted.
No indication	 FILE SIZE SELECTED TOO LARGE	Files with a volume of 25 MB or over (movies of over approximately 28 seconds in SHQ mode, 75 seconds in HQ mode or 300 seconds in SQ mode) cannot be copied.	Avoid the images listed on the left when copying.
No indication	 ZOOM ERROR	Lens moved due to an external force.	Turn the camera off by turning the power switch to the off position, and turn the camera on again.

# Troubleshooting

## ● Preparatory operations

Possible cause	Corrective action	Ref. Page
The camera does not turn on or function buttons do not respond.		
The power is off.	Turn the power on.	P.33
The battery is exhausted.	Charge the battery.	P.24
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 the zoom lever).	P.34
The camera is connected to a PC.	The camera will not operate while it is connected to a PC.	—

## ● Shooting

Possible cause	Corrective action	Ref. Page
No picture is taken when the shutter button is pressed.		
The battery is exhausted.	Charge the battery.	P.24
The camera is in the playback mode.	Set the mode dial to any position except  .	P.63
The flash has not finished charging.	Remove your finger from the shutter button, and wait until the orange lamp stops blinking. Press the shutter button again.	P.75
The card is full.	Erase unwanted pictures or insert a new card. Before erasing, download important images to a PC.	P.160
The battery ran out of power during shooting or while the images were being written to the card. (The monitor turned off or the battery check indicator on the control panel blinks.)	Charge the battery. (Wait until the card access lamp turns off when flashing.)	P.24

Possible cause	Corrective action	Ref. Page
The memory gauge on the monitor is full.	Wait until there is room in the memory gauge.	P.21
There is a problem with the card.	Refer to "Error codes".	P.223
<b>The viewfinder display is not clear.</b>		
The diopter is not adjusted properly.	Adjust the diopter so that the AF target mark is clearly visible.	P.40
There is condensation* in the viewfinder.	Wait until the camera dries before turning it on again.	—

\* 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.

<b>The monitor is hard to see.</b>		
The brightness is not adjusted properly.	Select  in the mode menu and adjust the brightness.	P.181
The monitor is exposed to direct sunlight.	Position the monitor in the down position or block the sunlight with your hand.	—
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.	—
<b>The date recorded with the image data is wrong.</b>		
The date/time is not set.	Set the date/time. The clock adjustment is not factory-preset.	P.38
The camera has been left with the battery removed.	If the camera is left for about 5 days with the battery removed, the date/time setting is canceled. Set the date/time again.	P.25, 38
<b>The settings are returned to the factory default settings when the camera is turned off.</b>		
All Reset is set to ON.	Select the SETUP tab in the mode menu and set All Reset to OFF.	P.162

Possible cause	Corrective action	Ref. Page
<b>The picture is out of focus.</b>		
The subject is too close.	Position the camera more than 0.2 m/0.7 ft. from the subject and take the picture. To take pictures closer than 0.2 m/0.7 ft., use the super macro mode.	P.103, 104
Auto focus is not possible.	Use manual focus or focus lock to focus on the subject and then shoot.	P.68, 95
The subject is dark.	Turn the AF illuminator on.	P.94
There is condensation* on the lens.	Wait until the camera dries before turning it on again.	—
<b>The monitor goes off.</b>		
The camera is in the sleep mode.	Operate the camera (press the shutter button or the zoom lever).	P.34
The power is turned off with the monitor is off.	If All Reset in the SETUP tab of 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.65, 162
<b>The flash does not fire.</b>		
The flash is set to the flash off mode.	Select a flash mode other than flash off.	P.74
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to fill-in mode.	P.74
Sequential shooting (HI  ,  , AF  , BKT) is set.	The flash does not fire in the sequential shooting mode. Set  in the DRIVE menu.	P.108
The camera is in the movie mode.	The flash does not fire in the movie mode. Set a different shooting mode.	P.70
FUNCTION is set to BLACK/WHITE BOARD.	The flash does not fire in the BLACK/WHITE BOARD mode.	P.116
Super macro mode is set.	The flash does not fire in the super macro mode. Set the super macro mode to OFF.	P.104
Panorama mode is set.	The flash does not fire in the panorama mode. Cancel the panorama mode.	P.111

Possible cause	Corrective action	Ref. Page
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 greatly, the camera may turn off without displaying the battery warning indicator. Charge the battery.	P.21, 24
The green and orange lamps on the right of the viewfinder blink simultaneously.		
The battery is exhausted.	Charge the battery.	P.24

## ● 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.68, 95
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently.	P.41
The flash was set to the flash off mode in a lighting condition requiring use of the flash.	Select a flash mode other than flash off. Camera movement occurs easily with slower shutter speeds. Use a tripod, or set the flash to AUTO.	P.74
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.244
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.74
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.126
The ISO is at a high setting.	Set the ISO to AUTO or to a low sensitivity: 80.	P.125
The aperture value is small in <b>A (M)</b> mode.	Increase the aperture value. Or set the camera to <b>P</b> mode.	P.86
The shutter speed setting is too slow in <b>S (M)</b> mode.	Increase the shutter speed or set the camera to <b>P</b> mode.	P.87

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.41
The subject was out of the working range of the flash.	Shoot within the flash working range.	P.75
The flash was set to the flash off mode.	Select a flash mode other than flash off.	P.74
The subject was too small and was backlit.	Set the flash to fill-in mode, or use the spot metering mode.	P.74, 97
The sequential shooting mode was used.	Higher shutter speeds are used when the sequential shooting mode is selected, which may result in pictures that are darker than usual. Select <input type="checkbox"/> in the DRIVE menu.	P.108
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.126
The aperture value setting is too low in <b>A (M)</b> mode.	Decrease the aperture value or set the camera to <b>P</b> mode.	P.86
The shutter speed setting is too fast in <b>S (M)</b> mode.	Decrease the shutter speed or set the camera to <b>P</b> mode.	P.87
The colors of pictures look unnatural.		
Indoor lighting can affect the picture's colors.	Set the white balance according to the lighting.	P.128
No white in the picture.	Include something white in the picture, or shoot using the fill-in flash mode.	P.74
The white balance setting is wrong.	Adjust the white balance according to the light source.	P.128
Filter was used.	The image may be discolored according to the filter used. Use the one-touch white balance function.	P.128

Possible cause	Corrective action	Ref. Page
<b>Part of the picture is too dark</b>		
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.41
<b>Halation produces unnatural colors in the picture.</b>		
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.	<ul style="list-style-type: none"> <li>• Use a specified UV filter. As this may upset the overall color balance, it should only be used in the conditions described on the left.</li> <li>• Process the picture using a graphics application (Photoshop, Paint Shop Pro, etc.). For example, after picking up unnatural colors with a syringe tool, etc. you can select color areas, and try color conversion or saturation adjustment. For details, refer to the manual for the graphics application you are using.</li> </ul>	—
<b>Pictures you have taken do not appear on the monitor.</b>		
The power is off.	Set the mode dial to  , then turn the power on.	P.139
The camera is in the shooting mode.	Press the QUICK VIEW button or set the mode dial to  .	P.139, 140
There are no pictures on the card.	NO PICTURE appears on the monitor. Record pictures.	—
There is a problem with the card.	Refer to "Error codes".	P.223
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P.152
<b>Single-frame erase and all-frame erase cannot be performed.</b>		
The pictures are protected.	Display pictures with  and press  to cancel protection.	P.159
<b>No picture is displayed on the TV when connected to the camera.</b>		
The video output signal is incorrect.	Set the video output signal according to the region where used.	P.194
The TV video signal setting is incorrect.	Set the TV to the video input mode.	P.152

Possible cause	Corrective action	Ref. Page
The monitor is hard to see.		
The brightness is not adjusted properly.	Select  in the mode menu and adjust the brightness.	P.181
The monitor is exposed to direct sunlight.	Position the monitor in the down position or block the sunlight with your hand.	—

**● When the camera is connected to a PC or Printer.**

Possible cause	Corrective action	Ref. Page
The camera is not recognized by the PC.		
The USB driver cannot be installed	It is necessary to install the USB driver for Windows 98/98SE. For how to install, see "DIGITAL CAMERA-PC CONNECTION OPERATION MANUAL" on the CD-ROM.	—
The power of the camera has not been turned on.	Turn the power switch to ON and turn on the camera.	P.33

# List of menus

● P, A, S, M, , , , , , mode

Top menu	Tab	Function	Setting	Ref. Page	
MODE MENU	CAMERA	DRIVE*1	HI  ,  , AF  BKT	P.108	
		ISO	AUTO, 80, 100, 200, 400	P.125	
		MY MODE*2	MY MODE 1 to MY MODE 8	P.90	
		FLASH	IN+ ,  , SLAVE	P.81	
		SLOW	SLOW1, SLOW,  SLOW2	P.79	
		NOISE REDUCTION*3	OFF, ON	P.137	
		DIGITAL ZOOM	OFF, ON	P.73	
		FULLTIME AF	OFF, ON	P.92	
		AF MODE	iESP, SPOT	P.91	
		ACCESSORY	OFF,  ,	P.119	
		(for still pictures)	OFF, ON	P.117	
		PANORAMA*4		P.111	
		2 IN 1		P.113	
		FUNCTION	OFF, BLACK & WHITE, SEPIA, WHITE BOARD, BLACK BOARD	P.116	
		*5	OFF,  ON, ON, DIRECT	P.176	
			OFF, ON, FRAME ASSIST	P.114	
		iREAL*6	OFF, ON	P.89	
		PICTURE		RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.120
			WB	AUTO, PRESET 1, PRESET 2, CUSTOM,	P.128
	WB		AUTO, PRESET 1, PRESET 2,	P.133	
	CUSTOM WB		CUSTOM 1, CUSTOM 2, CUSTOM 3, CUSTOM 4	P.130	
	SCENE MODES*3		NORMAL,  ,  , 	P.137	
	SHARPNESS		-5 to +5	P.134	
	CONTRAST		-5 to +5	P.135	
	SATURATION		-5 to +5	P.136	
	CARD		CARD SETUP	YES, NO	P.173

To the next page

**● P, A, S, M, , , , , ,  mode (cont.)**

Top menu	Tab	Function	Setting	Ref. Page
MODE MENU	SETUP	ALL RESET*7	OFF, ON	P.162
		EV STEP	1/3EV, 1/2EV	P.174
			ENGLISH, FRANCAIS, DEUTSCH, ESPAÑOL, ITALIANO, РУССКИЙ, PORTUGUES, 日本語	P.36
		PW ON SETUP	SCREEN, SOUND	P.188
		PW OFF SETUP	SCREEN, SOUND	P.188
		REC VIEW	OFF, ON	P.182
			OFF, LOW, HIGH	P.184
		BEEP	OFF, 1, 2	P.185
		SHUTTER SOUND	OFF, 1, 2	P.186
		MY MODE SETUP	PRESENT, RESET, CUSTOM	P.170
		FILE NAME	RESET, AUTO	P.191
		PIXEL MAPPING		P.192
				P.181
				P.38
		m/ft	m, ft	P.193
		VIDEO OUT	NTSC, PAL	P.194
		SHORTCUT	A, B, C	P.167
		CUSTOM BUTTON		P.164
		DUAL CONTROL PANEL	OFF, ON	P.179
		AF ILLUMINATOR	OFF, ON	P.94
		USB	PC, PRINT	P.197
		(DRIVE)		Functions registered in the shortcut menus.
				
(WB)				

\*1 Cannot be selected in  mode.

\*2 Can be selected only in  mode.

\*3 Cannot be selected in     mode.

\*4 Cannot be selected in **A S M** mode.

\*5 Cannot be selected in **M** mode.

\*6 Can be selected only in **M** mode.

\*7 Cannot be selected in  mode.

 mode

Top menu	Tab	Function	Setting	Ref. Page
MODE MENU	CAMERA	ISO	AUTO, 80, 100, 200, 400	P.125
		DIGITAL ZOOM	OFF, ON	P.73
		FULLTIME AF	OFF, ON	P.92
		ACCESSORY	OFF,  , 	P.119
		FUNCTION	OFF, BLACK & WHITE, SEPIA	P.116
	PICTURE		AUTO, PRESET1, PRESET2, 	P.133
		SCENE MODES	NORMAL,  ,  , 	P.137
		SHARPNESS	-5 to +5	P.134
		CONTRAST	-5 to +5	P.135
		SATURATION	-5 to +5	P.136
		CARD SETUP	CARD SETUP	YES, NO
	CARD SETUP	ALL RESET	OFF, ON	P.162
		EV STEP	1/3EV, 1/2EV	P.174
			ENGLISH, FRANCAIS, DEUTSCH, ESPAÑOL, ITALIANO, РУССКИЙ, PORTUGUES, 日本語	P.36
		PW ON SETUP	SCREEN, SOUND	P.188
		PW OFF SETUP	SCREEN, SOUND	P.188
			OFF, LOW, HIGH	P.184
		BEEP	OFF, 1, 2	P.185
		FILE NAME	RESET, AUTO	P.191
		PIXEL MAPPING		P.192
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		 (movies)		
				SHQ, HQ, SQ P.120
WB			AUTO, PRESET 1, PRESET 2, CUSTOM,  P.128	

## ● mode (still pictures)

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			OFF, ON, DIRECT	P.176
		FRAME ASSIST	OFF, ON	P.183
	EDIT	RAW DATA EDIT		P.157
			WB,  , SCENE MODES, SHARPNESS, CONTRAST, SATURATION, FUNCTION, TRIMMING	
			640 × 480, 320 × 240, CANCEL	P.155
			NEW FILE, CANCEL	P.155
		COPY	ALL, SELECT	P.158
	CARD	CARD SETUP	 ALL ERASE,  FORMAT	P.161, 173
	SETUP	ALL RESET	OFF, ON	P.162
			ENGLISH, FRANCAIS, DEUTSCH, ESPAÑOL, ITALIANO, РУССКИЙ, PORTUGUES, 日本語	P.36
		PW ON SETUP	SCREEN, SOUND	P.188
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		SCREEN SETUP	PW ON, PW OFF	P.189
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			OFF, LOW, HIGH	P.184
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		VIDEO OUT	NTSC, PAL	P.194
			4, 9, 16	P.144
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		INFO		P.145
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●  mode (movies)

Top menu	Tab	Function	Setting	Ref. Page
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		CARD	CARD SETUP	 ALL ERASE,  FORMAT
	SETUP	ALL RESET	OFF, ON	P.162
			ENGLISH, FRANCAIS, DEUTSCH, ESPAÑOL, ITALIANO, РУССКИЙ, PORTUGUES, 日本語	P.36
		PW ON SETUP	SCREEN, SOUND	P.188
		PW OFF SETUP	SCREEN, SOUND	P.188
		VOLUME		P.187
			OFF, LOW, HIGH	P.184
		BEEP	OFF, 1, 2	P.185
				P.181
				P.38
		VIDEO OUT	NTSC, PAL	P.194
			4, 9, 16	P.144
		USB	PC, PRINT	P.197
		MOVIE PLAY	MOVIE PLAYBACK	PLAYBACK, FRAME BY FRAME, EXIT
INDEX	OK, RESET, CANCEL		P.148	
EDIT	OK, RESET, CANCEL		P.150	
INFO			P.175	

# List of factory default settings

The menu functions are set to the following default settings at the time of purchase.

## ● Shooting mode

FNo	F2.8
Program shift	Reset
SHUTTER	1/1000 sec.
Zoom	WIDE
LCD	ON
CARD	xD
	0.0
FLASH	Auto ( <b>S M</b> :  SLOW,  : Flash off)
	0.0
METERING	ESP
AF/  /MF	AF
AF target mark	Center
Target mark	Center
Histogram target mark	Center
	OFF
DRIVE	
<b>BKT</b>	±1.0, × 3
ISO	AUTO ( <b>A S M</b> : 80)
MY MODE	MY MODE 1
 FLASH	IN+ 
SLAVE	1
 SLOW	 SLOW1
NOISE REDUCTION	OFF (  : fixed on ON)
DIGITAL ZOOM	OFF
FULLTIME AF	OFF
AF MODE	iESP
ACCESSORY	OFF
	OFF
 (movie)	ON

PANORAMA	OFF
2 IN 1	OFF
FUNCTION	OFF
	OFF
	OFF
 REAL	OFF
	HQ (2592 × 1944,  : 320 × 240)
TIFF	2592 × 1944
SHQ	2592 × 1944
HQ	2592 × 1944
SQ1	1600 × 1200 NORMAL
SQ2	640 × 480 NORMAL
WB	AUTO
	No compensation
CUSTOM WB	Not registered
SCENE MODES	NORMAL
SHARPNESS	±0
CONTRAST	±0
SATURATION	±0
EV STEP	1/3EV
REC VIEW	ON
SHUTTER SOUND	1-LOW
FILE NAME	RESET
m/ft	m
SHORT CUT	A: DRIVE, B:  , C: WB
CUSTOM BUTTON	DRIVE
DUAL CONTROL PANEL	OFF
AF ILLUMINATOR	ON

## ● Playback mode

INFO	OFF
FRAME ASSIST	OFF
 OFF	OFF
 0°	0°
 OFF	OFF
 OFF	OFF
COPY	ALL
VOLUME	3
 9	9

## ● Others

ALL RESET	ON
 ENGLISH	ENGLISH
PW ON SETUP	1
PW OFF SETUP	1
 LOW	LOW
BEEP	1-LOW
 NORMAL	NORMAL
 Y-M-D 2003/01/01 00:00	Y-M-D 2003/01/01 00:00
VIDEO OUT	*
USB	PC

\* Setting differ according to the region where the camera is sold.

# List of items by shooting mode

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

Mode		P	A	S	M		
Function							
Zoom				✓			
DIGITAL ZOOM				✓			
AF MODE				✓			—
FULLTIME AF				✓			
AF target mark				✓			—
AF ILLUMINATOR				✓			—
Manual focus				✓			—
Flash	AUTO	✓		—		✓	—
		✓		—		✓	—
		✓		—		✓	—
	 SLOW1			✓			—
	  SLOW1	✓		—		✓	—
	 SLOW2			✓			—
				✓			—
			✓			—	
 SLOW			✓			—	
			✓			—	
			✓			—	
MULTI 		✓		—		✓	—
				✓			—
Metering target				✓			—
AE LOCK		✓		—		✓	—
				✓			—
s 				✓			—
s  MF				✓			—
				✓			—
HI  ,  , AF 				✓ <sup>*1</sup>			—
BKT		✓		—		✓ <sup>*1</sup>	—

Function		Mode						
		P	A	S	M			
PANORAMA		✓		—			✓	—
2 IN 1					✓			—
FUNCTION	BLACK & WHITE				✓			
	SEPIA				✓			
	WHITE BOARD				✓			—
	BLACK BOARD				✓			—
					✓			—
i-REAL			—		✓		—	
ACCESSORY					✓			
			✓		—		✓	—
Histogram target mark			✓		—		✓	—
					✓			—
Microphone (movie)					—			✓
					✓			
ISO					✓			
			✓		—		✓	
WB					✓			
					✓			
CUSTOM WB					✓			—
SHARPNESS					✓			
CONTRAST					✓			
SATURATION					✓			
SCENE MODES			✓				—	✓
NOISE REDUCTION			✓				—	
ALL RESET					✓ <sup>2</sup>			
EV STEP					✓			
					✓			

Mode Function	P	A	S	M		
PW ON SETUP				✓		
PW OFF SETUP				✓		
REC VIEW				✓		—
 ))				✓		
SHUTTER SOUND				✓		—
BEEP				✓		
MY MODE				✓		—
FILE NAME				✓		
PIXEL MAPPING				✓		
				✓		
				✓		
m/ft				✓		
VIDEO OUT				✓		
SHORT CUT				✓		—
CUSTOM BUTTON				✓		—
DUAL CONTROL PANEL				✓		
USB				✓		

✓: Available    — : Not available

\*1 Cannot be selected in  mode

\*2 Cannot be selected in  mode.

# Camera maintenance

## ● After use

Turn off the power, close the monitor with it facing inside, and fit the lens cap on the lens.

If you do not intend to use the camera for a long period, remove the battery.

## ● Cleaning the camera

**1 Turn off the camera.** (☞ P.34)

**2 Remove the battery** (☞ P.26). (If you are using an AC adapter, unplug the AC adapter from the camera first before removing the plug from the AC outlet.)

**3 Exterior:**

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

**Monitor and viewfinder:**

→ Wipe gently with a soft cloth.

**Lens**

→ Blow dust off the lens with a commercially available blower, then wipe gently with a lens cleaner.

**Card**

→ Wipe gently with a soft, dry cloth.

## ● Storage

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

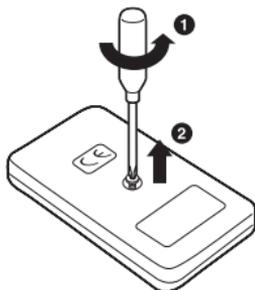


Note

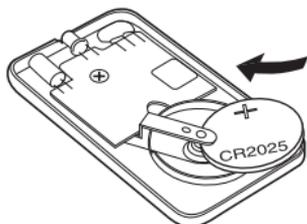
- Do not use strong solvents such as benzene or alcohol, or chemically treated cloth.
- Cleaning should be done only after the battery has been removed or the AC adapter has been disconnected.
- Mold may form on the lens surface if the lens is left dirty.
- Avoid leaving the camera in places where chemical products are handled since this may result in corrosion.

## How to replace the battery (CR2025) of the remote control device

- 1** Turn the screw on the bottom of the remote control device counterclockwise to loosen.



- 2** Turn the remote control device over, and remove the cover. With the battery facing up, remove the old battery and insert a new battery (CR2025) as shown.



- 3** Replace the cover, turn the remote control device over, and turn the screw on the bottom clockwise to tighten.



Note

- Do not apply excessive force to the remote control device.
- Never heat the remote control device or dispose of it in fire.
- The working temperature range for the remote control can be used is -10°C to 40°C (14°F to 104°F).

# Specifications

- Product type : Digital camera (for shooting and displaying)
- Recording system
- Still pictures : Digital recording, TIFF (non-compression), JPEG (in accordance with Design rule for Camera File system (DCF)), RAW data
  - Applicable standards : Exif 2.2, Digital Print Order Format (DPOF), PRINT Image Matching II, PictBridge
  - Sound with still pictures : Wave format
  - Movie : QuickTime Motion JPEG support
- Memory : xD-Picture Card (16 – 512MB), CompactFlash, Microdrive<sup>\*</sup>  
<sup>\*</sup>340 MB Microdrive cannot be used.
- Recording image resolution : 3264 × 2448 pixels (ENLARGE SIZE SHQ, HQ)  
2592 × 1944 pixels (RAW, TIFF, SHQ, HQ)  
2592 × 1728 pixels (3:2 TIFF, SHQ, HQ)  
2288 × 1712 pixels (TIFF, SQ1)  
2048 × 1536 pixels (TIFF, SQ1)  
1600 × 1200 pixels (TIFF, SQ1)  
1280 × 960 pixels (TIFF, SQ2)  
1024 × 768 pixels (TIFF, SQ2)  
640 × 480 pixels (TIFF, SQ2)
- No. of storable pictures
- When a 32 MB card used (without sound) : Approx. 4 frames (RAW: 2592 × 1944)  
Approx. 2 frames (TIFF: 2592 × 1944)  
Approx. 8 frames (SHQ: 2592 × 1944)  
Approx. 25 frames (HQ: 2592 × 1944)  
Approx. 64 frames (SQ1: 1600 × 1200 NORMAL)  
Approx. 331 frames (SQ2: 640 × 480 NORMAL)
- No. of effective pixels : 5,100,000 pixels
- Image pickup device : 1/1.8" CCD solid-state image pickup, 5,260,000 pixels (gross)
- Lens : Olympus lens 5.7 mm to 22.9 mm, f2.8 to f4.8, 8 elements in 7 groups (equivalent to 27 mm to 110 mm lens on 35 mm camera)
- Filter : Olympus filter

Photometric system	: Digital ESP metering, spot metering system, center-weighted metering system
Aperture	: f2.8 to f8.0
Shutter speed	: 15 to 1/2000 sec. (f8.0: max 1/4000 sec.) (bulb mode: max. 120 sec.)
Shooting range	: 0.8 m (2.6 ft.) to $\infty$ (normal) 0.2 m to 0.8 m (0.7 ft. to 2.6 ft.) (macro mode)
Viewfinder	: Optical real image viewfinder
Monitor	: 1.8" TFT color LCD display, 130,000 pixels
Autofocus	: Dual autofocus Contrast detection system, Phase-difference detection system
Outer connector	: DC-IN jack, USB connector (mini-B), A/V OUT jack
Automatic calendar system	: 2000 up to 2099
Operating environment	
Temperature	: 0°C to 40°C (32°F to 104°F) (operation) -20°C to 60°C (-4°F to 140°F) (storage)
Humidity	: 30% to 90% (operation)/10% to 90% (storage)
Power supply	: Only an Olympus BLM-1 lithium-ion battery AC adapter specified by Olympus (optional)
Dimensions	: 116 mm (W) × 87 mm (H) × 65.5 mm (D) (4.6" × 3.4" × 2.6") (excluding protrusions)
Weight	: Approx. 430 g (0.9 lb.) (without battery and card)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE OR OBLIGATION ON THE PART OF THE MANUFACTURER.

# 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's built-in exposure meter automatically sets the exposure. The 3 AE modes available on this camera are **P** mode, in which the camera selects both the aperture and shutter speed, **A** mode, in which the user selects the aperture and the camera sets the shutter speed, and **S** mode, in which the user selects the shutter speed and the camera sets the aperture. In **M** mode, the user selects both the aperture and the shutter speed.

## **Aperture**

The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

## **Backlight**

A light source to illuminate the monitor from behind the screen.

## **CCD (Charge-Coupled Device)**

This converts light passing through the lens into electrical signals. On this camera, light is picked up and converted into RGB signals to build a single image.

## **Contrast Detection Method**

This is used to measure the distance to the subject. The camera determines if the image is focused by the level of contrast in the subject.

## **Conventional Photograph**

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography). This system is in contrast to still video and digital photography.

## **DCF (Design rule for Camera File system)**

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

## **Digital ESP (Electro-Selective Pattern) Light Metering**

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

## **DPOF (Digital Print Order Format)**

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can easily have the desired images printed by a printer or print lab that supports the DPOF format.

## **Dual Auto Focus**

An auto focus system that uses two different focus detection systems in combination. This camera uses the CCD's contrast detection system in combination with the specified sensor's phase difference detection system, nullifying the shortcoming of each system.

## **Eclipsing (Vignetting)**

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

## **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).

## **Flash Bracket**

A mount used to attach an external flash to the camera. Shadows on the subject can be changed by detaching the flash. The flash is used in combination with the flash cable.

## **ISO**

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "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 color 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.

## **Phase-difference Detection System**

This system measures the distance to the subject. The distance is calculated by the difference in the image of the subject captured by a pair of sensors.

## **Pixels**

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

## **Resolution**

The size of an image expressed by the number of pixels that make up the image. For instance, a picture taken in 640 x 480 resolution is the same size as the screen when the monitor setting is 640 x 480. However, if the monitor setting is 1024 x 768, the picture only takes up part of the screen.

## **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.

## **Slave Flash**

A wireless flash that is not connected to the camera by a synchronization cord. It flashes in phase with the flash on the camera and can be used for lighting techniques, such as changing the way shadows are cast on a subject.

**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 get out of the sleep mode, use any button on the camera (shutter button, arrow pad, etc.).

**Synchro Terminals**

Terminals on an external flash unit for connecting it to the camera.

**TIFF (Tagged Image File Format)**

An uncompressed 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.

**TFT (Thin-Film Transistor) Color Monitor**

A transistor color monitor constructed using thin-film technology.

**TTL (Through-The-Lens) System**

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

**TTL-AUTO**

For use with an external flash. Light emitted by the flash is measured by the light receptor in the camera as it passes through the lens. A signal is then sent to adjust the external flash intensity.

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# OLYMPUS

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for Austria, Belgium, Denmark, Finland, France, Germany, Italy, Luxemburg,  
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom

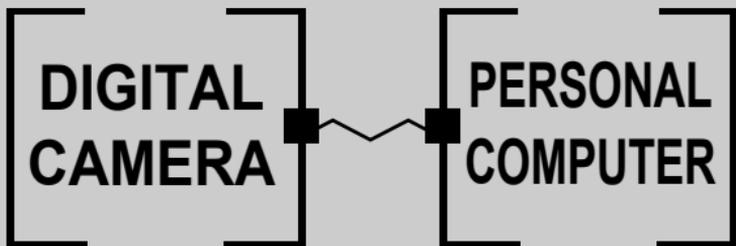
\* Please note some (mobile) phone services/provider do not permit access or  
request an additional prefix to +800 numbers.

For all not listed European Countries and in case that you can't get connected  
to the above mentioned number please make use of the following

**CHARGED NUMBERS: +49 180 5 - 67 10 83 or +49 40 - 237 73 899**

Our Technical Customer Support is available from 9 am to 6 pm MET (Monday to Friday)

# CAMEDIA



DIGITAL CAMERA — PC CONNECTION  
**OPERATION MANUAL**

How to use your PC to get the most from images taken with your digital camera.

- Thank you for purchasing an Olympus digital camera.
- This manual provides instructions on how to install the USB driver. To ensure correct installation, refer only to these installation procedures.

# Introduction

This manual explains in detail how to connect your Olympus digital camera to a computer. Read it carefully and keep it in a safe place for future reference.

## **About this manual**

- The information contained in this manual may be subject to change without notice. For the latest information on the product, please consult your local Olympus representative.
- The information contained in this manual has been compiled by taking all possible measures to ensure its accuracy. However, if you find any errors or incomplete information, please contact your local Olympus representative.
- It is prohibited by copyright laws to duplicate in part or in whole the information contained in this manual, except for personal use. Reproduction without permission of the copyright owner is prohibited.
- The PC screens shown in this manual may differ slightly from the actual displays on some PC models.

## **Trademarks**

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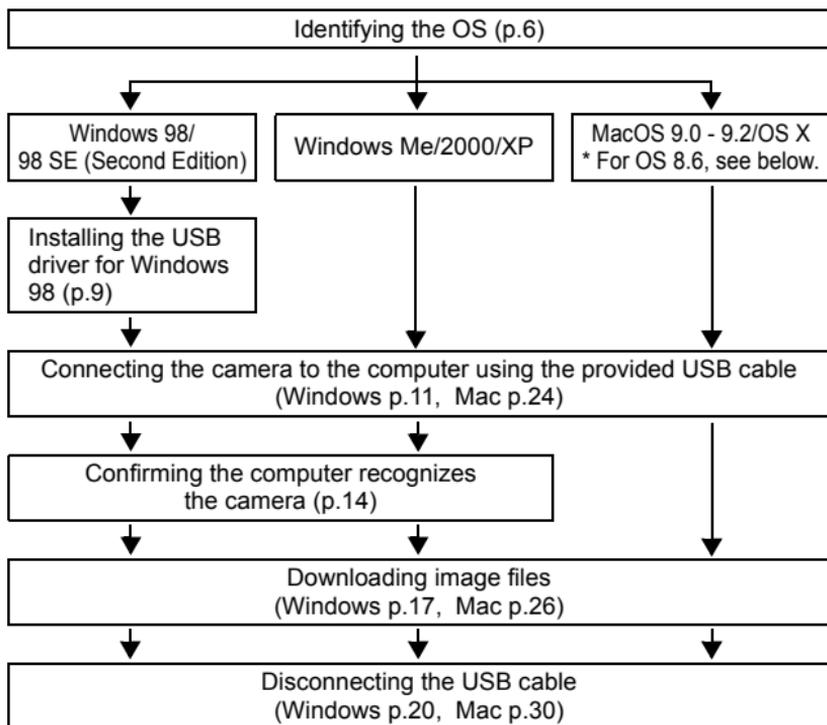
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# Flowchart

By connecting the camera to a computer with the provided USB cable, images on a card can be transferred to the computer. Some OS's (operating systems) may need a special setup before connecting to the camera for the first time. Follow the chart below.

**For details, see the Olympus Corporate Site or phone customer support.**



\* Even if your computer has a USB connector, data transfer may not function correctly if you are using one of the operating systems listed below or if you have an add-on USB connector (extension card, etc.).

- Windows 95/NT 4.0
- Windows 98/98 SE upgrade from Windows 95
- Mac OS 8.6 or lower (except Mac OS 8.6 equipped with USB MASS Storage Support 1.3.5 installed at the factory)
- Data transfer is not guaranteed on a home-built PC system or PCs with no factory installed OS.



- When connecting the camera to the computer, make sure that there is sufficient remaining battery power. When connected (transmitting) to the computer, the camera does not enter the sleep mode nor will the camera's power turn off automatically. Depending on the camera model, when the battery power runs out or the internal temperature rises, the camera may stop operating automatically. This could cause the computer to malfunction, and any image data (file) being transmitted may be lost. Be careful when downloading files for a long period of time. Use the AC adapter (optional) when downloading files.
- If you connect or disconnect the AC adapter when the camera is connected to the computer and is running on battery power, it may result in the loss of image data on the card or cause a malfunction in the computer. Before connecting or disconnecting the AC adapter, disconnect the camera from the computer and make sure that the camera is turned off.
- To avoid computer malfunctions, do not turn off the camera when the camera is connected to a computer.
- If the camera is connected to the computer via a USB hub, operation may not be stable if there are any compatibility problems between the computer and the hub. In such cases, do not use the hub and connect the camera directly to the computer.



- You can view images using: graphics applications that support the JPEG file format (Paint Shop Pro, Photoshop, etc.); Internet browsers (Netscape Communicator, Microsoft Internet Explorer, etc.); CAMEDIA Master software; or other software. For details on using commercial graphics applications, refer to their instruction manuals.
- QuickTime is needed for playing back movies. QuickTime is included on the provided software CD.
- If you want to process images, make sure to download them to your computer first. Depending on the software, image files may be destroyed if the images are processed (rotated, etc.) while they are on the card.

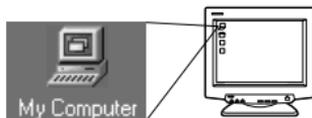
# Identifying the OS

Identify the OS on your computer before connecting the camera. How to identify the OS depends on the computer.

## ● Windows

- 1** Double-click the “My Computer” icon on your desktop.

When the “My computer” icon is not on your desktop, click “Control Panel” from the “Start” menu.



- 2** Double-click the “Control Panel” icon.



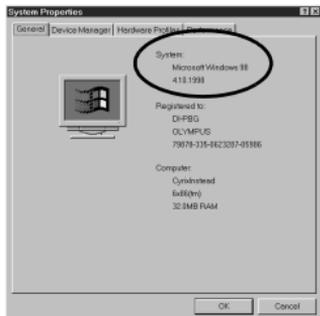
- 3** Double-click the “System” icon.



The way the file icons inside the folder appear may vary depending on your version of Windows. If you don't see the icon you are looking for, click on “view all Control Panel options” on the left of the window.

#### 4 A System Properties window will appear. Note and record the “System:” information.

Confirm that your system is Windows 98, 98 SE, Me, 2000 Professional or Windows XP, then press “OK” to close the window.



If your OS is Windows 98/98 SE, proceed to “Installing the USB driver for Windows 98” (👉 p.9).

Users running Windows Me/2000/XP 👉 p.11

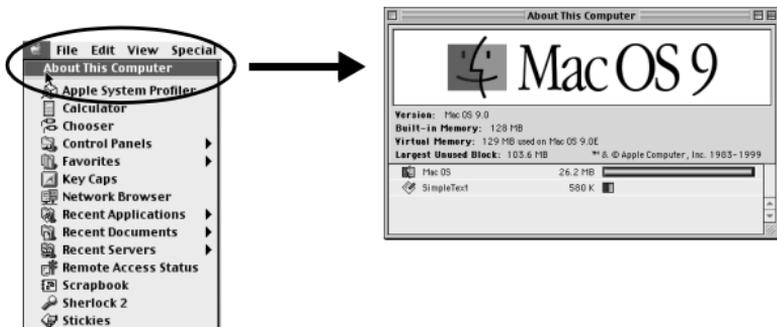
Users running other OS 👉 p.31

## ● Mac OS (Macintosh)

Select “About This Computer” from the Apple menu on the menu bar.

A window appears with the name of the computer’s OS.

Confirm that the OS is OS 9.0-9.2 or OS X.



Users running Mac OS 9/X 👉 p.23

Users running other OS 👉 p.31

# Windows

## Using Windows 98/Me/2000/XP

### Make sure that:

- Your computer is turned on and Windows is running.
- If you are running any applications, quit them all.
- You are recommended to power the camera using the optional AC adapter. If the battery power runs out while the computer is accessing the card in the camera, the camera will turn off in the middle of the operation and this could destroy image files (data). If you are using batteries, make sure that there is sufficient remaining battery power.

<b>Installing the USB driver for Windows 98 (When using Windows 98/98 SE) .....</b>	<b>9</b>
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<b>Downloading images to your computer.....</b>	<b>17</b>
<b>Disconnecting the camera from your computer .....</b>	<b>20</b>

# Installing the USB driver for Windows 98 (When using Windows 98/98 SE)

If your OS is Windows 98/98 SE, you must install the USB driver. Follow the instructions below to install the USB driver in your computer. Once it is fully installed, you do not need to repeat the procedure again.

**If your OS is Windows Me/2000/XP, you do not need to install the USB driver.** Proceed to “Connecting the camera to the computer” (☞ p.11).

- 1** Insert the provided software CD into your CD-ROM drive.



- 2** The Olympus Windows Installer should automatically launch. Click “USB Driver”.

If the USB driver is already installed in your computer, this option will not appear.

- This option will not appear if you are using Windows Me/2000/XP.



If the installer is not automatically launched, select “Run..” on the “Start” menu and then execute “(drive letter):/ Information.exe”.



The drive letter of the CD-ROM varies depending on the computer.  
To identify the drive letter, double-click “My Computer” on the desktop.

- 3** Click “Continue”. The installation of the USB driver will start.



- 4** Click “OK” to restart your computer and the installation is complete.

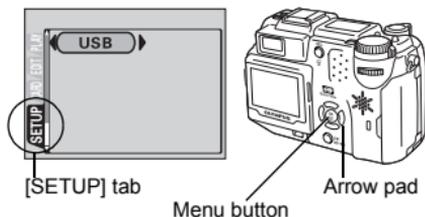


- 5** When the computer has restarted, installation is complete. If the Olympus Windows Installer screen appears, click “Close” and remove the CD-ROM from the CD-ROM drive.

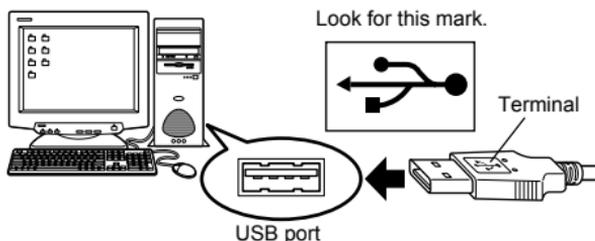
# Connecting the camera to the computer

Users running Windows 98/98SE need to install the USB drive before connecting the camera to your computer for the first time. (☞ p.9)

- 1** Some camera models have a “USB” setting in the menu. Make sure that “PC” is selected before connecting. This is not required if your camera does not have this setting. For details on how to operate the menu, refer to your camera's reference manual.



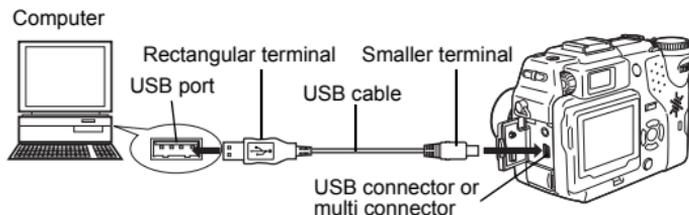
- 2** Insert the marked end of the provided USB cable into the USB port on your computer as shown below.



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

- 3** After making sure that the camera is turned off, connect the end of the USB cable to the USB connector on the camera.

The location of the USB connector or multi connector varies depending on the camera model. Refer to the camera manual for details.

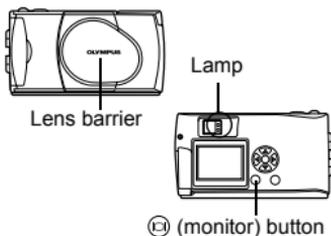


## 4 Turn the camera on.

### ● Camera with a lens barrier

The power turns on automatically, with the exception of some models which require you to press the  (monitor) button.

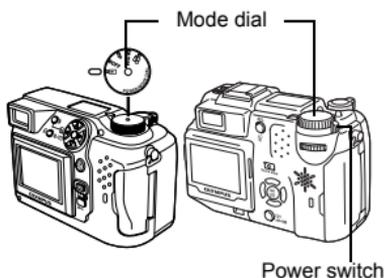
When the camera is turned on, the lamp on the right of the viewfinder lights up.



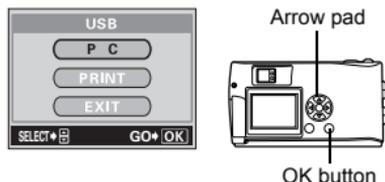
### ● Camera with a mode

Set the mode dial to .

(If the camera has a power switch as well as a mode dial, turn the power switch to ON.)



## 5 Some camera models display this screen (shown right) on the monitor. When this screen appears, use the arrow pad to select "PC" and press the OK button.



## 6 The computer recognizes the camera as a new device.

When you connect the camera to the computer for the first time, the computer automatically recognizes the camera. Click "OK" when the message saying that the installation is completed appears. The computer recognizes the camera as a "Removable Disk".

● **Windows XP**

You can download image files from the camera easily. Select “Copy pictures to folder on my computer using Microsoft Scanner and Camera Wizard”, then follow the on-screen instructions. You may also select “take no action” to bypass the Microsoft Scanner and Camera Wizard. You may then use a more advanced image viewing/editing program such as Olympus CAMEDIA Master software. For detailed instructions on downloading, refer to the CAMEDIA Master software user’s guide.



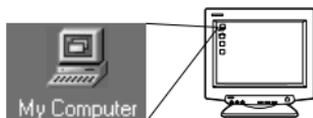
Caution

---

When the camera is connected to the computer, none of the camera buttons are functional.

# Confirming the computer recognizes the camera

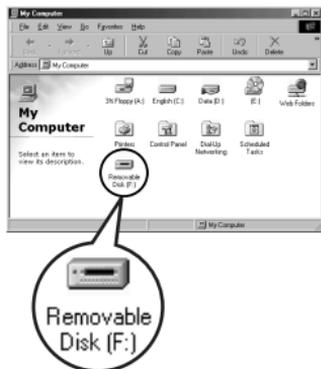
- 1 Double-click the “My Computer” icon on the desktop.**  
For users running Windows XP, click “My Computer” from the “Start” menu.



- 2 Make sure the “Removable Disk” icon appears in the window.**

There may already be other “Removable Disk” icons for other devices, such as a removable media drive or USB SmartMedia Reader/Writer. In this case, the digital camera is recognized as another “Removable Disk”.

If you cannot find the icon, the camera and computer are not connected properly. Turn the camera off, disconnect the camera from the computer and connect again, or proceed to “Confirming the USB driver is installed” (p.15) to make sure that the USB driver is fully installed.



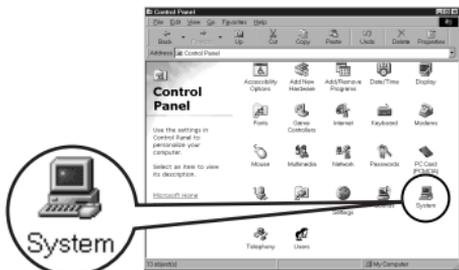
# Confirming the USB driver is installed

If the computer does not recognize the camera as a Removable Disk, follow the procedure below to check whether the USB driver has been fully installed.

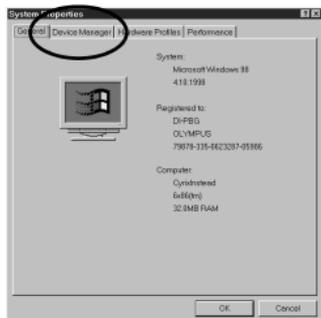
- 1** Open “My Computer” and double-click the “Control Panel” icon.  
For users running Windows XP, open “Control Panel” from the “Start” menu.



- 2** Double-click the “System” icon.



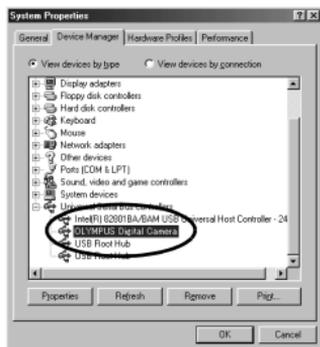
- 3** The System window will appear. Click the “Device Manager” tab.



#### 4 Confirm that “OLYMPUS Digital Camera” is in the “Universal Serial Bus Controller” category.

If you cannot find the “OLYMPUS Digital Camera”, turn the camera off, disconnect the camera from the computer and start again.

Users running Windows 98/98 SE start again from “Confirming the USB driver is installed”, and Users running Window Me/2000/XP start from “Connecting the camera to the computer”.



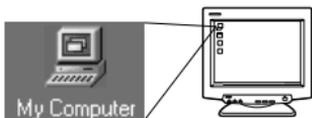
#### Note

If the USB driver was successfully installed, you can find the following in the “Device Manager”.

- the name of the camera you have connected listed under “Disk drives”
- “OLYMPUS Digital Camera” listed as one of the items in the “Universal Serial Bus Controller” category

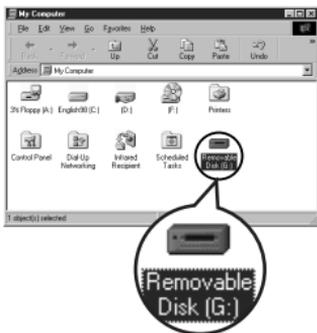
# Downloading images to your computer

- 1** Double-click the “My Computer” icon on the desktop.  
For users running Windows XP, click “Control Panel” from the “Start” menu.



- 2** Double-click the “Removable Disk” icon.

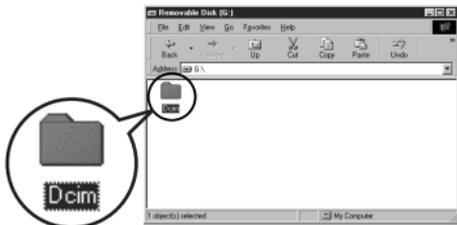
A new “Removable Disk” icon appears when the camera is connected to the computer, as the digital camera is recognized as a “Removable Disk”.



If an error message appears when you double-click the icon, there may be a problem with one of the following:

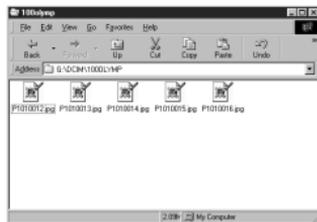
- ① the camera's power source (the AC adapter is not properly connected or the battery power is low)  
Make sure that the AC adapter is correctly connected or that the batteries are not running low.
- ② the card (there is no card in the camera or there is a problem with the card)  
Check that you can play back pictures stored on the card on the monitor of your digital camera.

- 3** Double-click the “Dcim” folder.

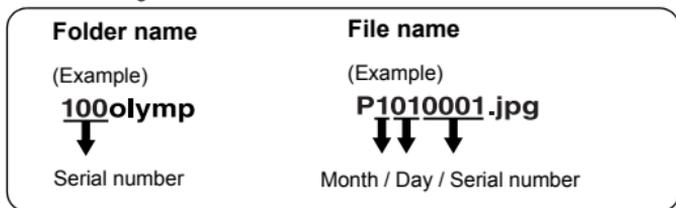


#### 4 Double-click the “100olymp” folder.

Image files (JPEG files) with file names such as “P1010001.jpg” are displayed.



- The camera automatically assigns folder names and file names according to the following rules.



- Serial numbers of image files run from 0001 to 9999.
- Serial numbers of folders run from 100 to 999.
- When file number 9999 is reached, a new folder is created and assigned the next number.
- Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

#### 5 Double-click the “My Documents” icon on the desktop.

If you cannot find the icon on the desktop, select “Explorer” on the Start menu and double-click the “My Documents” icon.

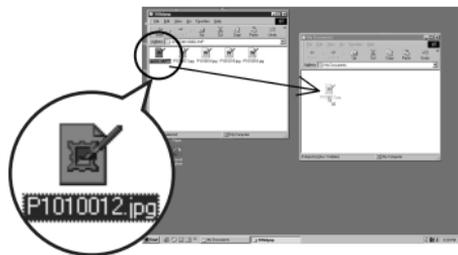


The “My Documents” window is displayed.



- 6** Drag & drop the image you want to save in the computer (in this case, P1010012.jpg) to the “My Documents” window.

The image is saved in the computer (in My Documents folder).



- To select all files, choose Edit > Select all.



Note

When the image file has been downloaded to the computer, you can view images by double-clicking the image files downloaded to your computer. The files will be opened in the default image viewer of the operating system. If you want to view the image a different size or process it, you will need to open the image with software that supports JPEG or TIFF images files, such as Paint Shop Pro, Photoshop or CAMELIA Master software.



Caution

The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

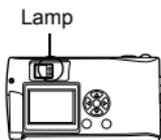
# Disconnecting the camera from your computer

If your OS is Windows Me/2000, proceed to “Windows Me/2000/XP” (p.21).

## ● Windows 98

- 1** Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.



- 2** Double-click the “My Computer” icon and right-click the “Removable Disk” to display the menu.



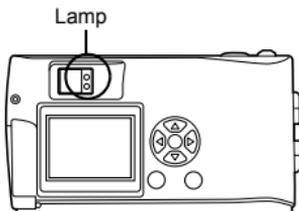
Removable  
Disk (F:)

- 3** Click “Eject” on the menu.

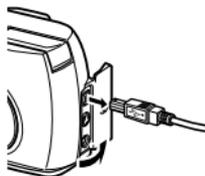


- 4** Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

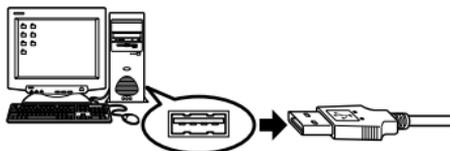
The green lamp lights on some models. If the lamp is no flashing, then the cable can be removed.



- 5** Remove the USB cable from the camera.



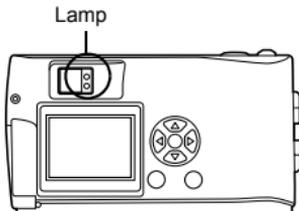
- 6** Remove the USB cable from your computer.



## ● Windows Me/2000/XP

- 1** Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.

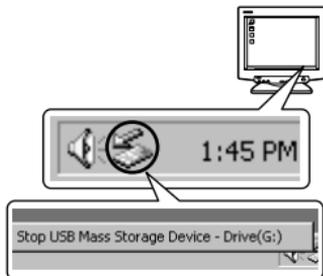


- 2** Click the  “Unplug or Eject Hardware” icon on the task bar.

The message saying that the drive has been stopped appears.

- 3** Click on the message.

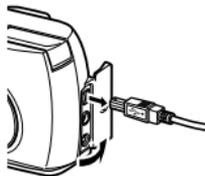
The “Unplug or Eject Hardware” window appears.



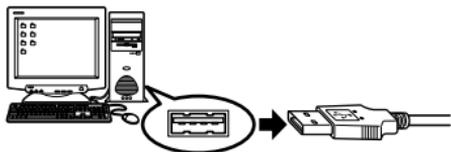
- 4** When a message appears, click “OK”.



- 5** Remove the USB cable from the camera.



- 6** Remove the USB cable from your computer.



If the window returns the following message when you click “Unplug or Eject Hardware”, first make sure that no image data is being downloaded from the camera, and then remove the USB cable.



# Macintosh

## Using Mac OS (9/X)

### Make sure that:

- Your computer is turned on and Mac OS is running.
- If you are running any applications, quit them all.
- You are recommended to power the camera using the optional AC adapter. If the battery power runs out while the computer is accessing the card in the camera, the camera will turn off in the middle of the operation and this could destroy image files (data). If you are using batteries, make sure that there is sufficient remaining battery power.

If you are running Mac OS X, the connection to the computer and downloading the image data are verified. Restrictions such as the following may occur due to the OS.

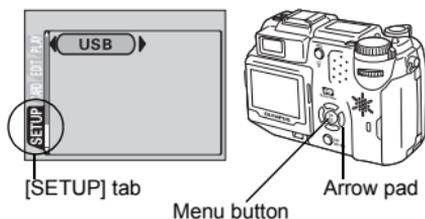
- The image file properties are not displayed correctly.
- Images in the camera cannot be opened without first downloading them. etc.

For more details, visit the Olympus web site.

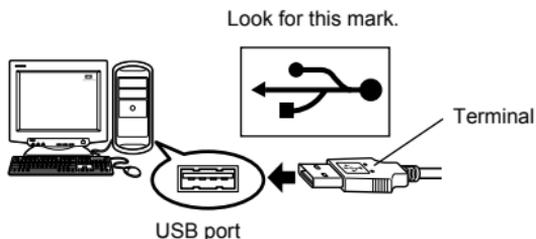
<b>Connecting the camera to the computer .....</b>	<b>24</b>
<b>Downloading images to your computer.....</b>	<b>26</b>
<b>Disconnecting the camera from your computer .....</b>	<b>30</b>

# Connecting the camera to the computer

- 1** Some camera models have a “USB” setting in the menu. Make sure that “PC” is selected before connecting. This is not required if your camera does not have this setting. For details on how to operate the menu, refer to your camera’s reference manual.



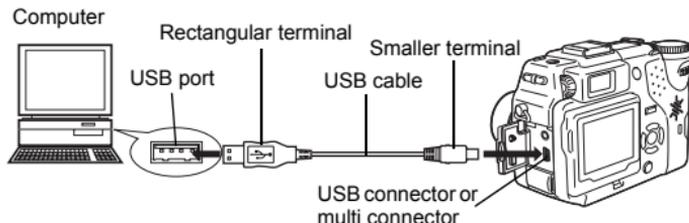
- 2** Insert the marked end of the USB cable into the USB port on your computer as shown below.



The location of the USB port varies depending on the computer. For details, refer to your computer’s manual.

- 3** After making sure that the camera is turned off, connect the end of the USB cable to the USB connector on the camera.

The location of the USB connector or multi connector varies depending on the camera model. Refer to the camera manual for details.

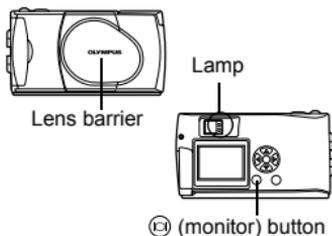


## 4 Turn the camera on.

### ● Camera with a lens barrier

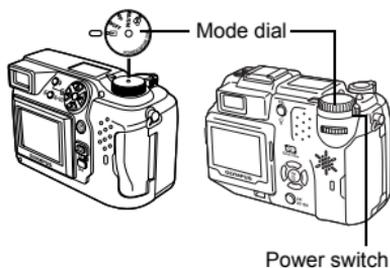
The power turns on automatically, with the exception of some models which require you to press the  (monitor) button.

When the camera is turned on, the green lamp on the right of the viewfinder lights up.

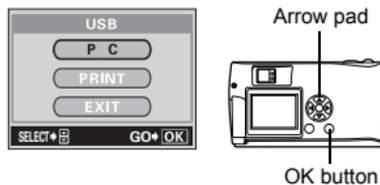


### ● Camera with a mode

Set the mode dial to  .  
(If the camera has a power switch as well as a mode dial, turn the power switch to ON.)



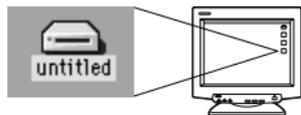
- 5 Some camera models display this screen (shown right) on the monitor. When this screen appears, use the arrow pad to select “PC” and press the OK button.



- 6 The computer recognizes the camera as a new device.

The computer recognizes the camera automatically and an “Untitled” icon appears on the desktop.

If you cannot find this icon, turn off the camera and connect again.



### ● Mac OS X

When the computer has recognized the camera, the Apple Image Capture software automatically launches.  p.29



When the camera is connected to the computer, none of the camera buttons are functional.

# Downloading images to your computer

## ● Mac OS 9

You can download images from the camera and save them in your computer (in this case, in the Hard Disk).

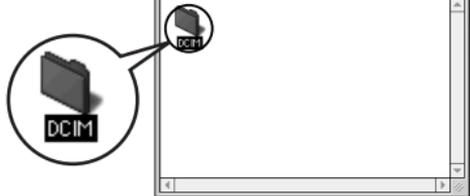
- 1 Double-click the “Untitled” icon displayed on the desktop when the camera is connected to the computer.**



If you cannot find this icon, or if an error message appears when you double-click the icon, there may be a problem with one of the following:

- ① the camera's power source (the AC adapter is not properly connected or the battery power is low)
- ② the card (there is no card in the camera or there is a problem with the card)  
Check that you can play back pictures on the monitor of your camera.
- ③ the USB cable (the camera is not properly connected to the computer by the USB cable).
- ④ Apple “File Exchange” extension is not enabled.
  - Please refer to your Apple operating system manual for instructions on how to enable this extension.

- 2 Double-click the “Dcim” folder.**



- 3 Double-click the “100OLYMP” folder.**

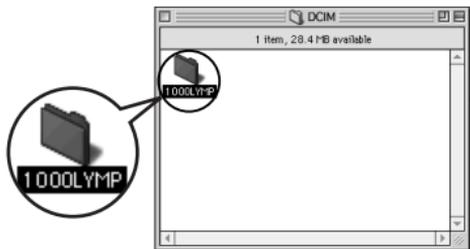
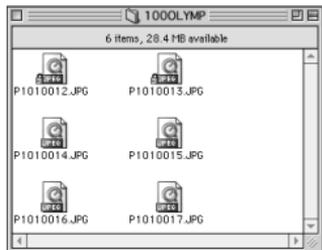
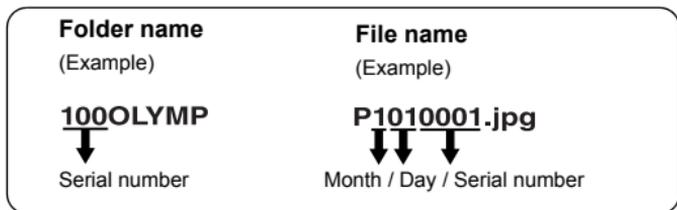


Image files (JPEG files) with file names such as “P1010001.JPG” are displayed.



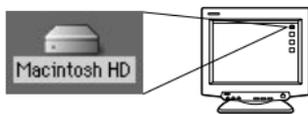
- The camera automatically assigns folder names and file names according to the following rules.



- Serial numbers of image files run from 0001 to 9999.
- Serial numbers of folders run from 100 to 999.
- When file number 9999 is reached, a new folder is created and assigned the next number.
- Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

Macintosh

**4** Double-click the “Macintosh HD” icon on the desktop.



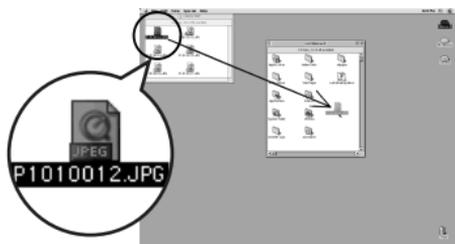
The “Hard Disk” window is displayed.



- 5** Drag & drop the image you want to save in the computer (in this case, **P1010012.JPG**) to the “Hard Disk” window.

The image is saved in the computer (in the Hard disk).

- To select all images, click Edit > Select all.



When the image file has been copied to the computer, you can view images by double-clicking the image files in the “Hard Disk” folder. The files will be opened in the default image viewer of the operating system. If you want to view the image a different size or process it, you will need to open the image with software that supports JPEG or TIFF images files, such as Paint Shop Pro, Photoshop or CAMEDIA Master software.



The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

## ● Mac OS X

Malfunctions such as the following may occur due to the OS.

- If the camera is not connected correctly, a malfunction occurs in the computer.
- Date and time information of image files is not accurately displayed.
- If the card cover of the camera is opened while connecting to the computer, the “untitled” icon does not disappear from the desktop. etc.

When the computer has recognized the camera, the Apple Image Capture software dialog appears.

**1** From the “Download To” menu, select a destination folder.

**2** To download all images, click “Download All”.

To selectively download images, click “Download Some” and highlight the desired images.



The images are transferred from the camera to your computer.



If you are operating Mac OS X and you want to download images using the same procedure as for Mac OS 9, select “File > Close” and exit the Apple Image Capture software. At this time, the camera is indicated as “unlabeled”.

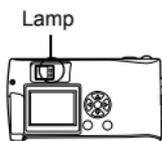


Caution

If you use the Apple Image Capture software, images downloaded to your computer and transferred back to a card may not play back on the camera or may have other problems.

# Disconnecting the camera from your computer

- 1** Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

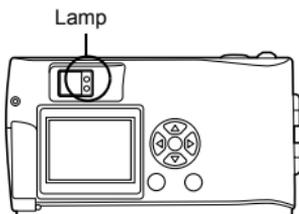


- 2** Drag the "untitled" icon on the desktop to "Trash".

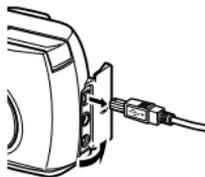


- 3** Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

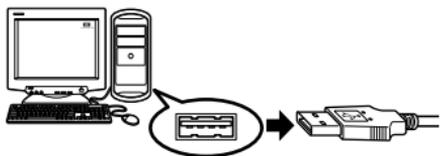
The green lamp lights on some models. If the lamp is no flashing, then the cable can be removed.



- 4** Remove the USB cable from the camera.



- 5** Remove the USB cable from your computer.



# Downloading image files using other OS (For other OS users)

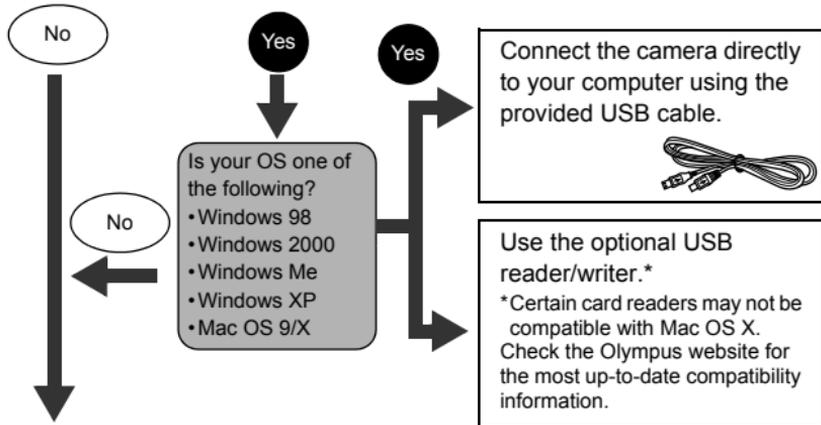
Users running other OS cannot connect the camera directly to a computer.

- **Windows 95**
- **Windows NT**
- **Mac OS before OS 9**

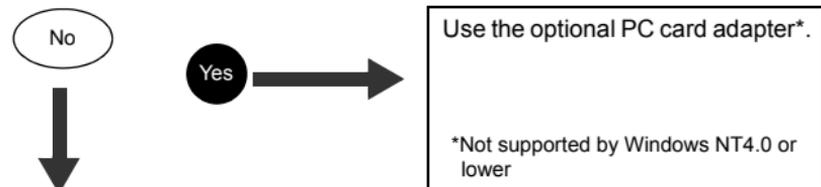
For an OS listed above, you can download images directly to your computer using an optional floppy disk adapter or PC card adapter.

For details, see the Olympus Corporate Site or phone customer support.

Does your computer have a USB interface?  
Is there a port marked  on your computer?



Does your computer have a built-in PC card slot?



Consult your nearest Olympus representative.

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Olympus software updates can be obtained at: <http://www.olympus.com/digital>

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Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom

\* Please note some (mobile) phone services/provider do not permit access or  
request an additional prefix to +800 numbers.

For all not listed European Countries and in case that you can't get connected  
to the above mentioned number please make use of the following

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