OLYMPUS®

CAMEDIA

## DIGITAL CAMERA
C-60 ZOOM

REFERENCE MANUAL

<Click Here>

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.

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CAMEDIA
DIGITAL CAMERA

C-60 ZOOM
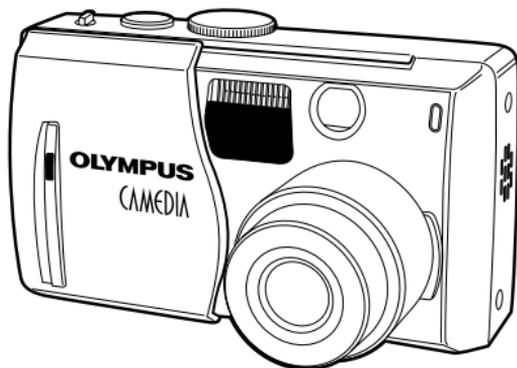
REFERENCE MANUAL

- 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.
- The images and illustrations in this manual may differ from their real versions.

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Monitor indications

● Indications during shooting
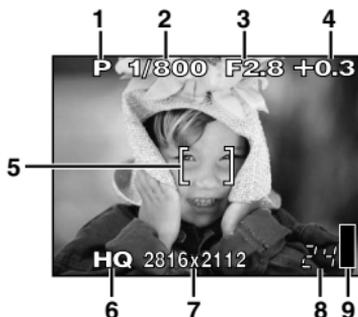
When INFO is set to OFF
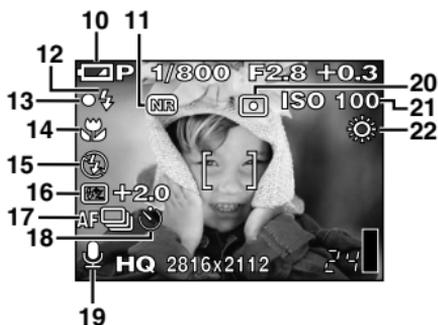
When INFO is set to ON

● Indications during still picture playback

When INFO is set to OFF
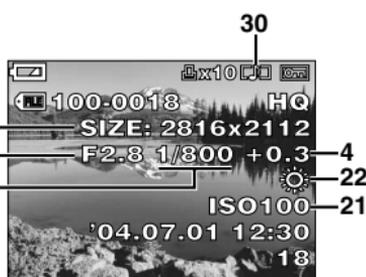
When INFO is set to ON

● Indications during movie playback

When INFO is set to OFF

When INFO is set to ON

	Items	Indications	Ref. page
1	Shooting mode	**AUTO**, P, A, S, M, 🎞️ 🎥, 🍃, 🏔️, 🌄, ☀️, ✳️, 🏖️, 🎆	P. 35
2	Shutter speed	8 to 1/1000	P. 59
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5	AF target mark	[ ]	P. 41
6	Record mode	TIFF, SHQ, HQ, SQ1, SQ2	P. 79
7	Resolution	2816 x 2112, 2560 x 1920 1600 x 1200, etc.	P. 79
8	Number of storable still pictures/ Remaining recording time	24 (still pictures) 00:24 (min.: sec.) (movies)	P. 80 P. 49
9	Memory gauge	▮ , ▮, ▯, ▯	P. 13
10	Battery check	🔋 , 🪫	P. 13
11	Noise reduction	(NR)	P. 88
12	Flash stand-by mark	⚡	P. 55
13	Green lamp	○	P. 40
14	Macro mode/ Super macro mode	🌷 🌷	P. 63 P. 64
15	Flash mode	⚡🚫 , 👁 , ⚡ , ⚡ SLOW, 👁⚡ SLOW	P. 53
16	Flash intensity control	⚡± −2.0 to +2.0	P. 57
17	Drive mode	▢ , ▤ , AF▤ , BKT	P. 68
18	Self-timer/ Remote control	⏱ 📱	P. 65 P. 66
19	Sound record	🎤	P. 75, 77
20	Spot metering	▣	P. 62

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	Items	Indications	Ref. page
21	**ISO**	ISO64, ISO100, ISO200, ISO400	P. 83
22	**White balance**	☀, ☁, ☼, 🗱	P. 85
23	**Print reservation**	凸	P. 127
24	**Number of prints**	x2 to x10	P. 128
25	**Protect**	🔒	P. 100
26	**File number**	🖼 100-0018	—
27	**Date**	'04.07.01	P. 24
28	**Time**	07:15, 12:30, 17:45	P. 24
29	**Frame number**	18	—
30	**Sound record**	⊏♪⊐	P. 98
31	**Movie**	🎥	P. 94
32	**Movie playback time**	00:00/00:20 ┌─ **00:00** / **00:20** ─┐ Elapsed Overall playback time recording time	—
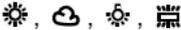
⚠
Note
- The monitor indications differ depending on the camera's settings.
- You can select the amount of information displayed on the monitor.
  ☞ "INFO — Displaying shooting information on the monitor" (P. 111)

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Memory gauge

The memory gauge lights up when the camera is storing a still picture you have just taken on the card. The memory gauge indication changes as shown below depending on the shooting status. The memory gauge does not appear during movie recording.

Memory gauge

When taking still pictures

	Shoot		Shoot		Shoot	
	→		→		→	
	Wait		Wait		Wait	
Before shooting (Gauge is off)		One picture taken (Lit)			No more pictures can be taken (Fully lit). Wait until the gauge returns to the status on the left to take the next shot.	
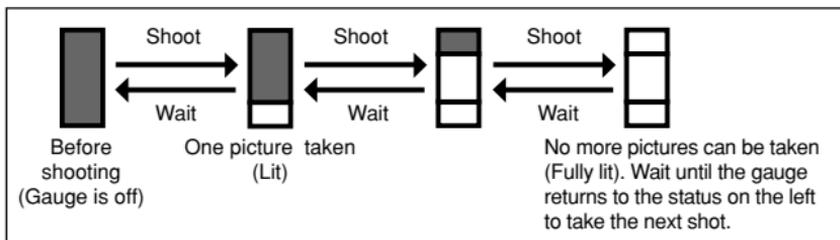
Battery check

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

⊏▱⊐ ➝ ⊏ ▄⊐ ➝ **No indication**

Lights (green)
Remaining power level: High*

Lights (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.

The green lamp and orange lamp next to the viewfinder blink.
Remaining power level: Exhausted. Replace with a charged battery.
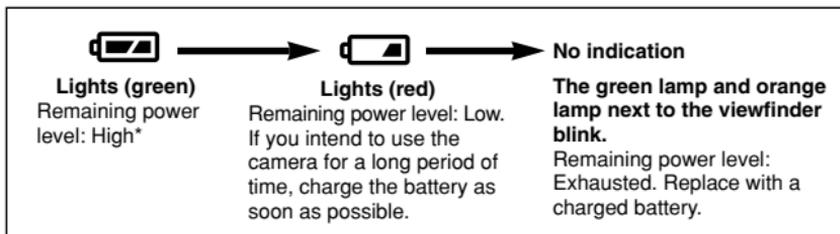
* Your digital camera's power consumption varies greatly depending on usage and operating conditions. Under some operating conditions, the camera may turn off without warning that battery power is low. If this occurs, re-charge the battery.

How to use this manual

Sets the camera to any of the modes shown.

Panorama shooting

You can take advantage of panorama shooting with an Olympus xD-Picture Card. Panorama shooting lets you connect images with overlapping edges into a single panoramic image, using CAMEDIA Master software (contained on the provided CD-ROM).

Available modes

1 In the top menu, select MODE MENU → CAMERA → PANORAMA. Press ⊙.
☞ "How to use the menus" (P. 28)

4

Advanced sh

2 On the monitor, use the arrow pad to choose the direction you want

Step through the menus in the order of the arrows (P. 27)

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

Indications used in this manual

⚠ Note	Important information on factors that may lead to a malfunction or operational problem. 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.

1 Getting started

Attaching the strap

1 Thread the end (small loop) of the strap through the strap eyelet.
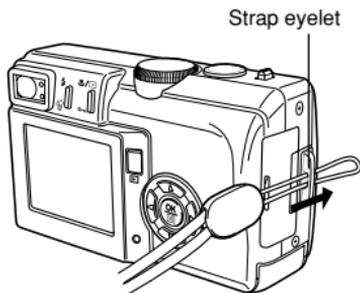
Strap eyelet

2 Thread the rest of the strap through the small loop that you threaded through the eyelet.

3 Pull on the strap to make sure it is securely fastened.
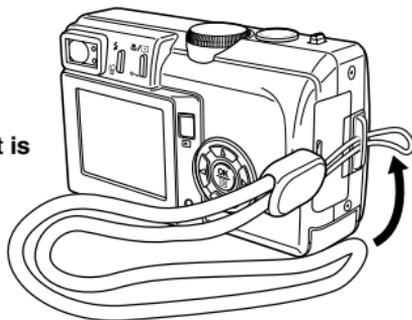
⚠ Note
• Be careful with the strap when you carry the camera, as the strap can easily catch on stray objects, causing serious damage.
• Attach the strap correctly as shown so that the camera does not fall off. If the strap is attached incorrectly and the camera falls off the strap, Olympus is not responsible for any damages.

Battery/Card basics

Battery basics

This camera uses an Olympus lithium ion battery (LI-10B/12B). This battery is dedicated to this camera and other batteries do not work. The battery is not fully charged when the camera is purchased. Fully charge the battery on the specified charger (LI-10C) before first use. Do not use any other chargers. For details, read the charger's instructions (provided).

Lithium ion battery

Charger

To the AC input connector

AC cable

AC wall outlet
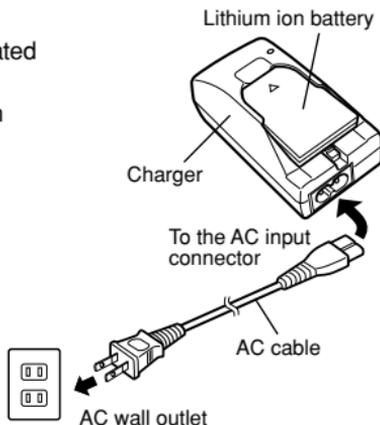
⚠ Note

- Charging of the battery usually takes 2 hours. Charging may be completed quickly depending on how much battery power remains.
- If the charging indicator blinks red, this may indicate that the battery is not properly attached or that the battery has malfunctioned.
- Charging of the battery may cause noise on a television or radio sharing the same wall outlet; however, this is not a malfunction. If this should happen, plug the battery charger into a separate wall outlet.
- The battery may become hot during charging; however, this does not indicate a malfunction.
- This battery charger is guaranteed to operate within an ambient temperature range of 0°C to 40°C. To ensure maximum performance of the battery charger, however, you are recommended to use it between 10°C and 30°C.
- When using the battery charger in a foreign country, be sure to use a travel converter that matches the wall outlet in the area the camera is being used. Please consult a travel agency for more information on travel converters.

Card basics

"Card" in this manual refers to the xD-Picture Card. The camera uses the card to record pictures.

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.

Index area
Write the card's contents here.
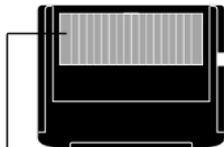
Contact area
The camera reads the card here. Do not touch.

Compatible xD-Picture Card: xD-Picture Card (16 to 512 MB)

> Note
> • This camera may not recognize a non-Olympus card or a card that was formatted on another device (such as a computer). Before use, be sure to format the card on this camera.
>   ☞ "Formatting cards" (P. 115)
> • Do not place a sticker or label on the card as this could prevent the card from being ejected.

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Getting started

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Loading/Unloading the battery/card

1 Make sure the camera is turned off:
- The lens barrier is closed.
- The monitor is turned off.
- The green lamp is off.
- The power lamp is off.

Power lamp

Lens barrier

Green lamp

Monitor
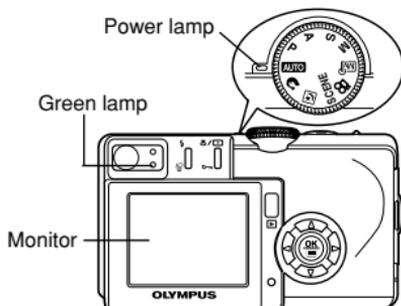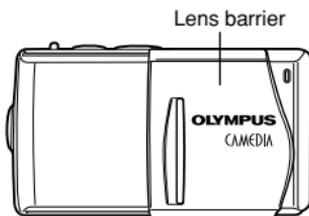
2 Slide the battery/card compartment cover in the direction of the arrow Ⓐ.
- The battery/card compartment cover unlocks and opens in the direction of the arrow Ⓑ.
- Use the ball of your finger to slide the cover. Do not use your fingernail as this could result in injury.

Battery/card compartment cover

Ⓐ Ⓑ
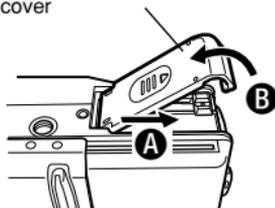
3 Loading the battery

Insert the battery in the correct direction in the battery/card compartment.
- Make sure the knob is locked securely. If the knob is not locked, the battery may pop out when opening the battery/card compartment cover.

Unloading the battery

Slide the knob in the direction of the arrow. The battery pops out. Remove it.

Knob
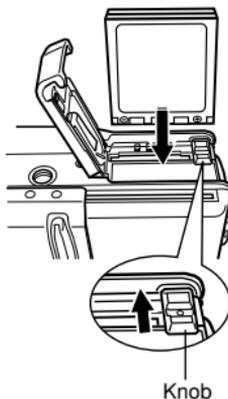
⚠️ Note
- If the battery is removed within 3 seconds after the power is turned off, the settings saved in the 🅼 mode may be canceled.
- Power is consumed continuously during the conditions described below. This could affect the number of storable pictures or remaining recording time.
  – When the monitor is turned on.
  – Repeated auto-focus by pressing the shutter button halfway.
  – Repeated power zoom adjustments.
  – When the camera is connected to a computer or printer.

Loading the card

Index area

Face the card the correct way and insert it into the battery/card compartment.

● Insert the card while keeping it straight.
● Inserting the card the wrong way or at an angle could damage the contact area or cause the card to jam.
● If the card is not inserted all the way, data may not be written to the card.

Unloading the card

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

● The card is ejected a short way and then stops. Hold the card straight and pull it out.
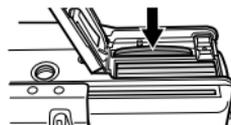
4 Close the battery/card compartment cover in the direction of the arrow ❸, then slide it in the direction of the arrow ❹.
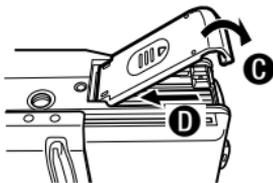
⚠️ Note
- Do not press on the card with hard or pointed items such as ballpoint pens.
- Never open the battery/card compartment cover or disconnect the optional AC adapter while the camera is turned on. Doing so could destroy all data on the card. Destroyed data cannot be restored.
- The card may eject forcibly if you take your finger off the card immediately after pushing it.

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Using an optional AC adapter

In addition to the provided battery, an optional Olympus CAMEDIA-brand AC adapter can be used.

An AC adapter is useful when performing time-consuming tasks such as downloading images to a computer. Use an AC adapter designed to operate on the AC voltage in the region the camera is being used. Consult your nearest Olympus dealer or service center for details.

AC wall outlet

DC-IN jack

Connection cord plug

Power plug   AC adapter

Connector cover
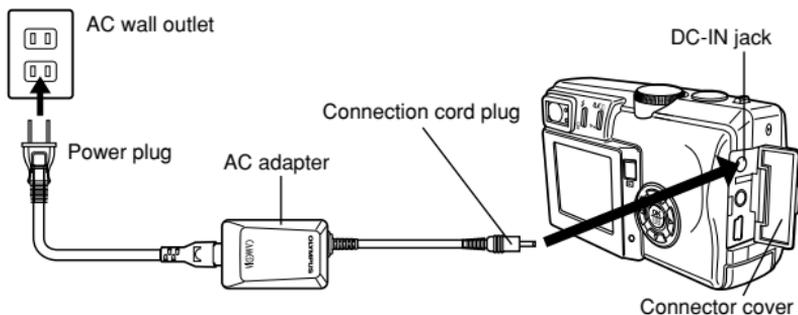
Note
• Before using the AC adapter, remove the battery from the camera.
• If the battery power runs out while the camera is connected to a computer, image data may be corrupted. It is recommended that you use the optional AC adapter when transferring images to a computer. Do not disconnect or connect the AC adapter while the camera is communicating with the computer.
• Do not remove or load the battery and/or do not disconnect or connect the AC adapter while the camera is turned on. Doing so could damage the camera's settings or functions.
• Carefully read the "Safety Precautions" included in the package before use.

1

Getting started

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Power on/off

Shooting mode

Power on: Open the lens barrier. The monitor turns on. The camera turns on in the shooting mode (the power lamp lights).

Power off: Partly close the lens barrier to turn the camera off (about halfway across the lens). Wait until the monitor turns off and the lens is fully retracted. Close the lens barrier all the way. The camera turns off (the power lamp turns off).

Turning the camera on:
Open the lens barrier.

Turning the camera off:
Close the lens barrier.
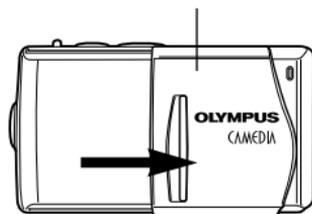
Playback mode

Power on: Press the ▶ (playback) button with the lens barrier closed. The camera turns on in the playback mode (the monitor turns on).

Power off: Press ▶. The camera turns off (the monitor turns off).

Turning the camera on:
Press the ▶ button.

Turning the camera off:
Press the ▶ button.

1

Getting started
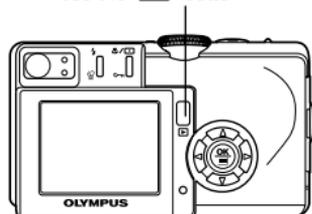
⚠ Note
• The camera automatically enters the sleep mode* to save power when the power is left on and no operations are performed. The camera activates again as soon as you operate any button. Sleep time interval can be set. ☞ P. 122
  * In the playback mode, the camera always turns off if no operation is performed for 3 minutes regardless of the sleep mode setting.
• The power lamp stays lit in the following cases:
  – When the camera is connected to a computer.
  – When the camera is in the sleep mode.
• When closing the lens barrier, do not push the lens barrier against the lens. Forcing the lens barrier may damage the camera body or cause a malfunction.

Startup/Shutdown screen

You can select whether to display the startup/shutdown screen or adjust the sound volume when the power is turned on/off.
☞ "PW ON/OFF SETUP – Power on/off display/sound volume setting" (P.120)

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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.

Indications	TIPS
![NO CARD] **NO CARD**	**There is no card in the camera or the card is not locked into place.** → Insert a card. If a card is already inserted, remove it and insert it again.
![CARD ERROR] **CARD ERROR**	**There is a problem with the card.** → Format the card, if this does not correct the problem, use a different card.
CARD SETUP **POWER OFF** **⊞ FORMAT** SELECT♦☐ GO♦OK **⊞ FORMAT** ⚠ CAUTION ERASING ALL **YES** **NO** SELECT♦☐ GO♦OK	**The card cannot be recognized with this camera system.** → Press ◁▷ to select POWER OFF, then press ⓢ. Replace the card with a new one. → Format the card. ① Press ◁▷ to select ⊞ FORMAT, then press ⓢ. The ⊞ FORMAT screen appears. ② Press ◁▷ to select YES, then press ⓢ to start formatting. When formatting is complete, the camera is ready for shooting.

⚠ **Note**   • All data stored on the card is erased when the card is formatted.

Date/time setting ⏱

Set the date/time. Because the date and time are saved with the recorded pictures, be sure to set them correctly.

Available modes AUTO 🎭 🖼 ▲ 🏛 🎆 🔧 P A S M 🅼ⁱ 🎥 ▶

1

Getting started

Examples of settings available in the AUTO mode.
In other modes, make settings in MODE MENU. ☞ P. 28, 31

1 Set the mode dial to AUTO , then open the lens barrier.
- The power lamp lights and the lens extends.
- If the lens does not extend, the lens barrier is not fully open.
- The monitor turns on automatically.

Power lamp
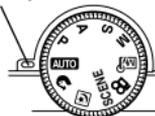
Arrow pad
Mode dial
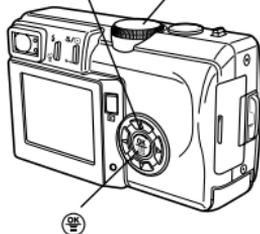
2 Press ⓔ.
- The top menu appears.

3 Press ▽ on the arrow pad to select ⏱.

🕐/🖻
◀ CARD SETUP ▶
⏱
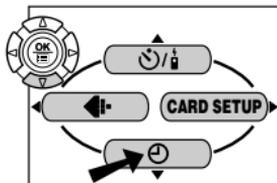
4 When ↔ is selected on the screen, press △▽ to select the date format.
- Select any one of the following formats:
  D-M-Y (Day/Month/Year)
  M-D-Y (Month/Day/Year)
  Y-M-D (Year/Month/Day)
- The following instructions show the procedure used when the date and time settings are set to Y-M-D.

⏱
↔ 2004. 01. 01
   Y — M — D
   00 : 00
SELECT◆◆ SET◆◆ GO◆OK

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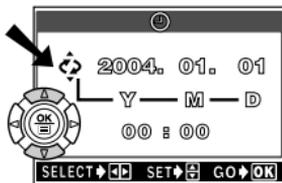
5 **Press $\Diamond$ to move to the year setting.**

6 **Press $\textcircled{a}\textcircled{c}$ to set the year. When the year is set, press $\Diamond$ to move to the month setting.**
● Repeat this procedure until the date and time are completely set.
● To move back to the previous setting, press $\Diamond$.
● The camera can only display the time in "number of hours", or what is commonly known as military time. Consequently, 2 p.m. would be 14:00 hours, or 12:00 hours + 2:00 hours =14:00 hours.
● The first two digits of the year cannot be changed.
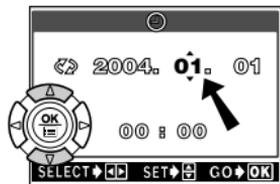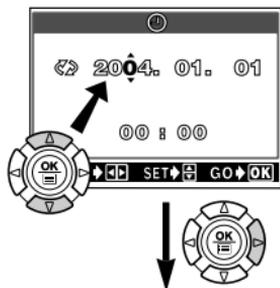
7 **Press $\textcircled{\tiny\#}$.**
● For a more accurate setting, press $\textcircled{\tiny\#}$ when the clock hits 00 seconds. The clock starts when you press the button.

8 **To turn the camera off, close the lens barrier.**

<table><tr><td>⚠
Note</td><td>• The current settings remain the same even when the power is turned off, unless they are readjusted.
• The date setting will return to the factory default setting if the camera is left with no battery for approximately one day. If this happens, you will need to set the date again. The setting will be canceled more quickly if the battery was only loaded in the camera for a short time before being removed.</td></tr></table>

Language selection

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.

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Getting started

1 **Open the lens barrier.**
   ● Set the mode dial to any mode except **AUTO**.

2 **Press ⊛.**
   ● The top menu is displayed.

3 **Press ◌ on the arrow pad to select MODE 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, close the lens barrier.**

ALL RESET	ON
●	ENGLISH
PW ON SETUP	
REC VIEW	ON
🔊	LOW
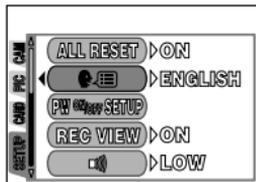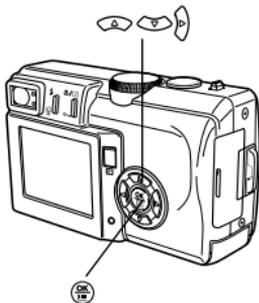
2 Using the menus

What are the menus?

When you turn on the camera and press ⊛, the top menu is displayed on the monitor. You can make a variety of function settings on this camera using the menus. This chapter explains how the menus work, using the **P** mode screens.

Top menu
- Press the arrow pad to display the shortcut menus or MODE MENU.

Shortcut menus
- Take you directly to the setting screens.
- Display operational buttons at the bottom of the screen.
- You can change the shortcut menus in any mode other than AUTO, 🎥 and ▶ modes.
  ☞ "SHORT CUT" (P. 105)

MODE MENU
- Lets you access various menu functions such as the ISO value, etc.
- Categorizes the functions under 4 tabs (CAMERA, PICTURE, CARD and SETUP).
- Displays the associated menu items when you press ◎◎ to select a tab.

Tab

How to use the menus

The instructions below show how to use the menus using the **P** mode screen.

1 **Press ⊜ to display the top menu. Press ⏵.**

Top menu
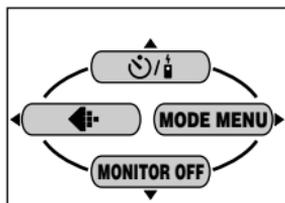
2 **Press △▽ to select a tab, then press ⏵.**

CAMERA tab

SCENE
⏱/⚡ ▷ OFF
DRIVE ▷ ▢
ISO ▷ AUTO
☒ ▷ 0.0
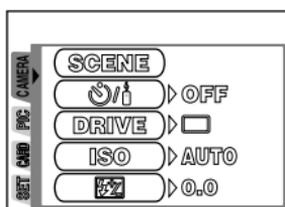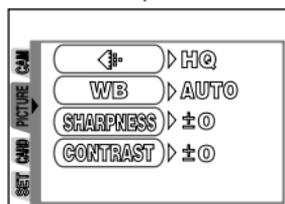
Press ◁ to return to the tab selection screen.

PICTURE tab

◁⊞▷ ▷ HQ
WB ▷ AUTO
SHARPNESS ▷ ±0
CONTRAST ▷ ±0

CARD tab

CARD SETUP

SETUP tab

ALL RESET ▷ ON
🕐⊞ ▷ ENGLISH
PW ON/OFF SETUP
REC VIEW ▷ ON
◁⌗ ▷ LOW

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

4 Press ⊙⊙ to select the option for the selected item. Press ⊛ to complete your setting.
- Press ⊛ again to exit the menu and return to shooting.
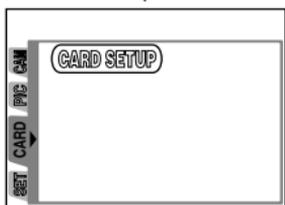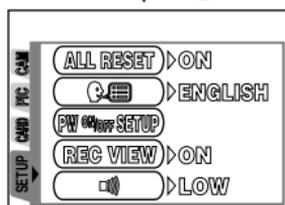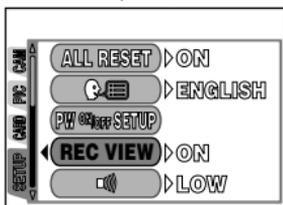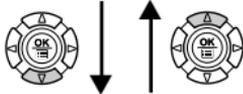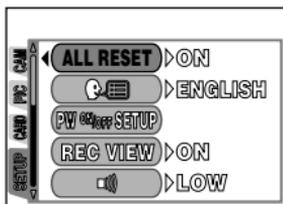
The green frame moves to the selected item.
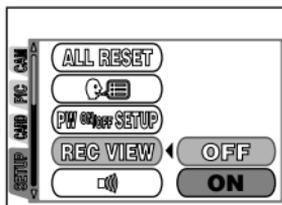
To return to select an item, press ◁ or ⊛.

⚠

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 for when the camera is turned off, set ALL RESET to OFF. ☞ "ALL RESET – Saving the camera's settings" (P. 103)

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Using the menus

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Shortcut menus (shooting/playback)

AUTO top menu
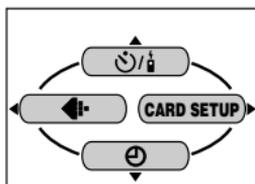
P, **A**, **S**, **M**, 🖼️, **SCENE**, 🎭 or 🔁 top menu
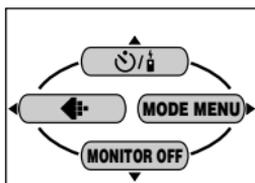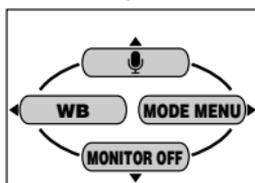
🎥 top menu

▶️ top menu (for still pictures)
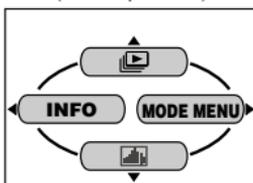
▶️ top menu (for movies)
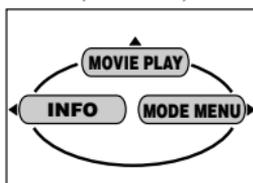
Shooting mode	⟳/🔁	Selects self-timer shooting or remote control shooting.	P. 65, 66
	🕐	Sets the date and time.	P. 24
	⬛	Sets the record mode.	P. 79
	CARD SETUP	Formats a card.	P. 115
	MONITOR OFF (MONITOR ON)	Selects whether to turn the monitor on or off. • MONITOR OFF is displayed when the monitor is on and MONITOR ON is displayed when it is off.	P. 45
Playback mode	🔁	Runs through all saved pictures one after another.	P. 92
	MOVIE PLAY	Plays back movies. You can also make indexes of still-shots from movies.	P. 94
	INFO	Changes the amount of information displayed on the monitor.	P. 111
	📊	Displays a histogram showing the brightness distribution of still pictures.	P. 113

MODE MENU (shooting)

The MODE MENU functions are categorized under tabs. Press ◎◎ to select a tab and display the associated menu items.

CAMERA tab
PICTURE tab
CARD tab
SETUP tab
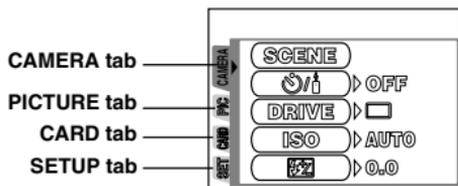
CAMERA tab		
SCENE*	Selects a scene shooting mode from 🔺 , 🏔 , 🖼 , and 🔍 .	P. 36
⏱/📷	Selects self-timer shooting or remote control shooting.	P. 65, 66
DRIVE	Selects from □ (single-frame shooting), ⬚ (sequential shooting), AF⬚ (AF sequential shooting) or **BKT** (auto bracketing).	P. 68
ISO	Selects the ISO sensitivity.	P. 83
📷	Adjusts the flash intensity.	P. 57
NOISE REDUCTION	Reduces the noise in images that is generated by long exposures when shooting under low-light conditions.	P. 88
DIGITAL ZOOM	Digitally increases the optical zoom range to a maximum of approximately 12x.	P. 52
FULLTIME AF	Keeps the image in focus at all times without having to press the shutter button halfway.	P. 61
ACCESSORY	Sets when using an underwater housing.	P. 78
🎤	Records sound when taking a still picture.	P. 75
🌷	Allows pictures to be taken as close as 4 cm/1.6" from the subject.	P. 64
PANORAMA	Allows panorama pictures to be taken with Olympus CAMEDIA-brand cards.	P. 71

* SCENE can be selected when the mode dial is set to **SCENE**.

2 Using the menus

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Using the menus

2 IN 1	Combines two still pictures taken in succession and stores them as a single picture.	P. 73
FUNCTION	Lets you add special effects to pictures (BLACK & WHITE, SEPIA).	P. 74
INFO	Selects whether to display all the information such as shutter speed and white balance, or only the minimum information.	P. 111
📊	Displays a histogram showing the brightness distribution of still pictures.	P. 113

PICTURE tab

◄⊞	Sets the record mode.	P. 79
WB	Sets the white balance appropriate to the light source.	P. 85
SHARPNESS	Adjusts the sharpness of images.	P. 86
CONTRAST	Adjusts the contrast of images.	P. 87

CARD tab

CARD SETUP	Formats a card.	P. 115

SETUP tab

ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P. 103
●⊞	Selects a language for on-screen display.	P. 26
PW ON/OFF SETUP	You can select whether to display the startup/shutdown screen or adjust the sound volume when the power is turned on/off.	P. 120
REC VIEW	Selects whether to display the image being recorded onto the card.	P. 121
■))	Turns off the beep/warning sound or selects the sound volume.	P. 117
SHUTTER SOUND	Sets the sound generated when the shutter button is pressed and adjusts the volume.	P. 118

SLEEP	Sets the time before the sleep mode (idle mode) begins.	P. 122
MY MODE SETUP	Registers settings you customized.	P. 108
FILE NAME	Selects how to name files and folders of images to be saved.	P. 123
PIXEL MAPPING	Checks the CCD and image processing functions for errors.	P. 124
🖵	Adjusts the monitor brightness.	P. 117
⊘	Sets the date and time.	P. 24
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type.	P. 122
SHORT CUT	Lets you register your choice of functions in shortcut menus on the top menu.	P. 105

MODE MENU (playback)

The menu items available in MODE MENU during still picture playback are different from those available during movie playback. Press ◁▷ to select a tab and display the associated menu items.

During still picture playback
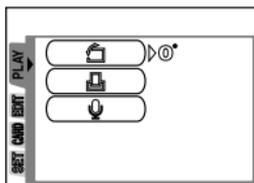
During movie playback
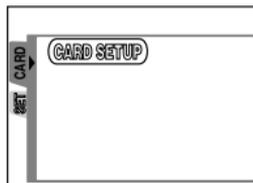
PLAY tab

🗂	Rotates recorded pictures 90 degrees clockwise (+90°), or counter-clockwise (−90°) and displays them.	P. 93
凸	Stores print reservation data on the card.	P. 127
🎤	Adds sound to a still picture already taken.	P. 98

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EDIT tab

🖼	Makes the file size smaller and saves it as a new picture.	P. 99

CARD tab

CARD SETUP	Erases all image data stored on the card or formats the card.	P. 102, P. 115

SETUP tab

ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P. 103
●⃞	Selects a language for on-screen display.	P. 26
PW ON/OFF SETUP	You can select whether to display the startup/ shutdown screen or adjust the sound volume when the power is turned on/off.	P. 120
■))	Turns off the beep/warning sound or selects the sound volume.	P. 117
VOLUME	Adjusts the sound volume during playback.	P. 119
🖳	Adjusts the monitor brightness.	P. 117
⊘	Sets the date and time.	P. 24
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type.	P. 122
▦	Selects the number of frames in the index display.	P. 91

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Using the menus

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3 Shooting basics

Shooting modes

Set the mode dial (and also set the MODE MENU as needed) to select the appropriate shooting mode depending on the type of shooting conditions.

⚠️ Note
• Rotating the mode dial may return some settings to the factory default settings even when ALL RESET is set to OFF.

AUTO Full-auto shooting

Mode dial

Easy to use automatic mode selecting the optimal exposure and focus for general photography. In Full auto, special functions and controls such as Flash intensity control or drive modes cannot be set by the user. This is the simplest of all shooting modes.
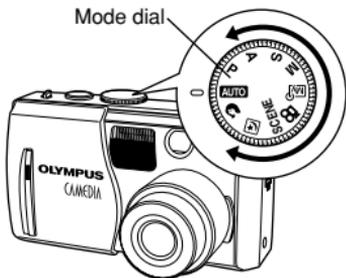
Portrait shooting

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

Night-Scene shooting

Suitable for shooting pictures of outdoor scenes in the evening or at night. For example, if you take a picture of a street at night in other modes, the lack of brightness will result in a dark picture with only the sparkle of lights such as street lamps appearing. In the Night Scene shooting mode, the true appearance of the street can be 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.
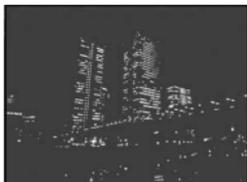
SCENE Scene shooting

Enables you to select one of the following scene shooting modes available in the menu. ☞ "How to use the menus" (P. 28), "MODE MENU (shooting)" (P. 31)

• SCENE can be selected on the MODE MENU only when the mode dial is set to SCENE.
• It is useful to assign SCENE to the shotcut menu so you can access quickly.
  ☞ "SHORT CUT" (P. 105)

▲ Landscape+Scene shooting

Suitable for taking pictures of landscapes and other outdoor scenes. This mode produces clear, sharp pictures with excellent detail, making it ideal for shooting natural scenery.

♠ Landscape+Portrait shooting

Suitable for taking photos of both your subject and the background. The picture is taken with the background as well as the subject in the foreground in focus. The camera automatically sets the optimal shooting settings.

☺ Self Portrait shooting

Enables you to take a picture of yourself while holding the camera. Point the lens towards you and take a shot. The focus is locked on you (shooter). The camera automatically selects the optimal settings for this type of shooting condition. Zooming is not possible in this mode.

✎ Sports shooting

Suitable for capturing fast-moving action without blurring. The camera automatically sets the optimal shooting conditions.

♠ **Movie recording**

Allows you to record movies. The camera sets the aperture and shutter speed automatically. ☞ "Movie recording" (P. 49)

🖳 **My Mode**

Enables you to make settings manually and register them in the mode dial's 🖳 mode so you can call up your own shooting mode whenever you want. Also, if you like the current settings you are using in the **P**, **A**, **S** or **M** mode, you can shift them to the 🖳 mode to register. ☞ "MY MODE SETUP — Registering customized settings in the 🖳 mode" (P. 108)

P **Program shooting**

Allows you to shoot using an aperture and shutter speed that the camera sets. You can set the flash, white balance, or other functions manually.

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 will let the camera 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. 58)

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. 59)

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 differential. 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. 60)

Holding the camera

Hold the camera firmly with both hands while keeping your elbows at your sides to prevent camera movement.

Correct

Horizontal grip
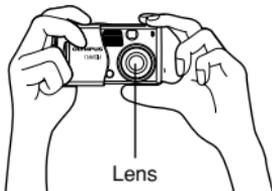
Lens

Vertical grip
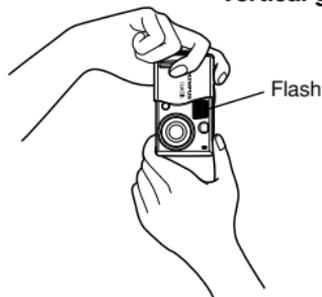
Flash

When shooting vertically using the flash, hold the camera so that the flash is higher than the lens.

Incorrect
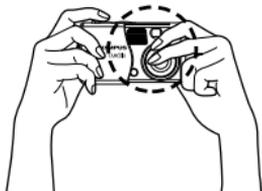
Keep your fingers and the strap away from the lens and flash.

Note
• When using a tripod, attach it after opening the lens barrier. The lens barrier is difficult to open with a tripod attached.

How to press the shutter button

1 **Point the camera towards the subject. Place the AF target mark on the subject.
Press the shutter button slowly and gently (halfway).**
- When the focus and exposure (brightness) are locked, the green lamp on the monitor and next to the viewfinder light steadily.

Half press

Green lamp

P 1/800 F2.8 +0.3

HQ 2816x2112
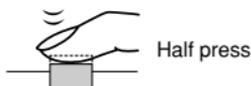
AF target mark

Number of storable still pictures

2 **Press the shutter button all the way (fully).**
- Shooting starts and the card access lamp blinks.
- In the 🎥 mode, the camera starts recording a movie and the orange lamp next to the viewfinder lights.

Full press

Shutter button
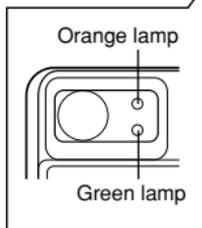
Orange lamp

Card access lamp

Green lamp

Taking still pictures

Taking still pictures using 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.

Available modes | AUTO 🎭 🌃 ▲ 🏠 🖼 ✎ P A S M My?

1 **Open the lens barrier.**
   ● The power lamp lights and the monitor turns on. If the monitor does not turn on, press 🛞 to display the top menu and select MONITOR ON.
   ☞ "How to use the menus" (P. 28)

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

3 **Press the shutter button gently (halfway) to adjust the focus.**
   ● When the focus and exposure are locked, the green lamp on the monitor lights steadily.
   ● ⚡ lights when the flash fires. ☞ P. 55

4 **Press the shutter button all the way (fully).**
   ● The bottom of the memory gauge lights, the card access lamp blinks, and the camera begins storing pictures on the card.

Power lamp

Shutter button

Card access lamp

AF target mark

P 1/800 F2.8 +0.3

[ ]

HQ 2816×2112
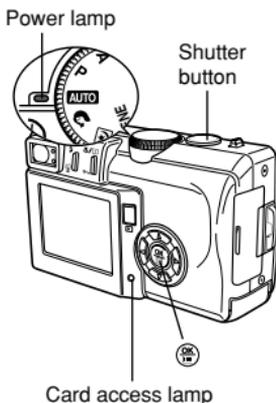
Memory gauge

Number of storable still pictures

? TIPS -
- **The monitor turned off.**
  - → If the camera is not used for over 3 minutes, the monitor turns off automatically, and another 15 minutes later, the lens is retracted. Operate 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. Although this does not affect the actual recorded pictures, use the viewfinder instead if you are having trouble seeing the image.

3

Shooting basics

Taking still pictures using the viewfinder

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

Available modes | **AUTO** | 😊 | 🖼 | ⛰ | 🌄 | 🎇 | ✆ | **P** | **A** | **S** | **M** | 🎦

1 Open the lens barrier.
- The power lamp lights.
- To turn off the monitor, press 🖼 to display the top menu and select MONITOR OFF.
  ☞ "How to turn off the monitor" (P. 45)

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 next to the viewfinder lights steadily.
- When the orange lamp next to the viewfinder lights steadily, the flash fires. ☞ P. 55

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.

Power lamp

Shutter button

Viewfinder

Card access lamp
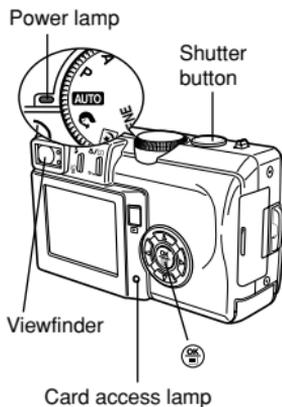
TIPS -

• **The subject cannot be focused on.**
  ☞ "If correct focus cannot be obtained" (P. 46)

• **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 4 cm (1.6") from the subject.
    ☞ "Super macro shooting" (P. 64)
  → Depending on the subject, the focus may not be locked.
    ☞ "If correct focus cannot be obtained" (P. 46)

• **The orange lamp blinks slowly when the shutter button is pressed halfway.**
  → The flash is charging. 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. 121)
  → You can check the picture you have taken by pressing the ▶ (playback) button. ☞ P. 89

Note
• Press the shutter button gently using the ball of your finger. If the button is pressed hard, the camera may move and pictures may come out blurred.
• Recorded pictures will remain on the card if the camera is turned off or the battery or card is replaced.
• Never open the battery/card compartment cover or disconnect the optional AC adapter while the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

3

Shooting basics

Comparison of the monitor & viewfinder

	LCD Monitor	**Viewfinder**
Advantage	You can check the picture area that the camera actually records.	Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.
Disadvantage	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.	When close to a subject, the image in the viewfinder is a little different from the picture that the camera actually records.
Tips	Use the monitor when you want to shoot while checking the picture area that the camera actually records. Use also for close-up shots of people or flowers, or for macro shooting.	Use the viewfinder for general snapshots (landscape pictures, casual shots, etc.).

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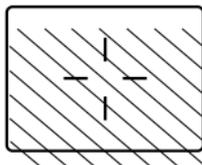
- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded (striped area) becomes lower than the one in the viewfinder (see left).

3

Shooting basics

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How to turn off the monitor

You can set the monitor to turn on or off when the camera is powered on in the shooting mode.

1 Press ⑧ .
  ● The top menu is displayed.

2 Press ◯▽ .

3 The monitor turns off (MONITOR OFF).
  ● To turn the monitor back on, press ⑧ to display the top menu and press ◯▽ to select MONITOR ON.
  MONITOR ON is displayed on the top menu when the monitor is set to off.
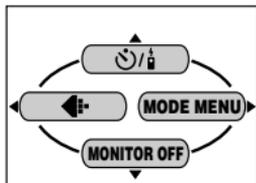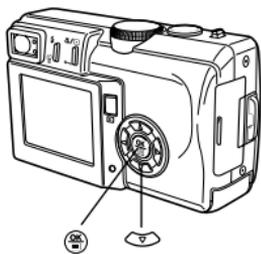
If correct focus cannot be obtained

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)

Available modes ▷ AUTO 🎭 🔆 ▲ 🏔 📷 ✳ P A S M 🖾 🎬

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

P 1/800 F2.8 +0.3

HQ 2016x2112   24

2 Press the shutter button halfway and make sure the green lamp lights steadily.
● When the focus and exposure are locked, the green lamp lights steadily.
● If the green lamp blinks, the focus and exposure are not locked. Release your finger from the shutter button, re-position the AF target mark on the subject and press the shutter button halfway again.

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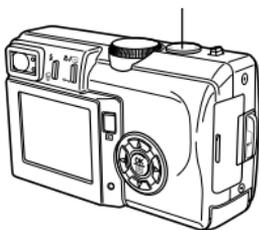
3 **Keeping the shutter button pressed halfway, recompose your shot.**

Green lamp

P 1/800 F2.8 +0.3

[ ]

HQ 2816x2112 24

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

When Auto focus does not work (Subjects that are difficult to focus on)

Under the following conditions auto focus may not work properly.
If this happens, focus on an object with high contrast at the same distance as the intended subject (☞ P. 46, "Focus Lock"), recompose your shot and then take the picture. If the subject has no vertical lines, hold the camera vertically and lock the focus, then return the camera to the horizontal position to take the picture.

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

• Subjects with low
  contrast

• Subjects with no
  vertical lines

• Subjects in excessively
  bright light in the center
  of the frame
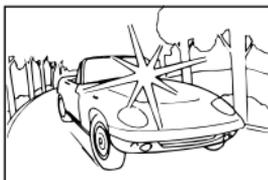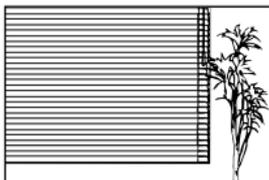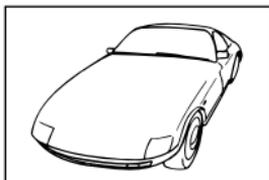
The green lamp lights, but the subject cannot be brought into focus:

• Subjects at different
  distances

• Fast-moving subjects

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

3

Shooting basics

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Movie recording
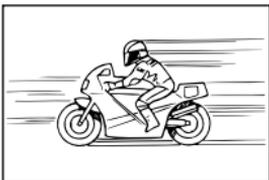
Sound is recorded at the same time. The focus and zoom are locked. If the distance to the subject changes, focus may be compromised. The optical zoom is not available.

Available
modes

1 **Set the mode dial to ♢.**
 ● The remaining recording time is displayed
   on the monitor.

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

Remaining recording time

3 **Press the shutter button fully to start
recording.**
 ● The focus and zoom are locked.
 ● The orange lamp next to the viewfinder
   lights.
 ● During movie recording, 🖭 lights red.

4 **Press the shutter button again to stop
recording.**
 ● When the remaining recording time has
   been used up, recording stops automatically.

TIPS
 • **To record movies without sound.**
   → In the top menu, select ♩ → OFF.
   ☞ "Recording sound with movies" (P. 77)
 • **To use the zoom while shooting.**
   → Set DIGITAL ZOOM to ON.
   ☞ "Using the digital zoom" (P. 52)

> ⚠ **Note**
> • The flash cannot be used.
> • It takes longer to store movies than still pictures.
> • The remaining recording time depends on the selected record mode, free space available on the card, etc.

Notes for recording movies over a long time

• Recording will continue until the card is full unless stopped by pressing the shutter button.
• 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.

3

Shooting basics

Zoom

Telephoto and wide-angle shooting are possible at 3x magnification (the optical zoom limit, equivalent to 38 mm to 114 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 12x.

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

The optical zoom is not available in the 🎬 mode.

Using the optical zoom

Available modes   AUTO 🏃 💤 ▲ 🏔 ✎ P A S M 🖳
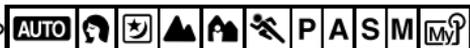
1 **Operate the zoom lever .**
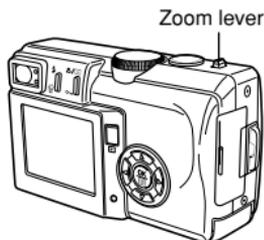
Zoom lever

Wide-angle: Push the zoom lever toward **W** to zoom out.

Telephoto: Push the zoom lever toward **T** to zoom in.

P 1/800 F2.8 0.0

HQ 2816x2112

P 1/800 F2.8 0.0

HQ 2816x2112

DIGITAL ZOOM — Using the digital zoom

Available modes | 🧑 🏃 ▲ 🏔 ✼ P A S M ᴹʸ 🎬

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

  ☞ "How to use the menus" (P. 28)

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

Zoom lever

🛞
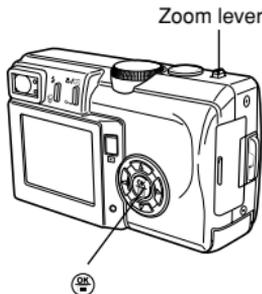
2 **Push the zoom lever toward T.**
  ● The white area of the zoom indicator shows
    the optical zoom. If the digital zoom is set to
    ON, a red area appears on the zoom
    indicator. When you reach the limit of the
    optical zoom, the digital zoom is enabled.

P 1/800 F2.8 0.0

HQ 2816x2112

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 the 🎬 mode, the maximum digital zoom magnification is 3.0x.
  • 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.

3

Shooting basics

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Flash shooting

You can select a flash mode appropriate 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. ☞ P. 57

The flash modes are as follows:

Auto-flash (No indication)

Automatically fires in low-light and 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

The subject's eyes appear red.

to the bright light and minimizes the red-eye phenomenon.

> ⚠ Note
> • After the pre-flash, it takes approximately 1 second before the shutter is released. Hold the camera firmly after the pre-flash to prevent 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, such as light-colored eyes, may also limit effectiveness.

Fill-in flash ⚡

The flash fires regardless of available light. This mode is useful for eliminating shadows on the subject's face or for correcting the color shift produced by artificial lighting (especially fluorescent light).

> ⚠ Note
> • Fill-in flash may not have the desired effect under excessively bright light.

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Flash off ⑭

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 ⚡ SLOW ⊚⚡ SLOW

The slow synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a night scene background, fast shutter speeds can make the background too dark. Slow synchronization flash allows both a slow shutter speed for the background and a flash for the subject. Since the shutter speed is slow, make sure you stabilize the camera by using a tripod. Otherwise, camera movement may cause the image to be blurred.
In **S** and **M** modes, the flash fires at the selected shutter speed.

■ **Slow synchronization: ⚡ SLOW**
Regardless of the shutter speed, the flash fires right after the shutter fully opens.

■ **Slow synchronization with red-eye reduction: ⊚⚡ SLOW**
This is for when you want to use slow synchronization yet also reduce red-eye. For instance, when shooting a person against a brightly lit night background. A normal flash might make the person's eyes red, but slow synchronization with red-eye reduction lets you capture the background correctly and reduce red-eye at the same time.

3

Shooting basics

Using the flash

Available modes ▷ AUTO 🎭 📅 ▲ 🏕 🎆 ✎ P A S M M?

1 **Press the ⚡ (flash mode) button repeatedly until the desired flash mode indication appears.**

— **Mode indication** —

Auto-flash ———————→ ◉
↑   ↓
⚡   ⚡
↑   ↓
◉⚡ SLOW ←————————— ⚡ SLOW

● If ⚡ is not pressed for 2 seconds, the selection screen disappears.

⚡ button   Shutter button
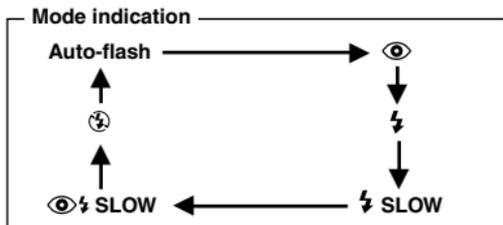
2 **Take the picture.**
● The orange lamp and the ⚡ (flash standby) mark light when the flash is ready to fire.

Flash working range

W (max.): Approx. 0.2 m to 3.4 m (0.6 ft to 11.2 ft)
T (max.) : Approx. 0.3 m to 2.0 m (1.0 ft to 6.6 ft)

P   1/30   F2.8   0.0

◉

[ ]

HQ 2816x2112   24

Orange lamp

⚡ mark

P   1/30   F2.8   0.0
○⚡

[ ]

HQ 2816x2112   24

3

Shooting basics

55

Mode / Flash mode	AUTO	🧑📷	🏔️🌄	🌙	✂️	P A	S M	My🎞️*
Auto-flash	√	√	√	√	√	√	–	√
◉	√	√	√	√	√	√	–	√
⚡	–	√	√	√	√	√	–	√
⚡ SLOW	–	√	√	√	√	√	√	√
◉ ⚡ SLOW	–	√	√	√	√	√	√	√
⊗	√	√	√	√	√	√	√	√

√: Available, – : Not available, ▭ : Factory default setting

* Available flash modes and the factory default settings depend on the shooting mode (**P**, **A**, **S** or **M**) registered in the 🎞️ mode.

3

Shooting basics

> **TIPS** --
>
> • **The orange lamp or the ⚡ (flash standby) mark blinks.**
>   → The flash is charging. Wait until the orange lamp or ⚡ lights steadily.
> • **Camera movement warning (auto, red-eye reduction ◉ , fill-in ⚡).**
>   → When the orange lamp or ⚡ (camera movement warning) lights up, the shutter speed locks at its current level. This helps prevent camera movement problems (shutter speeds that are too slow can cause blur). However, if the zoom magnification is increased, the camera will increase the locked shutter speed accordingly.
>   **Zoom position & shutter speed**
>   W (max.): 1/30 sec., T (max.): 1/100 sec.

> ⚠ **Note**
> • The flash does not fire in the following situations:
>   In the 🎥 mode, during auto bracketing (**BKT**), during super-macro shooting, 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.

Flash intensity control   🔅

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

Available modes 🎭 📷 🏔 🏤 🎬 🔦 P A S M ⒨

1 **In the top menu, select MODE MENU →**
CAMERA → 🔅 .

☞ "How to use the menus" (P. 28)

2 **Press ⬆⬇ to adjust, then press ⒪ .**

● Press ⒪ again to exit the menu.
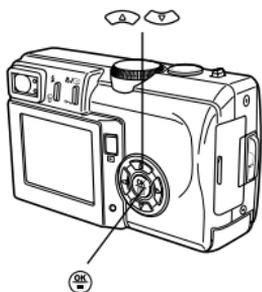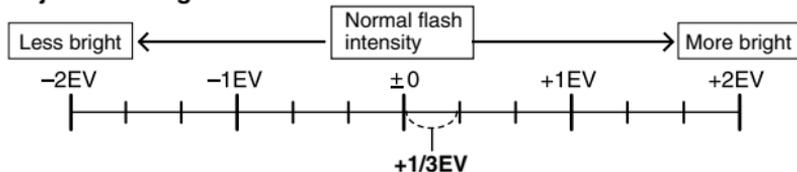
```
Adjustable range
                        Normal flash
                        intensity
 Less bright ←                          → More bright
 −2EV      −1EV         ±0      +1EV        +2EV
 ├──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┤
                         +1/3EV

 ⬆ : Light emission is increased by a 1/3 EV each time you press the button.
 ⬇ : Light emission is decreased by a 1/3 EV each time you press the button.
     (EV: Exposure Value)
```

Factory default setting: ±0

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

4 Advanced shooting

Aperture priority shooting [A]

Available modes [A]

1 Set the mode dial to A.

Mode dial

2 Set the aperture value.

To increase the aperture value
(F-number), press $\diamondsuit$.

To decrease the aperture value
(F-number), press $\heartsuit$.

3 Take the picture.

Aperture value (F-number)

A 1/600 F5.6 0.0

HQ 2816x2112

■ **The aperture value is displayed in green**
The aperture you have set will provide optimum
exposure.

■ **The aperture value is displayed in red**
The aperture you have set is unsuitable for the
conditions.

  ▼ appears : Press $\heartsuit$ to decrease the
             aperture value.

  ▲ appears : Press $\diamondsuit$ to increase the
             aperture value.
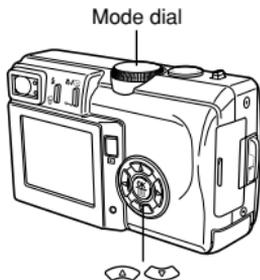
Zoom position	Value
Wide (W)	f2.8* to f8.0
Tele (T)	f4.8* to f8.0

* Open-aperture (the widest aperture setting) depends on
the zoom position.

⚠ Note
• When the flash is set to the auto-flash mode, the shutter speed is
fixed at 1/30 second in the maximum wide-angle, or 1/100 second in
the maximum telephoto, and can never go slower.

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4 Advanced shooting

Shutter priority shooting **S**

Available modes | **S**

1 Set the mode dial to **S**.

2 Set the shutter speed.

To set a faster shutter speed, press ⊘.

To set a slower shutter speed, press ⊘.

3 Take the picture.

■ **The shutter speed is displayed in green**
The shutter speed you have set will provide optimum exposure.

■ **The shutter speed is displayed in red**
The shutter speed you have set is unsuitable for the conditions.

▼ appears : Press ⊘ to set the shutter speed slower.

▲ appears : Press ⊘ to set the shutter speed faster.

Shutter speed range: 4 to 1/1000 sec.

Mode dial

Shutter speed

S **1/750** **F2.8** **0.0**

[　]

HQ 2816×2112

4

Advanced shooting

Manual shooting M

1 Set the mode dial to **M**.

Mode dial
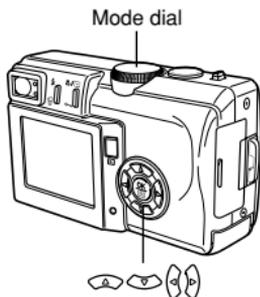
2 Set the aperture value and shutter speed.

To set a faster shutter speed, press ▲.

To increase the aperture value (F-number), press ◄.

To decrease the aperture value (F-number), press ►.

To set a slower shutter speed, press ▼.

3 Take the picture.

F-number: W → f2.8 * to f8.0
T → f4.8 * to f8.0
Shutter speed: 8 to 1/1000 sec.

* Open-aperture (the widest aperture setting) depends on the zoom position.

■ Exposure differential

● The difference (ranging from –3.0 to +3.0) between the exposure determined by the currently selected aperture and shutter speed and the exposure considered optimal by the camera appears in the upper right-hand corner.

● When the exposure differential is set to less than –3.0 or more than +3.0, the exposure differential appears in red.

Aperture value (F-number)

Shutter speed

Exposure differential

M 1/800 **F2.8** –1.0

HQ 2816x2112

⚠ **Note**

• To avoid camera movement, we recommend use of a tripod for any effect which uses a slow shutter speed.

4

Advanced shooting

FULLTIME AF — A reliable time-saving way to focus

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

Available modes 〇 ☠ ▲ ♠ ☒ ✎ P A S M ⊠

1 **In the top menu, select MODE MENU → CAMERA → FULLTIME AF → ON, and press ⊛ .**
   ☞ "How to use the menus" (P. 28)
   ● If the monitor is turned off, FULLTIME AF does not function.
   ● Press ⊛ again to exit the menu.
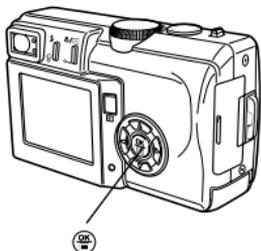
⚠ • Battery consumption increases when FULLTIME AF is used.
Note

Advanced shooting

Selecting the metering area ⊡

There are 2 ways of measuring the brightness of a subject: Center-weighted metering and spot metering.

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.

Spot metering

Meters within the AF target mark to determine exposure. A subject can be shot with optimal exposure regardless of the background light (such as when the subject is dark due to back lighting.) When ⊡♥ is set, you can use spot metering when shooting up close to a subject.

Available modes	AUTO	😊	🌃	🏔	🏕	🎞	✂	P	A	S	M	My	🎬

1 Press the ♥/⊡ (macro/spot) button repeatedly until ⊡ (spot metering) or ⊡♥ (spot metering+ macro mode) appears.
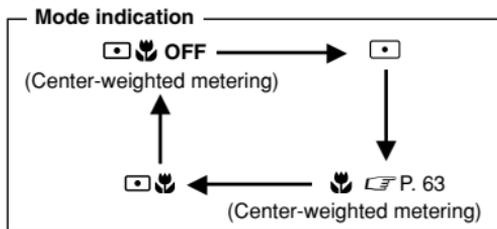
— Mode indication —

⊡♥ **OFF** ⟶ ⊡
(Center-weighted metering)

⊡♥ ⟵ ♥ ☞ P. 63
(Center-weighted metering)

● If ♥/⊡ is not pressed for 2 seconds, the selection screen disappears.
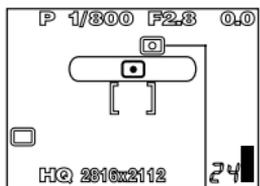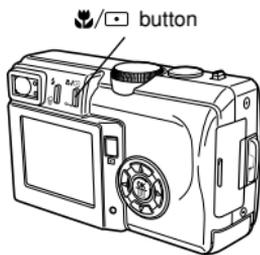
2 Take the picture.

Factory default setting: ⊡♥ OFF (Center-weighted metering)

♥/⊡ button

P 1/800 F2.8 0.0

HQ 2816x2112   24

Spot metering

Macro mode shooting — Taking close-up pictures 🌷

Macro shooting allows you to shoot from as close as 30 cm (1.0 ft) to a subject while the zoom lever is pressed to the maximum T position. You can fill the entire frame with a very small subject. As the center of the frame (within the AF target mark) is metered and optimal exposure is obtained when ⏹🌷 is set, the picture turns out well. ☞ "Selecting the metering area" (P. 62)

Normal shooting   Macro mode shooting

Available modes | AUTO | 🎭 | 🕐 | ▲ | 🏛 | 📷 | 🔧 | P | A | S | M | My | 🎬

1 **Press the 🌷/⏹ (macro/spot) button repeatedly until 🌷 (macro mode) or ⏹🌷 (spot metering+ macro mode) appears.**

Mode indication

⏹🌷 OFF ────────▶ ⏹
(Center-weighted metering)

⏹🌷 ◀──────── 🌷
(Center-weighted metering)

🌷/⏹ button
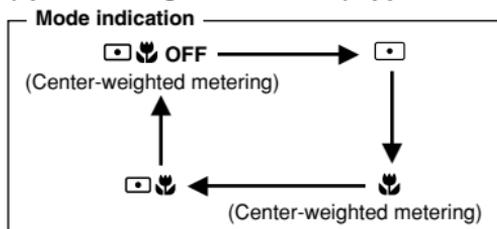
- If 🌷/⏹ is not pressed for 2 seconds, the selection screen disappears.

2 **Take the picture while observing your subject on the monitor.**
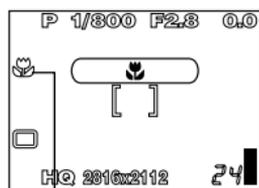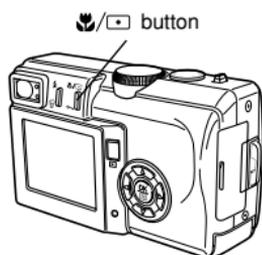
Macro shooting range
Wide (W) : 20 cm to 50 cm (0.7 ft to 1.6 ft)
Tele (T) : 30 cm to 50 cm (1.0 ft to 1.6 ft)

Factory default setting: ⏹🌷**OFF (**Center-weighted metering)

P 1/800 F2.8 0.0

HQ 2816x2112   24

Macro mark

⚠ Note
• If you use the flash in macro shooting, shadows may be noticeable and the correct exposure may not be achieved.

4

Advanced shooting

63

Super macro shooting

This mode lets you shoot a small subject that macro shooting cannot capture.
You can shoot from as close as 4 cm (1.6") to a subject with the zoom lever
pressed to the maximum W position.

Available modes > 🏃 🖼 ▲ 🌄 ✂ P A S M �🖼? 📹

1 **In the top menu, select MODE MENU →
   CAMERA → 🌷 → ON, and press 🖲.**
   ☞ "How to use the menus" (P. 28)
   ● Press 🖲 again to exit the menu.

2 **Take a picture while observing your
   subject on the monitor.**
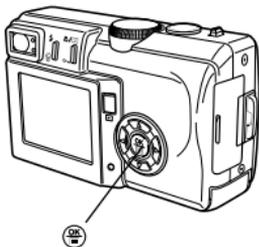
⚠️ Note
 • In the 🌷 mode, the flash is set to the off mode 🚫⚡.
 • When taking pictures close to the subject, shadows may become
   noticeable, and the auto focus may not be able to maintain correct
   focus.

4

Advanced shooting

Self-timer shooting ⏱

This function is useful for taking pictures where you want to be included in the photograph.

Available modes ▶ AUTO | 🎭 | 🌄 | 🏔 | 🏕 | 🌻 | 🔧 | P | A | S | M | 🎬 | 🎥

1 **In the top menu, select MODE MENU →
CAMERA → ⏱/🖼 → ⏱ . Press ⊛ .**

   ☞ "How to use the menus" (P. 28)

   ● Press ⊛ again to exit the menu.

   ● 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
   ⏱/🖼 . ☞ "SHORT CUT" (P. 105)
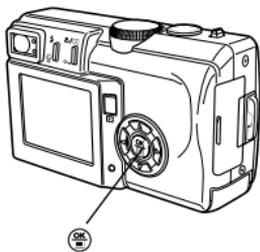
2 **Take the picture.**

   ● The self-timer starts.

   ● The self-timer/remote control lamp lights up
   for approximately 10 seconds, then starts
   blinking. After blinking for approximately 2
   seconds, the picture is taken.

   ● Movie recording starts approximately 12
   seconds after pressing the shutter button. To
   stop recording, press the shutter button fully
   again.

   ● To stop the self-timer, press ⊛. The self-
   timer/remote control lamp will turn off.

Self-timer/Remote
control lamp
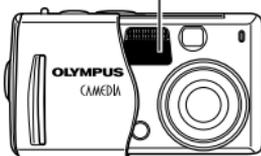
⚠ **Note**

• The self-timer is canceled automatically when shooting is finished.

• In the 🎥 mode, the camera automatically stops recording when the
remaining recording time has been used up.

4

Advanced shooting

Remote control shooting

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

Available modes AUTO 🌙 🎆 ▲ 🏠 🖼 ✂ P A S M My 🎬

1 **In the top menu, select MODE MENU →
   CAMERA → ⟳/⌐ → ⌐ . Press ⊛ .**

   ☞ "How to use the menus" (P. 28)

   ● Press ⊛ again to exit the menu.
   ● 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
     ⟳/⌐ . ☞ "SHORT CUT" (P. 105)
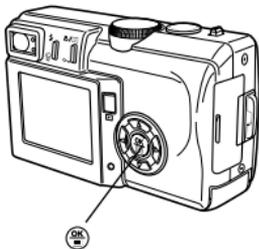
2 **Point the remote control at the remote
   control receiver on the camera. Press the
   shutter button on the remote control.**

   ● The camera's self-timer/remote control lamp
     blinks for about 2 seconds before taking the
     picture.
   ● The remote control mode is not canceled
     automatically after shooting. Perform step 1:
     Set ⟳/⌐ to OFF.
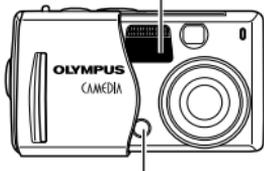
Self-timer/Remote
control lamp

Remote control
receiver

Transmitted remote control signal effective area

3m (9.8 ft)
15°
15°   5m (16.4 ft)
3m (9.8 ft)
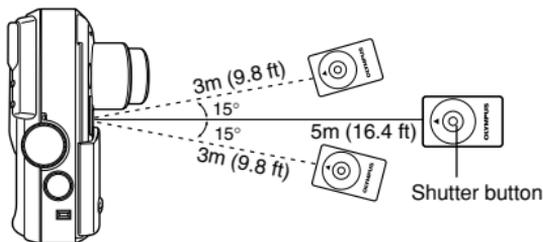
Shutter button

TIPS -
• **If the camera's self-timer/remote control lamp does not blink after pressing the shutter button on the remote control.**
→ The remote control may be too far away from the camera. Move the remote control or change your position as necessary so that the remote control signal can reach the camera, then press the shutter button again on the remote control.
→ 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. 162)

Note
• If the remote control receiver is exposed to strong light, such as direct sunlight, shooting may not take place, even if the remote control is within the effective signal distance.
• To shoot sequential shots using the remote control, press and hold the shutter button on the remote control. If the camera does not receive the remote control signal properly, sequential shooting may stop.

4

Advanced shooting

Sequential shooting ◻️ AF◻️ **BKT**

There are 3 sequential shooting modes: sequential shooting (◻️), AF sequential shooting (AF◻️) and auto bracketing (**BKT**).

Drive mode

◻️　　**:** Shoots 1 frame.

◻️　　**:** Shoots a maximum number of 3 frames (in the HQ mode) sequentially at approximately 1 frame/sec. Focus, exposure and white balance are locked at the first frame.

AF◻️ : Shoots pictures sequentially. Adjusts the focus 1 frame at a time. The AF sequential shooting speed is lower than normal sequential shooting.

BKT : Auto bracketing. ⟹ P. 69

Sequential shooting & AF sequential shooting ◻️ AF◻️

Available modes 🧑 🏔️ 🏠 📷 ✍️ **P** **A** **S** **M** 🗂️

1 **In the top menu, select MODE MENU →
CAMERA → DRIVE → ◻️ or AF◻️ .
Press ⓔ .**

⟹ "How to use the menus" (P. 28)

● Press ⓔ again to exit the menu.

Shutter button

2 **Take pictures.**

● Press the shutter button all the way and keep it pressed. The camera will take pictures in sequence until you release the button.

Advanced shooting
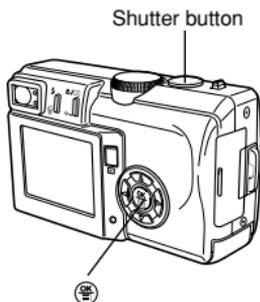
Auto bracketing — Shooting pictures sequentially with a different exposure for each frame **BKT**

Under some conditions, you may obtain better results shooting with exposure compensation than by using the exposure setting considered optimal by the camera.

During auto bracketing, exposure is changed for each frame. The exposure differential and number of frames can be selected in the menus. The focus and white balance are locked at the first frame.

Example: When BKT is set to ±1.0, x3

−1.0   0.0   +1.0

| Available modes | 🎭 | 🏔 | 🏠 | 🎨 | 🔧 | P | A | S | My |

1 **In the top menu, select MODE MENU →**
CAMERA → DRIVE → BKT. Press .
☞ "How to use the menus" (P. 28)

2 **Press to select the exposure differential between each frame (±0.3, ±0.7, ±1.0), then press .**

```
        BKT
    ±0.3        x3
    ±0.7        x5
    ±1.0
CANCEL SELECT GO OK
```

4

Advanced shooting

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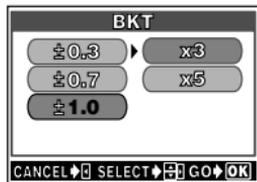
3 Press ⊚⊚ to select the number of frames to shoot (x3 or x5), then press ⓢ.

● In some combinations of picture size and record mode, only x3 is available.

● Press ⓢ twice to exit the menu.

```
        BKT
    ±0.3  ▶ x3
    ±0.7    x5
    ±1.0
    SELECT◆⊞ GO◆OK
```
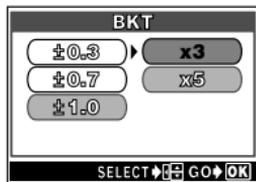
4 Take pictures.

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

⚠ Note

• If sequential shooting (⊒ , AF⊒) is attempted when the flash mode is set to red-eye reduction ⊚ , the flash mode will change to autoflash. If sequential shooting (⊒ , AF⊒) is attempted when the flash mode is set to slow synchronization with red-eye reduction, the flash mode will change to slow synchronization.

• During auto bracketing (**BKT**), the flash is set to the off mode ⊛ .

• Sequential shooting (⊒ , AF⊒ , **BKT**) is not available when the record mode is set to TIFF.

• If there is not enough space available on the card for the number of frames you have set during auto bracketing, you cannot continue shooting.

• If the battery power dies 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.

• It takes longer than usual to store pictures after sequential shooting.

4

Advanced shooting

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Panorama shooting

You can take advantage of panorama shooting with an Olympus xD-Picture Card. Panorama shooting lets you connect images with overlapping edges into a single panoramic image, using CAMEDIA Master software (contained on the provided CD-ROM).

Available modes

1 In the top menu, select MODE MENU → CAMERA → PANORAMA. Press $\textcircled{\scriptsize 9}$.

☞ "How to use the menus" (P. 28)
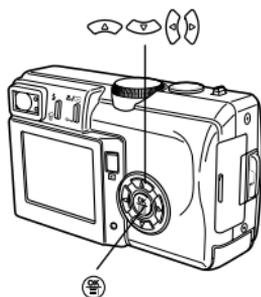
2 On the monitor, use the arrow pad to choose the direction you want the pictures connected.

- $\textcircled{\scriptsize 9}$: Connects the pictures from left to right.
- $\textcircled{\scriptsize 9}$: Connects the pictures from right to left.
- $\textcircled{\scriptsize \triangle}$: Connects the pictures from bottom to top.
- $\textcircled{\scriptsize \triangledown}$: Connects the pictures from top to bottom.

Connects a series of pictures from left to right.
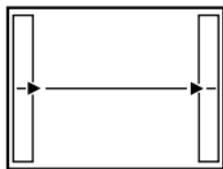
Connects a series of pictures from bottom to top.
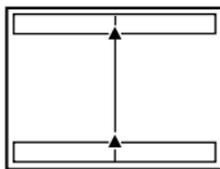
3 Make sure that the edges of images overlap, then take your pictures.

- 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.

4

Advanced shooting

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Shutter button

Shutter button

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).

4 Press ⓔ to finish panorama shooting.
● Frames on the edges of the screen disappear, and the camera returns to the normal shooting mode.

4

Advanced shooting

⚠ Note

• If 🖼 is set to **A**, **S** or **M**, panorama shooting is not available.
• During panorama shooting, the flash and sequential shooting are not available.
• If you take 10 pictures, a warning screen appears and no more pictures can be taken.

• Panorama shooting is only available using cards with panorama function.
• The camera itself cannot connect panorama pictures. To connect each picture, use the CAMEDIA Master software.
• If panorama shooting is done in the TIFF record mode, images are saved with the same resolution in the JPEG format.
• If the mode dial is moved during panorama shooting, the camera cancels panorama shooting and returns to normal shooting.

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Taking two-in-one pictures **2 IN 1**

Allows you to combine two pictures taken in succession and store them as a single picture.

Playback of two-in-one picture

Available modes

🎭 🌃 🏔 🏠 🎬 🔍 P A S M My

1 **In the top menu, select MODE MENU → CAMERA → 2 IN 1. Press ▷ .**

☞ "How to use the menus" (P. 28)

● The 2 IN 1 picture mode is set. The monitor turns on automatically.
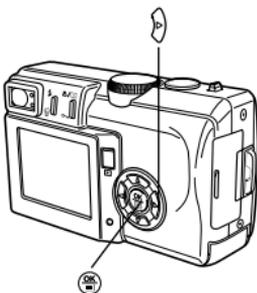
2 **Take the first shot.**

● The subject will be on the left in the combined image.

● To cancel the two-in-one picture mode after taking the first shot, press 🔘 . The first shot will not be stored.

3 **Take the second shot in succession.**

● The subject will be on the right in the combined image.

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> ⚠️ **Note**
> • During two-in-one (2 IN 1) shooting, the following functions are not available: Panorama shooting, Sequential shooting ☐ , AF sequential shooting AF☐ , Auto bracketing (**BKT**), recording sound with pictures 🎤 , histogram display.
> • When taking two-in-one (2 IN 1) pictures in the TIFF record mode, the pictures are saved with the same resolution in the JPEG format.
> • If the camera enters the sleep mode after the first picture has been taken, the 2 IN 1 picture mode will be canceled. The first picture you took is not saved.

4

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.

Available modes | 🎭 💆 🏔 🏕 🎬 ✂ P A S M 🗂 🎥

1 **In the top menu, select MODE MENU →
CAMERA → FUNCTION → BLACK &
WHITE or SEPIA and press ⑨.**
☞ "How to use the menus" (P. 28)
● Press ⑨ again to exit the menu.
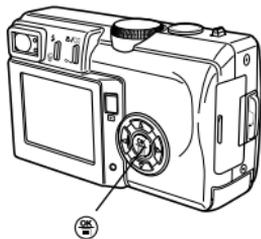
> ⚠️ **Note**
> • WB cannot be used in FUNCTION shooting.

Advanced 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 🎤 is set to ON, sound is recorded automatically every time you take a picture.

Available modes 🎭 🎑 ▲ 🏔 😐 ✂ P A S M 🗂️

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

   ☞ "How to use the menus" (P. 28)

   ● Press ⊛ again to exit the menu.

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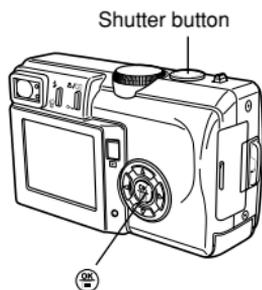
2 **When recording starts, turn the camera microphone towards the source of the sound you want to record.**

   ● The **BUSY** bar is displayed during recording.

Microphone
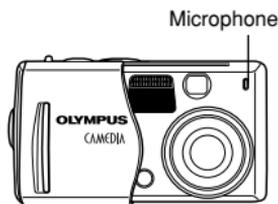
? TIPS --
   • 🎤 appears on all still pictures and movies that have recorded sound. During playback, sound is output from the speaker. The volume can be adjusted. ☞ "VOLUME – Adjusting the playback volume" (P.119)
   • Sound can be added later to still pictures. Recorded sound can also be changed. ☞ "Recording sound" (P. 98)

4

Advanced shooting

⚠️ 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 (▢ , ᴬᶠ▢ , **BKT**), Panorama shooting, two-in-one picture shooting
- Sound recording may also pick up camera noises, such as button operations, shutter movement, etc.
- If memory space is insufficient on the card, recording sound may not be possible.

4

Advanced shooting

Recording sound with movies 🎤

Sound can be recorded while shooting a movie.

Available modes 🎥

1 **In the top menu, select 🎤 → ON, and press ⊛ .**
 ☞ "How to use the menus" (P. 28)
 ● Press ⊛ again to exit the menu.

2 **Recording starts at the same time as shooting.**
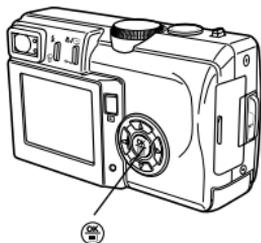
Microphone

Note
- Zoom cannot be used during movie recording. If 🎤 is set to OFF, you can use the 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 underwater housing is attached to the camera.

Available modes

1 **In the top menu, select MODE MENU → CAMERA → ACCESSORY → (underwater housing), and press .**

"How to use the menus" (P. 28)

● Press again to exit the menu.

4
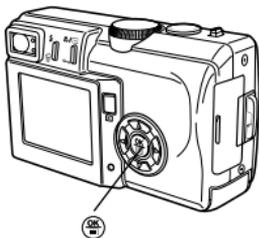
Advanced shooting

⚠ Note
• Focusing may take some time when the underwater housing is attached to the camera.
• In the mode, FULLTIME AF is canceled.

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 information on the image size for each record mode
and the number of remaining pictures and remaining recording time for the
card, see the table on page 80.

Image becomes clearer

Application	Quality (compression) / Resolution	Uncom-pressed	Low compression	High compression
Select for the print size	2816 x 2112		SHQ	HQ
	2560 x 1920 / 2272 x 1704 / 2048 x 1536 / 1600 x 1200	TIFF	SQ1 HIGH	SQ1 NORMAL
	1280 x 960 / 1024 x 768		SQ2 HIGH	SQ2 NORMAL
For small sized print and website	640 x 480			

Number of pixels increases (Number of storable pictures decreases)

● Resolution

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

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Adjusting the image quality and exposure

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● **Record mode and the number of storable pictures**

The approximate number of pictures that can be stored is determined by dividing the memory capacity of the card by the file size of the pictures. When a card is inserted into the camera, the number of storable pictures is displayed on the monitor.

Still Picture Record Modes

Record mode	Resolution		Com-pression	File format	Number of storable pictures 32MB		File size (MB)
					With sound	Without sound	
TIFF	2816 x 2112		Uncom-pressed	TIFF	—	1	Approx. 17.9
	2560 x 1920				—	2	Approx. 14.8
	2272 x 1704				—	2	Approx. 11.6
	2048 x 1536				—	3	Approx. 9.5
	1600 x 1200				—	5	Approx. 5.8
	1280 x 960				—	8	Approx. 3.7
	1024 x 768				—	13	Approx. 2.4
	640 x 480				—	34	Approx. 0.9
SHQ	2816 x 2112		Low com-pression	JPEG	7	7	Approx. 4.4
HQ	2816 x 2112		High com-pression		21	21	Approx. 1.5
SQ1	2560 x 1920	HIGH	*		8	8	Approx. 3.7
		NORMAL			25	26	Approx. 1.2
	2272 x 1704	HIGH			11	11	Approx. 2.9
		NORMAL			32	33	Approx. 1.0
	2048 x 1536	HIGH			13	13	Approx. 2.3
		NORMAL			39	40	Approx. 0.8
	1600 x 1200	HIGH			22	22	Approx. 1.4
		NORMAL			62	66	Approx. 0.5
SQ2	1280 x 960	HIGH			34	35	Approx. 0.9
		NORMAL			94	104	Approx. 0.3
	1024 x 768	HIGH			52	55	Approx. 0.6
		NORMAL			132	153	Approx. 0.2
	640 x 480	HIGH			124	142	Approx. 0.2
		NORMAL			284	398	Approx. 0.1

*HIGH uses low compression/NORMAL uses high compression

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Adjusting the image quality and exposure

Movie record modes

Movie data is stored until the card is full.

● Remaining recording time on the card that you are using is displayed in the movie ($\mathfrak{B}$) mode.

Record mode	Resolution
HQ	320 x240 (15 frames/sec.)
SQ	160 x120 (15 frames/sec.)

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 monitor does not change even when you take pictures or stored images are erased.

Selecting still picture record modes

Available modes | AUTO ☺ ☯ ▲ ♨ 🏖 ✎ P A S M 🆆

1 **In the top menu, select MODE MENU →**
PICTURE → ⬛ → TIFF, SHQ, HQ, SQ1 or
SQ2. Press ⬙.

☞ "How to use the menus" (P. 28)

● To select a resolution for TIFF, SQ1 or SQ2, set the mode dial to any of the positions except AUTO.

● ⬛ is displayed on the top menu as a shortcut menu, press the arrow pad in the same direction as the arrow shown next to ⬛. ☞ "SHORT CUT" (P. 105)

When you selected SHQ or HQ

Go to step 3.

P 1/800 F2.8 0.0

HQ 2816x2112
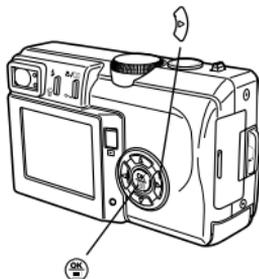
Record mode

2 **When you selected TIFF in step 1**
   Press ⊚⊚ **to select a resolution.**

TIFF
2816x2112
2560x1920
2272x1704
2048x1536
CANCEL◆⊡ SELECT◆⊟ GO◆OK
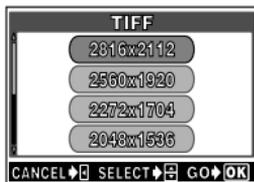
When you selected SQ1 or SQ2 in step 1

① **Press** ⊚⊚ **to select a resolution. Press** ⟩ **.**
② **Press** ⊚⊚ **to select HIGH or NORMAL.**

SQ1	
2560x1920 ▶	HIGH
2272x1704	NORMAL
2048x1536	
1600x1200	
CANCEL◆⊡ SELECT◆⊟ GO◆OK	

SQ2	
1280x960 ▶	HIGH
1024x768	NORMAL
640x480	
CANCEL◆⊡ SELECT◆⊟ GO◆OK	
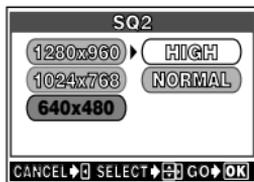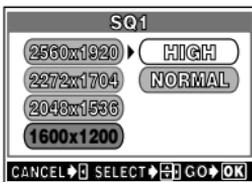
3 **Press** ⊛ **to save the setting.**
   ● Press ⊛ again to exit the menu.

Selecting movie record modes

Available modes ▷ 😯

1 **In the top menu, select MODE MENU →**
   PICTURE → ◀‖: **→ HQ or SQ. Press** ⊛ **.**
   ☞ "How to use the menus" (P. 28)
   ● Press ⊛ again to exit the menu.

◀‖:
HQ 320 x 240
SQ 160 x 120
CANCEL◆⊡ SELECT◆⊟ GO◆OK

5

Adjusting the image quality and exposure
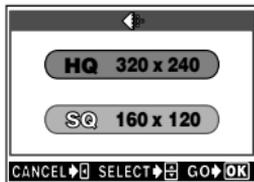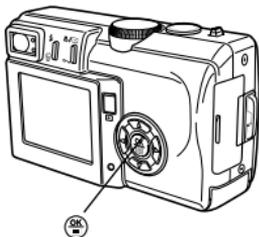
ISO sensitivity

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.

64/100/200/ : With a lower ISO setting, you can shoot clear, sharp images in
400 daylight. With a higher ISO setting, you can shoot in dark places.

Available modes | 🎭 🕐 🔺 🏕 🖼 ⚒ P A S M 🖀 🎥

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. 28)
   ● Press ⊛ again to exit the menu.
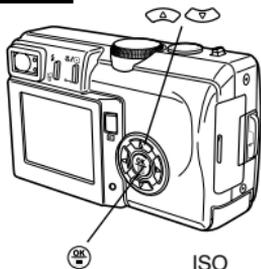
Modes & ISO Sensitivity

Modes ISO	🎭 🕐 🔺 🏕 🖼 ⚒ P	A S M	🖀 *	🎥
AUTO	√	—	√	√
64	√	√	√	√
100	√	√	√	√
200	√	√	√	√
400	√	√	√	√

√: Available, —: Not available, ▭ Factory default setting

* Available ISO sensitivities and the factory default settings depend on the shooting mode
(**P**, **A**, **S** or **M**) registered in the 🖀 mode.

> ⚠ • Higher ISO settings produce more electrical noise.
> Note • 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.

Exposure

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.

Available modes 🎭 ⚡ ▲ 🏔 😊 🔧 P A S ⅯⓎ 📽

1 Press ◁▷ to compensate the exposure.

Adjusts towards –
(images become darker)

Adjusts towards +
(images become brighter)
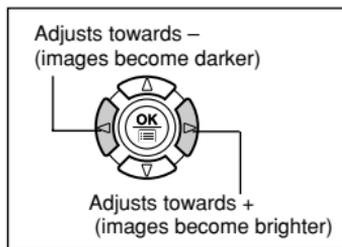
P 1/800 F4.8 −2.0	P 1/200 F4.8 0.0	P 1/50 F4.8 +2.0
−2.0	**0.0** **(Factory default setting)**	**+2.0**

? 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.

! Note

• If the flash is used, the image brightness (exposure) may differ from the intended brightness.

• Exposure compensation cannot correct the image if the surroundings of the subject are extremely bright or dark.

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Adjusting the image quality and exposure

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White balance

WB

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.

Available modes 〔 🧑 🈴 ▲ 🏠 😎 ⚒ P A S M 🗝 〕

1. **In the top menu, select MODE MENU →
   PICTURE → WB. Press** 〉 **.**

2. **Press** ⎚⎚ **to select the best WB for
   your shooting conditions. Press** 🆗 **.**
   ☞ "How to use the menu" (P. 28)
   ● Press 🆗 again to exit the menu.
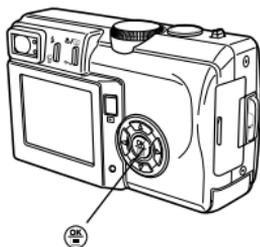
Available modes 〔 😎 〕

1. **In the top menu, select WB.**

2. **Press** ⎚⎚ **to select the best WB for
   your shooting conditions. Press** 🆗 **.**
   ☞ "How to use the menu" (P. 28)
   ● Press 🆗 again to exit the menu.

White balance

P **1/800** **F2.8** **0.0**

HQ 2816×2112

AUTO
(No indication) : The white balance is adjusted automatically so that colors look natural irrespective of the light source.

☀ **(Sunlight)** : For natural colors under a clear sky.
☁ **(Overcast)** : For natural colors under a cloudy sky.
💡 **(Tungsten)** : For natural colors under tungsten lighting.
🔆 **(Fluorescent)** : For natural colors under fluorescent lighting.

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Adjusting the image quality and exposure

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⚠ Note

- Set white balance to AUTO for normal shooting.
- White balance may not be effective under certain 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.


SHARPNESS

This function adjusts the sharpness of the image.

5

Adjusting the image quality and exposure

| Available modes | 🔴 🎇 ▲ 🏠 🖼 ✂ P A S M 🔲 🎥 |

1 In the top menu, select MODE MENU → PICTURE → SHARPNESS, and press ⊚ .
☞ "How to use the menus" (P. 28)

2 Press ⊚⊚ to adjust the sharpness between +2 and –2.

- **To increase the sharpness (+) :** 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 (–) : 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.
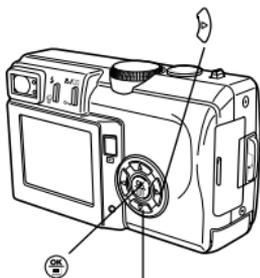
Adjusts towards –

Adjusts towards +

⚠ Note

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

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CONTRAST

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

Available modes | 🧑 | 🎭 | 🏔 | 🏠 | 🖼 | 🔧 | P | A | S | M | 🗂 | 🎬

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

   ☞ "How to use the menus" (P. 28)

2 **Press ⊙⊘ to adjust the contrast between +2 and –2.**

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

   To reduce the contrast (–) : 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.

Adjusts towards –

Adjusts towards +

5

Adjusting the image quality and exposure

87
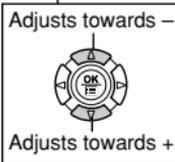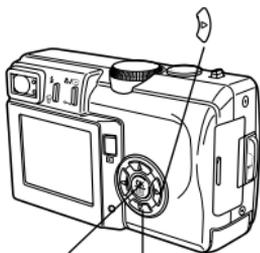
NOISE REDUCTION

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.

Available modes | P | A | S | M | ⅿʸ |

1 **In the top menu, select MODE MENU →
   CAMERA → NOISE REDUCTION → ON,
   and press ⊛ .**
   ☞ "How to use the menus" (P. 28)
   ● Press ⊛ again to exit the menu.
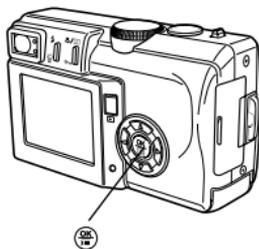
⚠ Note
• When the 🌙 mode is set, NOISE REDUCTION is fixed to ON.
• When NOISE REDUCTION is set to ON, the camera implements noise-reducing processes after each shot. For this reason, shooting time is approximately twice as long as usual. During this time, you cannot continue shooting.
• When NOISE REDUCTION is set to ON, sequential shooting (🖵 , ᴬꜰ🖵 , **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.

6 Playback

Viewing still pictures

**1 Press the ▶ (playback) button.**
- The monitor turns on and displays the last picture taken. (Single-frame playback)
- Even if you press ▶ in the shooting mode, the camera enters the playback mode instantly.

Shutter button

Arrow pad

▶ button

2 Use the arrow pad to play back other pictures.
- The 🎥 mark is displayed on movies.
  ☞ P. 94

Jumps to the picture 10 frames back.

Displays the previous picture. ←(OK)→ Displays the next picture.
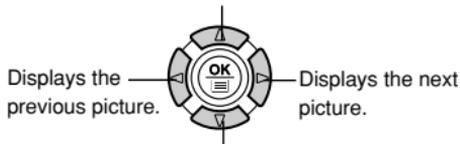
Jumps to the picture 10 frames ahead.

3 Press ▶ to cancel playback.
- The monitor and camera turn off.
- If you start playback while in the shooting mode in step 1, pressing ▶ again resumes the shooting mode. Pressing the shutter button halfway also resumes the shooting mode.

⚠ **Note**
- If no operation is performed for about 3 minutes, the camera automatically turns off.
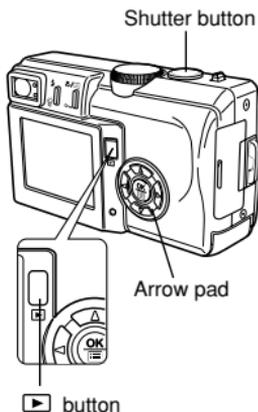
Close-up playback

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

Zoom lever

1 Display the picture you want to enlarge.
● Pictures with ♫ cannot be enlarged.

2 Push the zoom lever toward ◌ .
● Each time you push the zoom lever towards
  ◌ , the picture is enlarged in steps of 1.5, 2,
  2.5, 3, 3.5 or 4 times.
● Pressing the arrow pad while the enlarged
  picture is displayed moves the picture in the
  corresponding direction.

Arrow pad
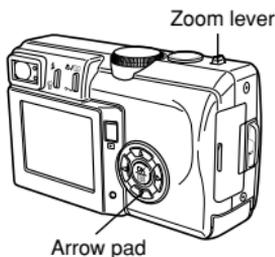
6

Playback

Pushing the zoom lever
towards ◼◼ returns to
the picture to the original
size (1x).

W ◻◻ T
◼◼   ◌

2.5x

W ◻◻ T
◼◼   ◌

3.5x

W ◻◻ T
◼◼   ◌
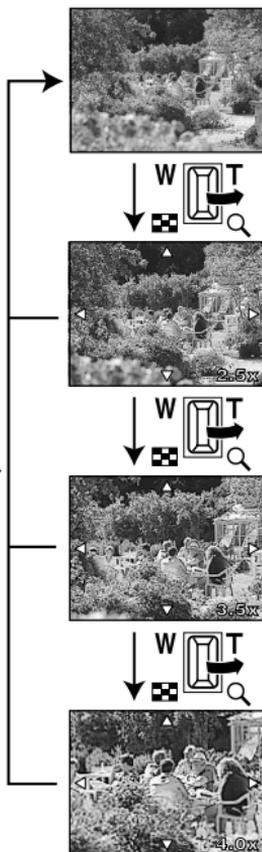
⚠ Note
• If slideshow is attempted during close-up
  playback, close-up playback is canceled.
• You cannot save the enlarged image.

4.0x

90

Index display

This function lets you show several pictures on the monitor at the same time.
This is useful when you want to quickly search a number of pictures to find a
particular image.

You can also select the number of frames displayed on the monitor.

☞ "Selecting the number of pictures" (see below)

**1 Push the zoom lever toward ▣▣ during
single-frame playback.**

● Pictures appear in the index display.

● Pressing the arrow pad selects a frame during
index display.

- ⟨ⅼ⟩ : Moves to the previous frame.
- ⟨ⅼ⟩ : Moves to the next frame.
- ◁▷ : Jumps to the previous index display (the
   frames preceding the top left frame).
- ▽ : Jumps to the next index display (the
   frames following the bottom right frame).

Zoom lever

Arrow pad

Pushing the zoom lever towards
Q returns to single-frame playback.

6

Playback
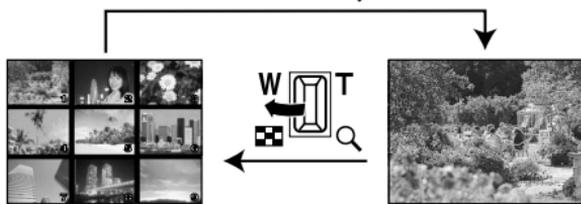
Selecting the number of pictures

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

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

☞ "How to use the menus" (P. 28)

● Press ⓔ again to exit the menu.

4-frame index display

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Slideshow

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

1 Display a still picture.

2 Press ⬤ to select 🖻 in the top menu.
● The slideshow starts.
● If slideshow is attempted during close-up playback, the picture returns to the original size (1x) and slideshow starts.
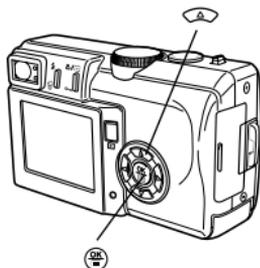
3 Press ⬤ to stop the slideshow.
● The slideshow will not stop until you cancel it by pressing ⬤ .
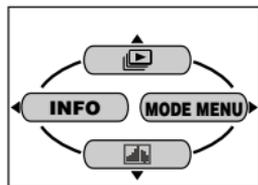
⚠ Note
• You are recommended to use the optional AC adapter when running a slideshow for a long period of time. If a battery is used, the camera will stop the slideshow after about 30 minutes and the camera will turn off.

6

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.

1 Display the picture you want to rotate.
● Pictures with ℘ cannot be rotated.

2 In the top menu, select MODE MENU → PLAY → ⤴ , and press ⟩ .
☞ "How to use the menus" (P. 28)

3 Press ⟨⟩ to select +90° or –90°, and press ⊛ .
● The rotated image is saved.
● Press ⊛ again to exit the menu.

🔋 100-0024 HQ	🔋 100-0024 HQ	🔋 100-0024 HQ
'04.12.23 21:56 24	'04.12.23 21:56 24	'04.12.23 21:56 24
[–90°]	[0°]	[+90°]

6
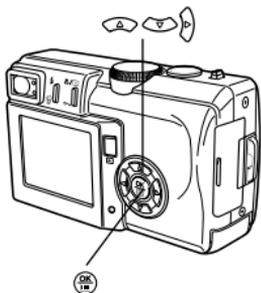
Playback

⚠ Note
• New picture orientations are saved even when the power is turned off.
• Protected pictures cannot be rotated. ☞ P. 100

Viewing movies

This function lets you play back or edit movies.

1 Display a picture with 🎬 . ⟹ **P. 89**
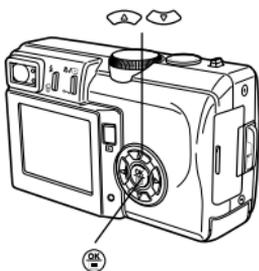
2 In the top menu, select MOVIE PLAY.
⟹ "How to use the menus" (P. 28)
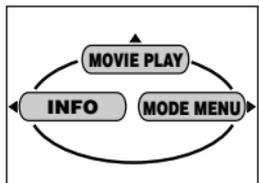
3 Press ⊙⊙ to select MOVIE PLAYBACK.
MOVIE

PLAYBACK: Plays back movies.
INDEX: Displays movies as indexes of 9 still frames. ⟹ P. 96

4 Press 🆗 to start playback.
● When movie playback ends, the display automatically returns to the beginning of the movie.
● You can fast forward/reverse during playback.

⏵ : Fast forward

Each press of the button changes the speed in the following sequence:
x2 → x20 → x1

⏴ : Fast reverse

Each press of the button changes the speed in the following sequence:
x2 → x20 → x1

5 The MOVIE PLAYBACK screen is displayed.
Press ⊘⊙ **to select an item.**

MOVIE PLAYBACK
PLAYBACK
FRAME BY FRAME
EXIT
SELECT♦ ⊟   GO♦ OK

PLAYBACK : Plays back the entire movie
again.

FRAME BY
FRAME   : Plays back the movie manually
one frame at a time.

EXIT   : Cancels movie playback.

6 Press ⊛ to start your choice.
● When EXIT is selected, the MOVIE PLAY
screen appears. To exit, press ◁.

How to use the arrow pad when FRAME BY FRAME is selected

⊘ : Displays the first frame of the movie.

⊙ : Displays the last frame of the movie.

◁ : Every time you press the button, the next frame appears. The movie
can be displayed continuously by holding the button down.

◁ : Every time you press the button, the previous frame appears. The
movie can be displayed continuously in reverse by holding the button
down.

⊛ : Displays the MOVIE PLAYBACK screen.

⚠ 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.

6

Playback

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INDEX — Creating an index

Movies can be displayed as indexes of 9 still frames. Indexes can be saved on the card as still pictures. Indexes are not stored in the same record mode as movies (see below).

Record mode when the movie is shot	Record mode when stored as an index
HQ	SQ2 (1024 x 768)
SQ	SQ2 (640 x 480)

3 Select INDEX in step 3 on page 94. Press ⊛ .
- The INDEX screen appears.
- The card access lamp blinks while the movie is being accessed.

4 Press ⊚⊚ to select OK, and press ⊛ .
- The index is saved on the card.
- When CANCEL is selected, the MOVIE PLAY screen appears.
- To exit the MOVIE PLAY screen, press ◁ .

Card access lamp

MOVIE PLAY

MOVIE PLAYBACK

INDEX

CANCEL◆◻ SELECT◆⊟ GO◆OK

INDEX

OK

CANCEL

SELECT◆⊟ GO◆OK
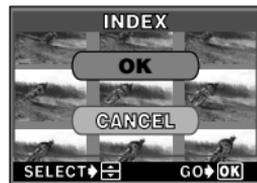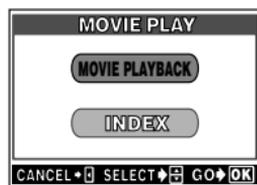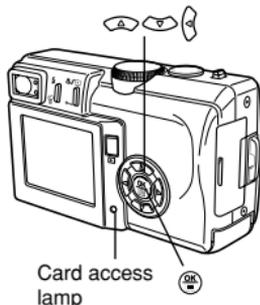
Note
- The interval between automatically selected frames varies depending on the recording time of the movie.
- INDEX is not available if there is not enough memory on the card.

6

Playback

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.

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.

AV cable

A/V OUT jack   Connector
(MONO)   cover
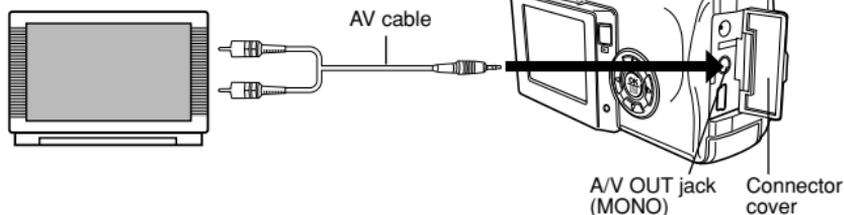
2 **Turn the TV on and set it to the video input mode.**
● For details of switching to video input, refer to your TV's instruction manual.

3 Press the ▶ (playback) button to turn the camera on.
● The last picture taken is displayed on the TV. Use the arrow pad to select the picture you want to display.

> **TIPS** ---------------------------------------
> • The close-up playback, index display, slideshow and other playback functions can also be used on a TV screen.
> • You are recommended to use the optional AC adapter when using the camera with a TV.

> ⚠ • Make sure that the camera's video output signal type is the same as
> Note   the TV's video signal type. ☞ "VIDEO OUT – Selecting the video signal type" (P. 122)
>   • The camera's monitor turns off automatically when the AV cable is connected to the camera.
>   • 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.

6

Playback

Recording sound 🎤

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

1 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. 28)

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.
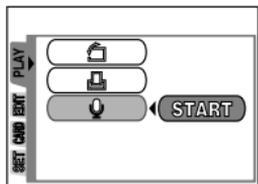
> ⚠️ Note
> • To obtain the optimum sound, the microphone should be placed no
>   farther than 1 m (3.3 ft.) away from the subject.
> • If you re-record the sound, the original sound is erased.
> • You may not be able to record sound when there is insufficient card
>   memory (the CARD FULL message is 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.

Editing still pictures

This function lets you change the image file size to 640 x 480 or 320 x 240 and stores the picture as a new file. Use this function to make the image file size smaller needed for instances such as attaching the picture to e-mail.

1 **Display the still picture you want to edit.**

2 **In the top menu, select MODE MENU →
   EDIT → ▣.**

   ☞ "How to use the menus" (P. 28)

   ● The ▣ screen appears.
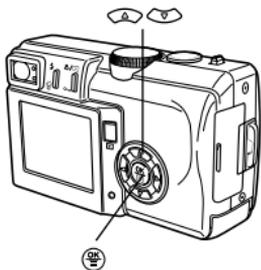
3 **Press ⊙⊙ to select the file size and
   press ⊛.**

   ● A bar is displayed to show editing progress
   and the screen returns to normal display.
   ● To cancel resizing, select CANCEL and
   press ⊛.

▣
640x480
320x240
CANCEL
EXIT ◆ ▣ SELECT ◆ ⬍ GO ◆ OK
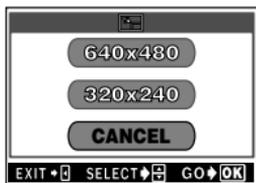
⚠ Note
• In the following cases, EDIT is not available:
  – The card does not have enough memory
  – Movie mode
  – Pictures recorded in TIFF
  – Pictures processed on a computer
• The file size 640 x 480 cannot be selected for a picture shot in 640 x 480.

6

Playback

Protecting pictures

It is highly recommended that you protect important pictures to avoid accidentally erasing them. Protected pictures cannot be erased by the single-frame/all-frame erase function.

1 **Display the picture you want to protect.**

2 **Press the ⛒ (protect) button. The picture is now protected.**
- The ⛒ mark appears on the protected picture.
- To cancel protection, press ⛒ again.

⛒ button

Protect mark

HQ

⚠ Note
• Protected pictures cannot be deleted with the single-frame/all-frame erase functions, but they can be deleted with the FORMAT function.

Erasing pictures

🗑 🗑

Recorded pictures can also be erased. You can select either single-frame erase or all-frame erase.

Notes:
• 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. 100)

Single-frame erase

🗑

This function only erases the picture displayed on the monitor. Erasing further pictures must be done one-by-one if using this function.

1 **Display the picture you want to erase.**
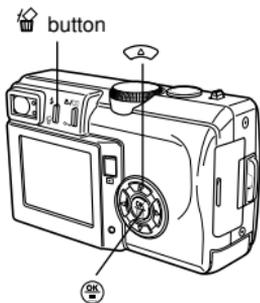
🗑 button

2 **Press the 🗑 (erase) button.**
• The 🗑 ERASE screen is displayed.

3 **Press ⊲⊳ to select YES.**
• To cancel erasing, select NO and press ⊛.

4 **Press ⊛ to erase the picture.**
• The picture is erased and the menu disappears.

🗑 ERASE

YES

NO

SELECT◆⬌   GO◆OK
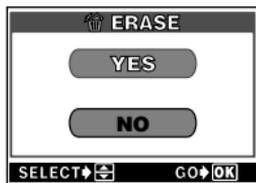
All-frame erase 🗑

This function erases all still pictures and movies on the card.

**1 In the top menu, select MODE MENU →
CARD → CARD SETUP and press ⊙ .**
☞ "How to use the menus" (P. 28)
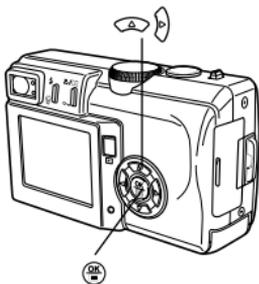
**2 Press ⌢ to select 🗑 ALL ERASE, then
press ⓘ .**

> CARD SETUP
> 🗑 ALL ERASE
> 📷 FORMAT
> EXIT ◆🔲 SELECT◆🔢 GO◆OK

3 Press ⌢ to select YES, then press ⓘ .
● The **BUSY** bar is displayed to show the
progress of erasing and all the pictures are
erased.

> 🗑 ALL ERASE
> ⚠ CAUTION ERASING ALL
> YES
> NO
> SELECT◆🔢 GO◆OK

> BUSY ▭▭▭▭▭
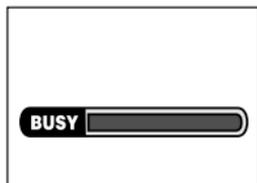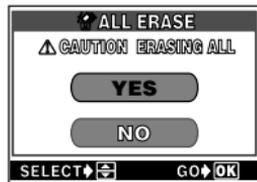
7 Useful functions

ALL RESET — Saving the camera's settings

This function lets you save the current camera settings when the power is turned off. Available functions for 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: When ALL RESET is set to ON, even if you change the record mode setting to SQ1, it 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.

Available modes	🗣 🔁 ▲ 🏔 📷 🔧 P A S M ᴹⱽ 🎥 ►

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

   ☞ "How to use the menus" (P. 28)

   ● Press 🛞 again to exit the menu.
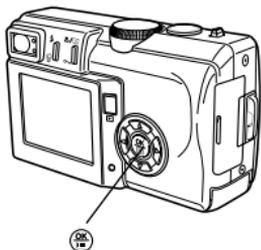
⚠ Note
• The settings for MY MODE SETUP and functions on the SETUP tab in MODE MENU (ALL RESET, 🔆⬚ , �»)) , etc.) are not returned to the factory default settings even when ALL RESET is set to ON.

7

Useful functions

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ALL RESET: Functions that reset to factory default settings when set to ON

Functions	Factory default settings	Ref. page
SCENE	▲	P. 36
FNo	F2.8	P. 58
SHUTTER	1/1000	P. 59
✚	±0	P. 84
MONITOR	ON	P. 45
ZOOM	38mm	P. 51
FLASH MODE[*1]	AUTO[*2]	P. 53
♣/□ [*1]	OFF	P. 62, 63
♦/⌚	OFF	P. 65, 66
DRIVE	□	P. 68
ISO	AUTO	P. 83
⚡	±0	P. 57
NOISE REDUCTION	OFF	P. 88
DIGITAL ZOOM[*1]	OFF	P. 52
FULLTIME AF	OFF	P. 61
ACCESSORY	OFF	P. 78
♣	OFF	P. 64
♦ **(still pictures)**	OFF	P. 75
♦ **(movies)**	ON	P. 77
FUNCTION	OFF	P. 74
INFO	OFF	P. 111
▥	OFF	P. 113
❄	HQ	P. 79
WB	AUTO	P. 85
SHARPNESS	±0	P. 86
CONTRAST	±0	P. 87

*1 Even when ALL RESET is set to OFF, settings may not be saved depending on the shooting mode.

*2 The factory default setting varies depending on the shooting mode.

7

Useful functions

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SHORT CUT

Two shortcut menus (A, B) on the top menu can be replaced with the functions listed in the table below when the camera is in a shooting mode other than ▲UTO and 🎥.

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

Default setting

A: ✦ʘ/🔦
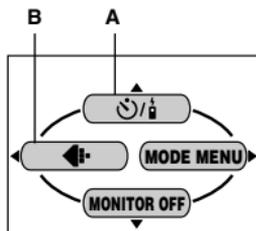
B: ◄፧⊱

Available menu functions	Ref. page
SCENE	P. 36
✦ʘ/🔦	P. 65, 66
DRIVE	P. 68
ISO	P. 83
🔆	P. 57
NOISE REDUCTION	P. 88
DIGITAL ZOOM	P. 52
FULLTIME AF	P. 61
ACCESSORY	P. 78
🎤 (still pictures)	P. 75

Available menu functions	Ref. page
🌷	P. 64
PANORAMA	P. 71
2 IN 1	P. 73
FUNCTION	P. 74
INFO	P. 111
📊	P. 113
◄፧⊱	P. 79
WB	P. 85
SHARPNESS	P. 86
CONTRAST	P. 87

Registering functions to the shortcut menus

Assign functions to the A and B positions on the top menu.
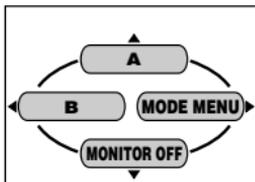
Available modes 🦟 🖼 ▲ 🏔 🎬 ✖ P A S M 🕅

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

☞ "How to use the menus" (P. 28)
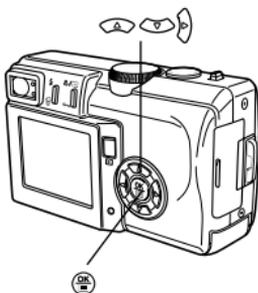
2 Press 🔾🔾 to select A or B, then press 🕅.
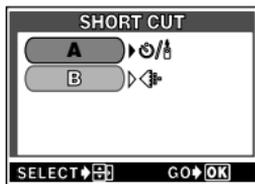
3 Press 🔾🔾 to select the function you want to register, then press 🕮.

● The function is registered in the shortcut menu.

● Press 🕮 again to exit the menu.

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Useful functions

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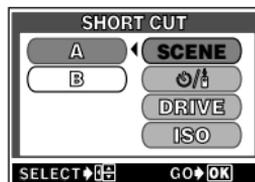
Using the shortcut menu

Available
modes

🎭 🖼 🏔 🏠 📷 ✂ P A S M My

1 **Press ⊛ to display the top menu.**
● The function you have registered in the
shortcut menu appears on the top menu.

2 **Press ◌ or ◌ to select the function.**
● The monitor jumps directly to the setting
screen for that menu function.
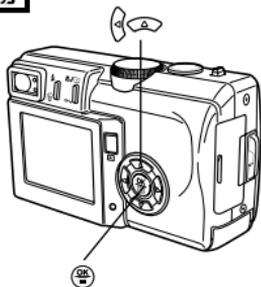
Ex: When SCENE is assigned to shortcut menu A

OK
📋

Press this
button.

↑
SCENE
◀ ▶ **MODE MENU**
MONITOR OFF
↓
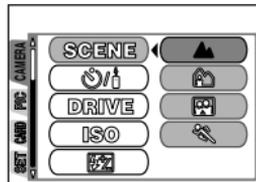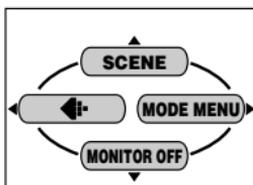
Pressing ◌ takes you directly
to the SCENE screen.

CAMERA
SCENE ◀ 🏔
🕐 🏠
DRIVE 📷
ISO ✂
📷

⚠
Note

• You cannot assign different functions to the shortcut menus for each
mode.

7
Useful functions

MY MODE SETUP — Registering customized settings in the � mode

This lets you customize function settings for shooting and register them in the � mode on the mode dial. When the camera is in **P**, **A**, **S** or **M** mode, you can also register the current settings in the ⑬ mode so that they can be called up any time for shooting with this mode.

When the mode dial is set to ⑬ , your customized settings are activated.

Available functions for MY MODE SETUP and factory default settings

Functions	Factory default settings	Ref. page	Functions	Factory default settings	Ref. page
P/A/S/M	P	P. 37, 38	**DIGITAL ZOOM**	OFF	P. 52
FNo	F2.8	P. 58	**FULLTIME AF**	OFF	P. 61
SHUTTER	1/1000	P. 59	**ACCESSORY**	OFF	P. 78
🔆	0.0	P. 84	🎤 **(still pictures)**	OFF	P. 75
MONITOR[*1]	ON	P. 45			
ZOOM[*2]	38 mm	P. 51	🌺	OFF	P. 64
FLASH MODE	AUTO	P. 53	**FUNCTION**	OFF	P. 74
🌷/⊡	OFF	P. 62, 63	**INFO**	OFF	P. 111
⟳/🔦	OFF	P. 65, 66	▥	OFF	P. 113
DRIVE	☐	P. 68	📧	HQ	P. 79
ISO	AUTO	P. 83	**WB**	AUTO	P. 85
🔅	0.0	P. 57	**SHARPNESS**	±0	P. 86
NOISE REDUCTION	OFF	P. 88	**CONTRAST**	±0	P. 87

*1 This sets the monitor to on or off when the camera is turned on.
*2 Available zoom positions are 38/50/70/114 mm (those numbers are 35 mm film equivalent).

Available modes | 🎭 🖼 🏔 🏠 🎬 🔧 P A S M ⓂY

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

   ☞ "How to use the menus" (P. 28)
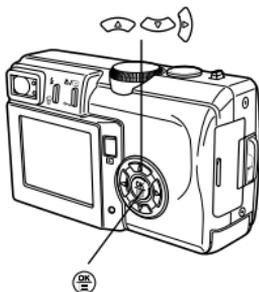
2 **Press** ◎◎ **to select an item you want to
set, then press** Ⓟ**.**

   CURRENT Registers the current camera
   settings.
   RESET Restores the factory default
   settings.
   CUSTOM Registers settings one by one.

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Useful functions

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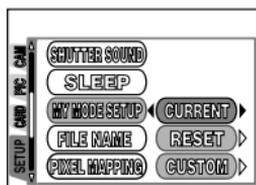
3 **When selecting CURRENT in Step 2**

Press ⏴⏵ **to select SET, then press** ⏺ **.**

● The current camera settings are registered in the mode.
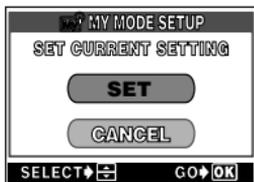
When selecting RESET in Step 2

Press ⏴⏵ **to select ALL RESET, then press** ⏺ **.**

● The registered settings are canceled to return to the factory default settings.

When selecting CUSTOM in Step 2

Press ⏴⏵ **to select the item you want to register in the mode, then press** ⏵ **.**

● Available CUSTOM items ☞ "Available functions for MY MODE SETUP and factory default settings" (P. 108)
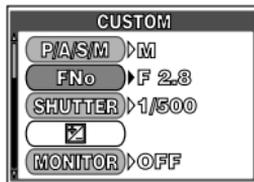
Press ⏴⏵ **to change the setting, then press** ⏺ **.**

● The setting is saved.
● You can also change the other CUSTOM settings.
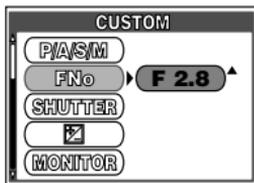
4 **When you have made all the settings you want, press** ⏺ **.**

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

Note • When CURRENT is selected, the zoom position is set to one of the four zoom positions available in MY MODE SETUP. The value closest to the current zoom position will be automatically selected.

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Useful functions

INFO — Displaying shooting information on the monitor

This function lets you display detailed shooting information on the monitor for 3 seconds. For details on the information displayed, refer to "Monitor indications" (P. 10).

Available modes

1 **In the top menu, select MODE MENU →
CAMERA → INFO → ON or OFF. Press .**

☞ "How to use the menus" (P. 28)

● Even when INFO is set to OFF, the detailed information is displayed for around 3 seconds after you have made the function settings.

● Press again to display the menu.

Example: Indications during shooting (for still pictures)

P 1/800 F2.8 +0.3

HQ 2816×2112

When INFO is OFF

P 1/800 F2.8 +0.3

+2.0

HQ 2816×2112

When INFO is ON

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Useful functions

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Available modes ▶

1 **Press ⟨ in the top menu to display the full amount of shooting information on the monitor (ON).**

● To turn INFO off, press ⓐ again to bring up the top menu and press ⟨ (OFF).
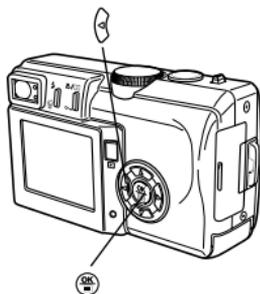
Example: Indications during still picture playback

When INFO is OFF

When INFO is ON

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Useful functions

⚠
Note

• If the picture has been taken with a different camera, not all the information may be displayed even 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.

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Histogram display — Displaying the brightness distribution of still pictures

While you are taking still pictures or playing them back, you can display a histogram on the monitor that shows the brightness and contrast of your subject. You can also display the darkest shadows and brightest highlights directly on the image.

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

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

Histogram display during shooting

When the image is bright

P 1/800 F2.8 +2.0
HQ

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

When the image is dark

P 1/800 F2.8 −2.0
HQ
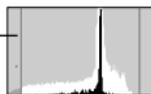
If the peak fills too much of the left frame, the image will appear mostly black.

Histogram display during playback

HQ
F2.8
1/250
0.0
WB AUTO
ISO100
'04.09.12 12:30   30

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Useful functions

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Available modes 🎭 🖼 ⛰ 🏔 🎬 🔧 P A S M 🎥

1 **In the top menu, select MODE MENU →
CAMERA → 📊 → ON, then press ⑨ .**

☞ "How to use the menus" (P. 28)

● Press ⑨ again to exit the menu.

Available modes ▶

1 **Press ⌄ in the top menu to to display the
histogram.**

● To turn the histogram off, press ⑨ again to
bring up the top menu and press ⌄ (OFF).

⚠ Note
• The histogram is not displayed in the following situations even if
histogram display is set to ON:
  In the **M** mode, during panorama shooting, during two-in-one (2 IN
  1) shooting.
• You can turn the histogram on and off during exposure compensation.
  ☞ "Exposure compensation" (P. 84)
• The histogram displayed during shooting may differ from that
  displayed during playback.
• It may not be possible to display a histogram for pictures taken with
  another camera.

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Useful functions

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CARD SETUP — Formatting cards 📆

This function lets you format a card. Formatting prepares cards to receive data. Olympus CAMEDIA-brand cards are highly recommended for use with this camera. If you are going to use non-OLYMPUS cards or cards formatted by other devices such as a computer, you must format them with the camera before use. **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.**

Available modes	AUTO

1 **In the top menu, select CARD SETUP.**
   ☞ "What are the menus?" (P. 27)

Available modes	🏃 🎬 🏔 🏠 🖼 ✎ P A S M MY 🎥

1 **In the top menu, select MODE MENU → CARD → CARD SETUP. Press 📲.**
   ☞ "How to use the menus" (P. 28)

Available modes	▶

1 **In the top menu, select MODE MENU → CARD → CARD SETUP. Press 📲. Press ⬯ to select 📆 FORMAT, then press 📷.**
   ☞ "How to use the menus" (P. 28)

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Useful functions
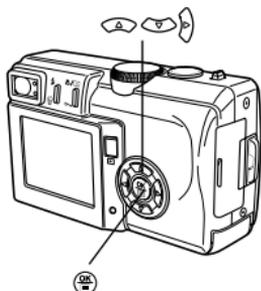
2 **Press ◁▷ to select YES.**
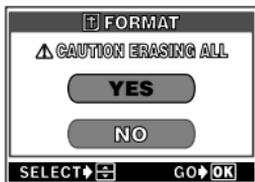
3 **Press ⊛ to start formatting.**
● The **BUSY** bar is displayed to show the progress of formatting.
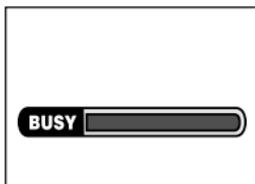
⚠ Note
• Do not perform any of the following actions during formatting as they may render the card unusable:

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

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Useful functions

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Monitor brightness adjustment 🖵

This function lets you adjust the brightness of the monitor.

Available modes 🧑 🎯 🏔 🏕 🎬 ⚒ P A S M My 🎥 ▶

1 **In the top menu, select MODE MENU →
   SETUP → 🖵 , and press ⊙ .**
   ☞ "How to use the menus" (P. 28)
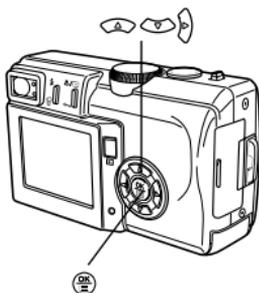
2 **Press ⊙⊙ to adjust the brightness of
   the monitor, and when you have set the
   desired level, press ⓘ .**

   ● Pressing ⊙ brightens the monitor, and
     pressing ⊙ darkens it.
   ● Press ⓘ again to exit the menu.

Beep — Setting the warning tone ◻))

You can select the volume of the beep sound used for warnings from OFF,
LOW, or HIGH. You can turn the sound off completely by setting OFF.

Available modes 🧑 🎯 🏔 🏕 🎬 ⚒ P A S M My 🎥 ▶

1 **In the top menu, select MODE MENU → SETUP → ◻)) → OFF, LOW
   or HIGH. Press ⓘ .**
   ☞ "How to use the menus" (P. 28)
   ● Press ⓘ again to exit the menu.

SHUTTER SOUND — Setting the shutter sound

You can select from either one of 2 shutter sounds emitted when the shutter button is pressed. You can also select the volume of each kind of sound from LOW or HIGH. The factory default settings are 1 for the kind of sound and LOW for the volume. Select OFF when you want to turn the sound off completely.

Available modes

| 🏃 | 🌃 | 🏔 | 🏠 | 🎬 | 🔧 | P | A | S | M | My |

1 **In the top menu, select MODE MENU →**
SETUP → SHUTTER SOUND, and press 〉.

☞ "How to use the menus" (P. 28)
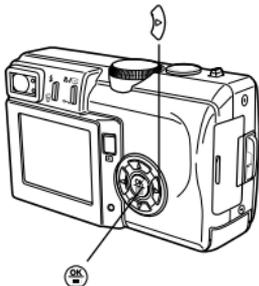
2 **Select 1 or 2 and press 〉. Then select LOW**
or HIGH and press 🔘 .

● To turn the sound off completely, select OFF and press 🔘 .

● Press 🔘 repeatedly until the menu disappears.

```
SHUTTER SOUND
  OFF
   1  ◄  LOW
   2     HIGH
      SELECT◆⬛ GO◆OK
```
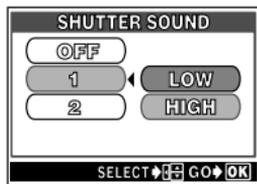
VOLUME — Adjusting the playback volume

You can adjust the volume when playing back a still picture with sound or a movie. You can select the volume from LOW or HIGH. Select OFF when you want to turn the sound off completely.

Available modes ▶️

1 In the top menu, select MODE MENU → SETUP → VOLUME, and press ⏵.

☞ "How to use the menus" (P. 28)

2 Press ⬆️⬇️ to select the volume level, then press 🆗.

● Press 🆗 again to exit the menu.
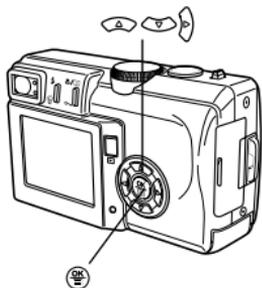
PW ON/OFF SETUP — Power on/off display/sound volume setting

You can select whether to display the startup/shutdown screen or adjust the sound volume when the power is turned on/off.

Available modes | 🧑 🖐 ▲ 🏔 📷 ✈ P A S M 🎨 🎥 ▶

1 **In the top menu, select MODE MENU →
SETUP → PW ON/OFF SETUP, and
press 〉 .**

☞ "How to use the menus" (P. 28)
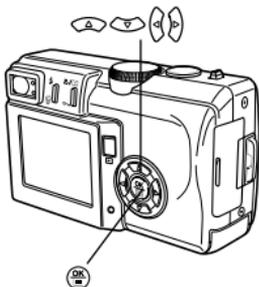
2 **Press ⬆⬇ to select SCREEN, then
press 〉 . Press ⬆⬇ to select OFF or
ON, then press 〈 .**

OFF No picture is displayed.
ON The picture is displayed.

PW ON/OFF SETUP
(SCREEN) (OFF
(VOLUME) (ON
SELECT◆⬆⬇ GO◆ OK
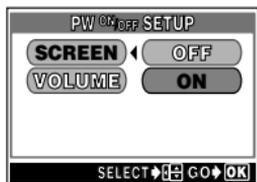
3 **Press ⬆⬇ to select VOLUME, then
press 〉 . Press ⬆⬇ to select OFF, LOW
or HIGH, then press 〈 .**

● To turn off the sound completely, select OFF.
● When you have made all the settings you
want, press 🔘 . Press 🔘 repeatedly until
the menu disappears.

PW ON/OFF SETUP
(SCREEN)
(VOLUME) (OFF
 LOW
 HIGH
SELECT◆⬆⬇ GO◆ OK

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Useful functions

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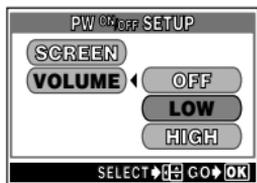
REC VIEW — Checking the picture immediately after shooting

You can select whether to display the picture you have just taken on the monitor.

ON : The picture being recorded to the card is displayed. This is useful for making a brief check of the picture you have just taken. You can release the shutter during REC VIEW.

OFF : The picture being recorded to the card is not displayed. This is useful when you want to compose your next shot using the monitor while the previous picture is being recorded.

Available modes | 🏃 | 🌠 | ▲ | 🏔 | 🎬 | 🔧 | P | A | S | M | My?

1 **In the top menu, select MODE MENU →**
  SETUP → REC VIEW → OFF or ON, and
  press 🖲 .
  ☞ "How to use the menus" (P. 28)
  ● Press 🖲 again to exit the menu.
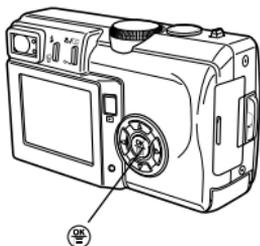
SLEEP — Sleep timer

The camera automatically enters the sleep mode (idle mode) if the time you have set has passed with no operations being performed. To activate the camera again, operate any button (press the shutter button or arrow pad, etc.).

Available modes 🎭 🕐 🏔 🏠 🎬 🔧 P A S M ᴹ🎿

1 **In the top menu, select MODE MENU → SETUP → SLEEP, then select a setting from the following: 30SEC, 1MIN, 3MIN, 5MIN or 10MIN. Press ⓧ .**

☞ "How to use the menus" (P. 28)
● Press ⓧ again to exit the menu.
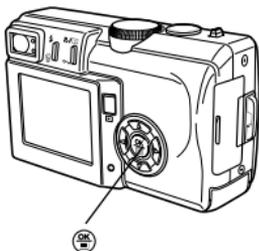
⚠ Note
• The camera always turns off if the camera is left in playback mode for about 3 minutes.

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.

Available modes 🎭 🕐 🏔 🏠 🎬 🔧 P A S M ᴹ🎿 🎥 ▶

1 **In the top menu, select MODE MENU → SETUP → VIDEO OUT → NTSC or PAL, and press ⓧ .**

☞ "How to use the menus" (P. 28)
● Press ⓧ again to exit the menu.

**TV video signal types & main regions**
Check the video signal type on your region before using the camera.

NTSC : North America, Japan, Taiwan, Korea
PAL : European countries, China

FILE NAME — Assigning a file name

When you take a picture, the camera assigns it a unique file name and saves it in a folder. The folder and file name can later be used for file handling on a computer. File names are assigned as shown in the illustration below.


All folders
DCIM
100 OLYMP
P2030001.jpg
P2030002.jpg
P2030003.jpg
P2030004.jpg

Folder name
000 OLYMP
Folder number (100 - 999)

File name
Pmdd0000.jpg

File number (0001 - 9999)
After taking 9999 pictures, the counter is reset to 0001 for the next picture, the folder number increments by 1 to name and create a new folder where the next image (file) is stored.

Day (01 - 31)

Month (10, 11, 12 are numbered A, B, C)

● **File name settings**
AUTO
Even when a new card is inserted, the folder numbers are retained from the previous card. If the new card contains an image file whose file number coincides with one saved on the previous card, the new card's file numbers start at the number following the highest number on the previous card.
RESET
When a new card is inserted, folder numbers start at 100 and file numbers start at 0001. If a card containing images is inserted, the file numbers start at the number following the highest file number on the card.

Available modes | ⏱ 🖐 ▲ 🏔 📷 ✎ P A S M My⌐ ✂

1 **In the top menu, select MODE MENU →
SETUP → FILE NAME → AUTO or RESET.
Press ⓞ.**
☞ "How to use the menus" (P. 28)
● Press ⓞ again to exit the menu.
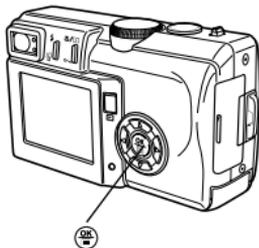
> ⚠ Note
> • When both the Folder and File No. reach their respective maximum number (999/9999), it is not possible to store additional pictures even if the card is not full. No more pictures can be taken. Replace the card with a new one.

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Useful functions

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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. After using the monitor or taking continuous shots, wait for at least one minute before using the PIXEL MAPPING function to ensure that it operates correctly.

Available modes 〇 🖻 🏔 🏢 🎞 🔧 P A S M 🕅 🎥

1 **In the top menu, select MODE MENU →
   SETUP → PIXEL MAPPING, and press ▷.**
   ☞ "How to use the menus" (P. 28)
   ● START appears.
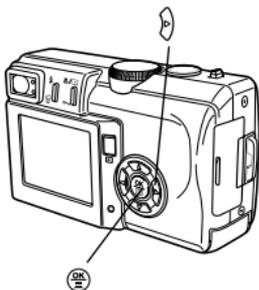
2 **Press 🛞 .**
   ● The **BUSY** bar is displayed during PIXEL MAPPING.
   ● When PIXEL MAPPING is finished, press 🛞 to exit the menu.

   BUSY [▬▬▬▬▬▬▬▬▬]
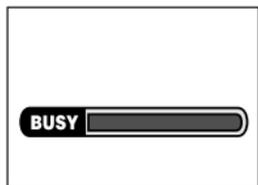
> ⚠ Note • If you accidentally turn the camera off during PIXEL MAPPING, start again from Step 1.

8 Print setting (DPOF)

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.

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. 79)

!
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, CARD FULL will be displayed and you may not be able to enter the reservation data.
- 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 (凸) does not appear when the image is displayed for full view. 凸 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.

8

Print setting (DPOF)

Applying print reservation to a card 🗗

1 Play back a still picture.
- You cannot enter 🗗 (print reservation) on pictures with 🎥 .
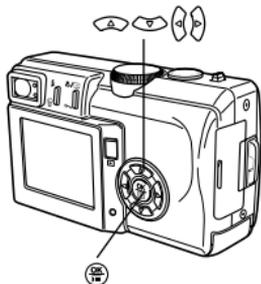
**2 In the top menu, select MODE MENU →
PLAY → 🗗 .**
- ☞ "How to use the menus" (P. 28)
- If print reserve data is already stored on the card, the PRINT ORDER SETTING screen appears. You can then reset the data or keep it. If RESET is selected, all print reserve data is canceled.

3 Press 🔼🔽 to select 🗗 or 🗗ᴬᴸᴸ . Press ⊛ .
- 🗗 : **Performs print reservation for only selected pictures and sets the number of prints and date/time. Go to step 4.**
- 🗗ᴬᴸᴸ : **Performs print reservation for all the pictures stored on the card and sets date/time. 🗗ᴬᴸᴸ makes one print for each frame. Go to step 5.**
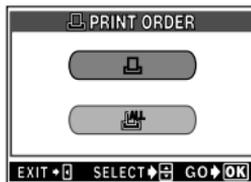
4 When you selected 🗗 in step 3
Press �左� to select a frame you want to print.
- If print reservation has already been applied, the number of prints currently set is displayed.

🗗 PRINT ORDER SETTING
PRINT ORDERED

RESET

KEEP

EXIT•🔘 SELECT◆🔲 GO◆OK

🗗 PRINT ORDER

🗗

🗗ᴬᴸᴸ

EXIT•🔘 SELECT◆🔲 GO◆OK

📷100-0018   HQ

'04.07.01 12:30
                    18
SELECT•🔲   GO◆OK

8

Print setting (DPOF)

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Press ◁▷ to set 📇 x (number of prints).

● Up to 10 can be set. 0 cancels print reservation.

Increases the number.

Decreases the number.

When setting is complete, press 🔘 .

● The ⏱ screen appears.

To apply print reservation for other frames, press 🔘🔘 .

5 **Press ◁▷ to select NO, DATE or TIME and press 🔘 .**

NO : Prints the frame without date/time.

DATE : Prints the frame together with the shooting date.

TIME : Prints the frame together with the shooting time.

6 **Check the number of print reservation frames, the total number of prints, and date/time printing data. Press ◁▷ to select SET and press 🔘 .**

● CANCEL clears all print reserve data.

7 **Press 🔘 to finish print reservation.**

9 Direct printing (PictBridge)

Using the direct printing function

By connecting the camera to a PictBridge-compatible printer with the USB
cable, you can print out recorded pictures directly. With the camera
connected to the printer, select the pictures you want to print and the number
of prints on the camera's monitor. It is also possible to print out pictures using
the print reservation data. ☞ "How to print pictures" (P.125)
To find out if your printer is compatible with PictBridge, refer to the printer's
instruction manual.

What is PictBridge? … It is a standard that allows connection of digital
cameras and printers made by different manufacturers and enables direct
printing.

⎍ STANDARD … All printers that support PictBridge have standard print
settings. By selecting ⎍ STANDARD on the settings screens (☞ P. 132 to
139), you can print images according to these settings. For details on your
printer's standard settings, refer to the printer's instruction manual or contact
the printer manufacturer.

> **? TIPS** -
> • For details of printing paper types, ink cassettes, etc., refer to the
>   printer's instruction manual.

> **! Note**
> • You are recommended to use the optional AC adapter when printing
>   pictures. If you use the battery, make sure that it is fully charged. If
>   the camera stops operating while communicating with the printer, the
>   printer may malfunction or image data may be lost.
> • Movies cannot be printed.
> • The camera will not enter sleep mode when connected to the USB
>   cable.

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**Direct printing
(PictBridge)**

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Connecting the camera to a printer

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

1 **Turn the printer on and plug the printer end of the USB cable into the printer's USB port.**
  ● For details on how to turn the printer on and the position of the USB port, refer to the printer's instruction manual.
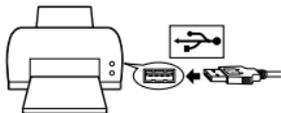
2 **Plug the USB cable into the camera's USB connector.**
  ● The camera turns on automatically.
  ● The camera's monitor turns on and the selection screen for the USB connection is displayed.

USB connector
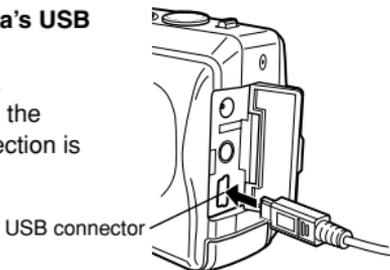
3 **Press ☺☺ to select PRINT, then press ☺.**
  ● ONE MOMENT is displayed and the camera and printer are connected. The PRINT MODE SELECT screen is displayed on the monitor. Make the print settings on the camera's monitor. Go to "Printing pictures" (P. 131).

```
        USB
      ┌─────────┐
      │   P C   │
      ├─────────┤
      │  PRINT  │
      ├─────────┤
      │  EXIT   │
      └─────────┘
  SELECT◆⊟      GO◆OK
```

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Direct printing (PictBridge)
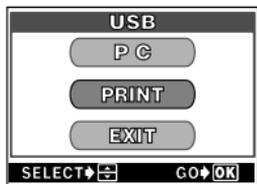
⚠ Note
• If PC is selected in step 3, the PRINT MODE SELECT screen is not displayed. If the screen is not displayed after several minutes, unplug the USB cable from the camera and start again from step 1.

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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 MODE SELECT
PRINT
ALL PRINT
MULTI PRINT
ALL INDEX
EXIT◆█ SELECT◆██ GO◆OK

PRINT　　　　　Prints the selected picture.
　　　　　　　　　☞ "PRINT mode/MULTI PRINT mode" (P. 133)
ALL PRINT　　　Prints all the pictures stored on the card.
　　　　　　　　　☞ "ALL PRINT mode" (P. 137)
MULTI PRINT　　Prints one picture in multiple layout format.
　　　　　　　　　☞ "PRINT mode/MULTI PRINT mode" (P. 133)
ALL INDEX　　　Prints an index of all the pictures stored on the card.
　　　　　　　　　☞ "ALL INDEX mode/PRINT ORDER mode" (P. 139)
PRINT ORDER　　Prints the pictures according to the print reservation data
　　　　　　　　　on the card. If no print reservations (P. 125) have been
　　　　　　　　　made, this option is not available.
　　　　　　　　　☞ "ALL INDEX mode/PRINT ORDER mode" (P. 139)

Print modes and the settings

The available print modes and settings such as paper size vary
depending on the type of printer.
For details, refer to the printer's instructions.

Printing basics

Print an image using the most simple printing method. You can make a print of each image. The date and file name are not printed.

1 **In the PRINT MODE SELECT screen, press ◁▷ to select PRINT, then press ⓘ .**

● The PRINT PAPER screen is displayed.

Zoom lever

2 **Press ◁▷ to select the paper size, then press ▷ .**

● When the PRINT PAPER screen is not displayed, SIZE, BORDERLESS and PICS/SHEET are set to 凸 STANDARD.
Go to step 4.

```
PRINT PAPER
SIZE          BORDERLESS
凸STANDARD ▶ 凸STANDARD
CANCEL▶◁ SELECT▶田 GO▶ OK
```

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.

```
PRINT PAPER
SIZE          BORDERLESS
凸STANDARD ◀ 凸STANDARD
SELECT▶田 GO▶ OK
```

4 **Press ◁▷ to select the picture you want to print. Press ⓘ .**

● The PRINT screen is displayed.

```
FILE:100-0018
SELECT▶田      PRINT▶OK
SINGLE PRINT▶□  MORE▶□
```

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5 Press ⊙⊙ to select OK, then press ⊛ .
- Printing starts.
- If you select CANCEL and press ⊛ , the monitor returns to the PRINT MODE SELECT screen.
- When printing is finished, the monitor returns to the screen in step 4. Repeat steps 4 and 5 to continue printing.

```
        PRINT

         OK

        CANCEL

CANCEL◆⬛ SELECT◆⬛ GO◆OK
```

PRINT mode/MULTI PRINT mode

1 In the PRINT MODE SELECT screen, press ⊙⊙ to select PRINT or MULTI PRINT, then press ⊛ .
- The PRINT PAPER screen is displayed.

Zoom lever
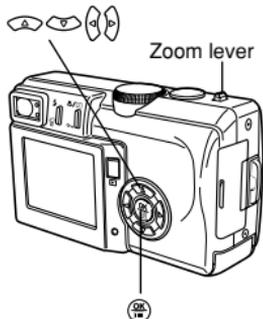
2 Press ⊙⊙ to select the paper size, then press ⬗ .

   PRINT mode Go to Step 3.

   MULTI PRINT mode Go to Step 4.

- When the PRINT PAPER screen is not displayed, SIZE, BORDERLESS and PICS/ SHEET are set to ⎁ STANDARD. Go to step 5.
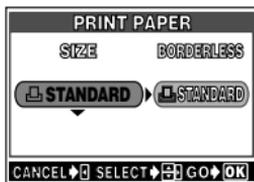
```
       PRINT PAPER
  SIZE        BORDERLESS

 ⎁STANDARD ▶ ⎁STANDARD
     ▼

CANCEL◆⬛ SELECT◆⬛ GO◆OK
```

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Direct printing (PictBridge)

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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.
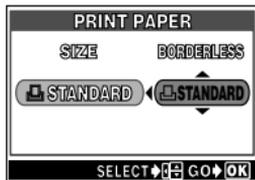
4 **Press** ⊙⊙ **to select PICS/SHEET, then**
press 🏵 **.**
● PICS/SHEET depends on the paper size set
in Step 2 and the capabilities of your printer.
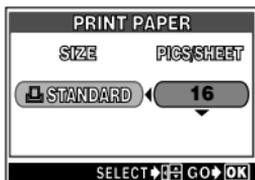
5 **Press** ◁▷ **to select the picture you want to**
print.
● Push the zoom lever toward W to display the
pictures in index format. You can then select
the pictures you want to print from the index.

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.

● Set a SINGLE PRINT reservation

Press ⟨⟩ .

● Press ⟨⟩ when the picture with 凸 is
displayed to cancel the reservation.

Print resevation
mark is displayed.

FILE:100-0018

SELECT♦◻◻   PRINT♦OK
CANCEL♦◻   MORE♦▽

● Set MORE print reservations

① **Press ⟨⟩ .**
   ● The PRINT INFO screen is displayed.

② **Press ⟨⟩⟨⟩ to select the item you
   want to set, then press ⟨⟩ .**

   ● Press ⟨⟩⟨⟩ to select the item, then
     press ⟨⟩ .

PRINT INFO

凸x   ▸1
DATE   WITHOUT
FILE NAME   WITHOUT

SELECT♦◻   SET♦◻   GO♦OK

凸 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.

● DATE and FILE NAME are not available in MULTI PRINT mode.

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**Direct printing
(PictBridge)**

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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 ◁▷ 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. 141)
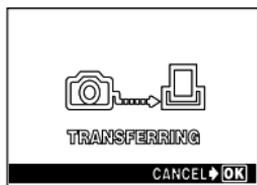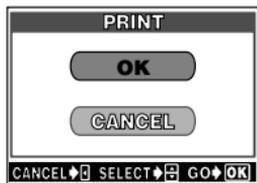
During data transfer

● **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 ⊛ .
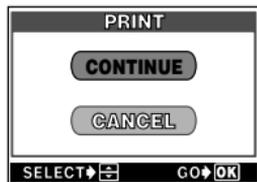
ALL PRINT mode

1 **In the PRINT MODE SELECT screen, press
   ◁▷ to select ALL PRINT, then press ☺ .**
   ● The PRINT PAPER screen is displayed.
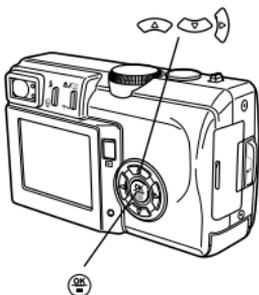
PRINT MODE SELECT
PRINT
ALL PRINT
MULTI PRINT
ALL INDEX
EXIT◆🔲 SELECT◆🔢 GO◆OK

2 **Press ◁▷ to select the paper size, then
   press ◔ .**
   ● When the PRINT PAPER screen is not
   displayed, SIZE and BORDERLESS are set
   to 🖶 STANDARD. Go to Step 4.
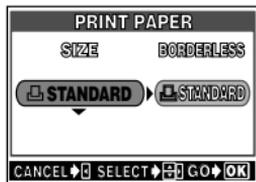
PRINT PAPER
SIZE   BORDERLESS
🖶STANDARD 🖶STANDARD
CANCEL◆🔲 SELECT◆🔢 GO◆OK

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 INFO screen is displayed.

PRINT PAPER
SIZE   BORDERLESS
🖶STANDARD **🖶STANDARD**
SELECT◆🔢 GO◆OK

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Direct printing
(PictBridge)

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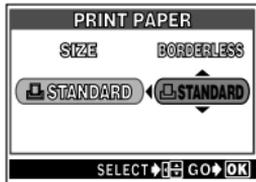
4 Press ⊘⊙ to select the item you want to set, then pressd ⊘ .

- Press ⊘⊙ to select the item, then press ⊛ .

- If PRINT INFO cannot be set with your printer, go to Step 6.

- Only one print of each image can be made at a time.
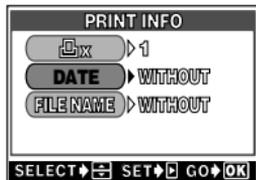
  DATE (⊘) If you select WITH, pictures are printed with the date and time.

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

5 Press ⊛ .

- 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. 141)

During data transfer

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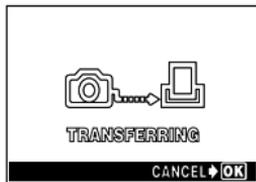
● **To cancel printing**

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 ⊛ .
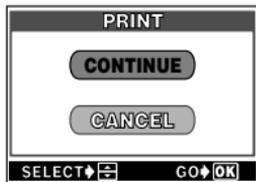
ALL INDEX mode/PRINT ORDER mode

1 **In the PRINT MODE SELECT screen, press
   ⊗⊘ to select ALL INDEX or PRINT
   ORDER, then press ⊛ .**
   ● The PRINT PAPER screen is displayed.

```
PRINT MODE SELECT
     PRINT
    ALL PRINT
   MULTI PRINT
    ALL INDEX
EXIT◆日  SELECT◆日 GO◆OK
```

2 **Press ⊗⊘ to select the paper size, then
   press ⟩ .**
   ● When the PRINT PAPER screen is not
   displayed, SIZE and BORDERLESS are set
   to 凸 STANDARD (printer's factory default
   setting). Go to Step 4.
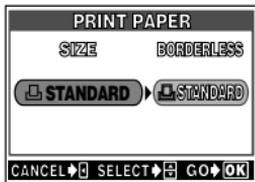
```
PRINT PAPER
SIZE        BORDERLESS
凸STANDARD ▶ 凸STANDARD

CANCEL◆日 SELECT◆日 GO◆OK
```

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.
   ● BORDERLESS is not available in ALL
   INDEX mode. Press ⊛ and go to Step 4.

```
PRINT PAPER
SIZE        BORDERLESS
凸STANDARD ◀ 凸STANDARD
                ▼
        SELECT◆日 GO◆OK
```

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**Direct printing
(PictBridge)**

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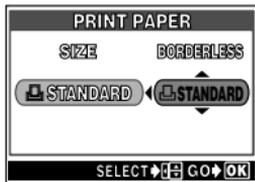
4 Print the pictures.

● 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. 141)
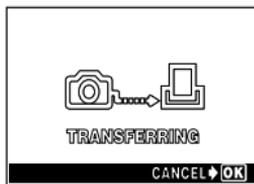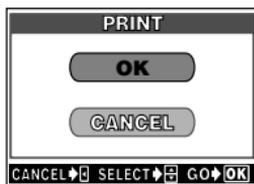
During data transfer

● 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 ⊛ .
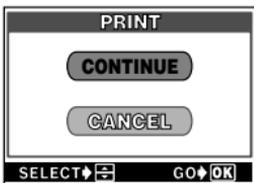
Exiting direct printing

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

1 **In the PRINT MODE SELECT screen, select**
   .

```
PRINT MODE SELECT
    PRINT
  ALL PRINT
 MULTI PRINT
  ALL INDEX
EXIT◆  SELECT◆  GO◆ OK
```

   ● The message is displayed.

```
REMOVE USB CABLE
```
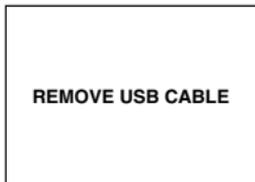
2 **Remove the USB cable from the camera.**
   ● The camera turns off.
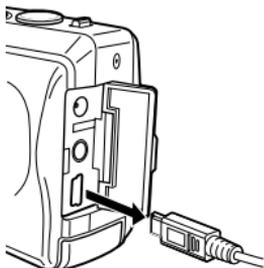
3 **Remove the USB cable from the printer.**
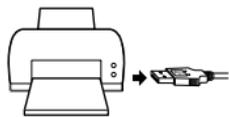
If an error code is displayed

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.
8√ JAMMED	The paper is jammed.	Remove the jammed paper.
SETTINGS CHANGED	The printer's paper cassette has been removed or the printer has been manipulated while making settings on the camera.	Do not manipulate the printer while making settings on the camera.
⊥ PRINT ERROR	There is a problem with the printer and/or camera.	Turn off the camera and printer, then turn them on again.

? TIPS -
   • If an error code other than those shown above is displayed, refer to "Error codes" (P. 143).

10 Miscellaneous

Error codes

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 resizing 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.

Monitor indication	Possible cause	Corrective action
⚠️ 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 battery/card compartment cover is open.	Close the battery/card compartment cover.
CARD SETUP POWER OFF ▯ FORMAT SELECT◆ GO◆OK	The card is not formatted.	Format the card. All data on the card is deleted.
🕐 Y/M/D	The first time the camera is used or when it is left with the battery removed for a long time, the default date and time setting are restored.	Set the date and time.

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.	Open the lens barrier to turn on the camera.	P. 21
The battery is exhausted.	Charge the battery.	P. 16
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. 22
The camera is connected to a PC.	The camera will not operate while it is connected to a PC or printer.	—

● **Shooting**

Possible cause	Corrective action	Ref. Page
No picture is taken when the shutter button is pressed.		
The lens barrier is closed.	Open the lens barrier.	P. 21
The battery is exhausted.	Charge the battery.	P. 16
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. 56
The card is full.	Erase unwanted pictures or insert a new card. Before erasing, download important images to a PC.	P. 101
The battery ran out of power during shooting or while the images were being written to the card. (The monitor turned off.)	Charge the battery. (Wait until the card access lamp turns off when flashing.)	P. 16
The memory gauge on the monitor is full.	Wait until there is room in the memory gauge.	P. 13

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Miscellaneous

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Possible cause	Corrective action	Ref. Page
No picture is taken when the shutter button is pressed.		
There is a problem with the card.	Refer to "Error codes".	P. 143
The viewfinder display is not clear.		
There is condensation* in the viewfinder.	Wait until the camera dries before turning it on again.	—
The monitor is hard to see.		
The brightness is not adjusted properly.	Select ▣ in the MODE MENU and adjust the brightness.	P. 117
The monitor is exposed to direct sunlight.	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.	—
The date recorded with the image data is wrong.		
The date/time is not set.	Set the date/time. The clock adjustment is not factory-preset.	P. 24
The camera has been left with the battery removed.	If the camera is left for about 1 day with the battery removed, the date/time setting is canceled. Set the date/time again.	P. 24
The settings are returned to the factory default settings when the camera is turned off.		
ALL RESET is set to ON.	Set ALL RESET to OFF in the MODE MENU.	P. 103

* 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.

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Miscellaneous

Possible cause	Corrective action	Ref. Page
The picture is out of focus.		
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. 63, 64
Auto focus is not possible.	Use focus lock to focus on the subject and then shoot.	P. 46
There is condensation* on the lens.	Wait until the camera dries before turning it on again.	—
The monitor goes off.		
The camera is in the sleep mode.	Operate the camera (press the shutter button or the zoom lever).	P. 22
The power is turned off with the monitor off.	If ALL RESET is set to OFF in the MODE MENU, the camera settings before the power was turned off remain unchanged. Turn on the monitor, and turn off the power.	P. 41, 103
The flash does not fire.		
The flash is set to the flash off mode ⑤ .	Select a flash mode other than flash off ⑤ .	P. 55
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to fill-in mode ⚡ .	P. 55
DRIVE is set to BKT.	If the flash is set to the red-eye reduction ⦿ or Slow synchronization with red-eye reduction ⦿⚡ **SLOW**, the flash does not fire in the BKT mode. Set DRIVE to any mode other than BKT.	P. 68
The camera is in the 🎥 (movie) mode.	The flash does not fire in the 🎥 mode. Set a different shooting mode.	P. 35

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Possible cause	Corrective action	Ref. Page
The flash does not fire.		
Super macro mode is set.	The flash does not fire in the super macro mode. Set 🌷 to OFF.	P. 64
Panorama mode is set.	The flash does not fire in the panorama mode. Cancel the panorama mode.	P. 71
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. 13,16
The green and orange lamps on the right of the viewfinder blink simultaneously.		
The battery is exhausted.	Charge the battery.	P. 16

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Miscellaneous

● **Recorded pictures do not turn out well.**

Possible cause	Corrective action	Ref. Page
The picture is out of focus.		
A subject unsuited to AF was taken.	Use focus lock to focus on the subject and then shoot.	P. 46
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently.	P. 39
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. 55
The lens is dirty.	Clean the lens. Use a commercially available blower blush and then wipe with a lens cleaner to remove dust. Mold may form on the lens surface if the lens is left dirty.	P. 161
The shutter button was pressed while standing in front of the camera in the self-timer mode.	Press the shutter button while looking into the viewfinder, not while standing in front of the camera.	P. 65
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. 55
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. 84
The ISO is at a high setting.	Set the ISO to AUTO or to a low sensitivity: 64.	P. 83

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Miscellaneous

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Possible cause	Corrective action	Ref. Page
The picture is too bright		
The aperture value is small in the **A** (**M**) mode.	Increase the aperture value. Or set the camera to the **P** mode.	P. 58
The shutter speed setting is too slow in the **S** (**M**) mode.	Increase the shutter speed or set the camera to the **P** mode.	P. 59
The picture is too dark.		
The flash was blocked by your finger.	Hold the camera correctly, keeping your fingers away from the flash.	P. 39
The subject was out of the working range of the flash.	Shoot within the flash working range.	P. 55
The flash was set to the flash off mode ⑤.	Select a flash mode other than flash off ⑤.	P. 55
The subject was too small and was backlit.	Set the flash to fill-in mode 🗲, or use the spot metering mode ⊡.	P. 55, 62
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. Set DRIVE to ☐ in the MODE MENU.	P. 68
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. 84
The aperture value setting is too high in the **A** (**M**) mode.	Decrease the aperture value or set the camera to the **P** mode.	P. 58
The shutter speed setting is too fast in the **S** (**M**) mode.	Decrease the shutter speed or set the camera to the **P** mode.	P. 59

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Possible cause	Corrective action	Ref. Page
The colors of pictures look unnatural.		
Indoor lighting can affect the picture's colors.	Set the white balance according to the lighting.	P. 85
No white in the picture.	Include something white in the picture, or shoot using the fill-in flash mode ⚡.	P. 55
The white balance setting is wrong.	Adjust the white balance according to the light source.	P. 85
Part of the picture is too dark.		
The lens was partly blocked by your finger or the strap.	Hold the camera correctly, keeping your fingers and the strap away from the lens.	P. 39
Halation produces unnatural colors in the picture.		
This may be caused by excessively bright ultraviolet light on the subject, such as sunlight shining through the leaves of trees, window frames in bright light at night, reflection of metal in direct sunlight, etc.	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.	—

Possible cause	Corrective action	Ref. Page
Pictures you have taken do not appear on the monitor.		
The power is off.	Press the ▶ (playback) button.	P. 21, 89
The camera is in the shooting mode.	Close the lens barrier and press the ▶ (playback) button.	P. 89
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. 143
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P. 97
Single-frame erase and all-frame erase cannot be performed.		
The pictures are protected.	Display pictures with 🔒 and press the 🔒 (protect) button to cancel protection.	P. 100
No picture is displayed on the TV when connected to the camera.		
The video output signal is incorrect.	Set the video output signal according to the region where used.	P. 122
The TV video signal setting is incorrect.	Set the TV to the video input mode.	P. 97
The monitor is hard to see.		
The brightness is not adjusted properly.	Select 🖳 in the MODE MENU and adjust the brightness.	P. 117
The monitor is exposed to direct sunlight.	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 has not been 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 camera is not recognized by the printer.		
PC was selected on the monitor after connecting to the printer with a USB cable.	Disconnect the USB cable from the camera and start again from the beginning.	P. 130
The printer does not support PictBridge.	Refer to the printer's instruction manual or contact the manufacturer.	—

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Menu directory

● P/A/S/M/📷 /🐟 /🎬 /🏔 /🌄 /🎞 /🔍 mode

Top menu	Tab	Function	Setting			Ref. page
MODE MENU	CAMERA	SCENE[*1]	🏔			P. 36
			🌄			
			🎬			
			🔍			
		⏱/🔦	OFF			P. 65, 66
			⏱			
			🔦			
		DRIVE[*2]	□			P. 68
			▢			
			AF▢			
			BKT	±0.3	x3	
				±0.7	x5	
				±1.0		
		ISO	AUTO [*3]			P. 83
			64 [*4]			
			100			
			200			
			400			
		⚡	–2 - 0.0 - +2			P. 57
		NOISE REDUCTION[*5]	OFF			P. 88
			ON			
		DIGITAL ZOOM[*6]	OFF			P. 52
			ON			
		FULLTIME AF	OFF			P. 61
			ON			
		ACCESSORY	OFF			P. 78
			📷			
		🎤	OFF			P. 75
			ON			
		🌸[*6]	OFF			P. 64
			ON			
		PANORAMA[*7]				P. 71
		2 IN 1				P. 73
		FUNCTION	OFF			P. 74
			BLACK&WHITE			
			SEPIA			
		INFO	OFF			P. 111
			ON			

▢ : Factory default setting

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Top menu	Tab	Function	Setting			Ref. page
MODE MENU	CAMERA	🏞	OFF			P. 113
			ON			
	PICTURE	◀⁚	TIFF	2816x2112		P. 79
				2560x1920		
				2272x1704		
				2048x1536		
				1600x1200		
				1280x960		
				1024x768		
				640x480		
			SHQ			
			HQ			
			SQ1	2560x1920		
				2272x1704		
				2048x1536	HIGH	
				1600x1200	NORMAL	
			SQ2	1280x960		
				1024x768		
				640x480		
		WB	AUTO			P. 85
			☀			
			☁			
			🔅			
			🗏			
		SHARPNESS	–2 - ±0 - +2			P. 86
		CONTRAST	–2 - ±0 - +2			P. 87
	CARD	CARD SETUP	YES			P. 115
			NO			
	SETUP	ALL RESET	ON			P. 103
			OFF			
		●▤	ENGLISH			P. 26
			FRANCAIS			
			DEUTSCH			
			ESPAÑOL			
			ITALIANO			
			РУССКИЙ			
			PORTUGUES			
		PW ON/OFF SETUP	SCREEN	OFF		P. 120
				ON		
			VOLUME	OFF		
				LOW		
				HIGH		

□ : Factory default setting

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Top menu	Tab	Function	Setting		Ref. page
MODE MENU	SETUP	REC VIEW	OFF		P. 121
			ON		
		■)))	OFF		P. 117
			LOW		
			HIGH		
		SHUTTER SOUND	OFF		P. 118
			1	LOW	
			2	HIGH	
		SLEEP	30SEC		P. 122
			1MIN		
			3MIN		
			5MIN		
			10MIN		
		MY MODE SETUP	CURRENT*5	SET	P. 108
				CANCEL	
			RESET	ALL RESET	
				CANCEL	
			CUSTOM – To the CUSTOM screen.		P. 110
		FILE NAME	RESET		P. 123
			AUTO		
		PIXEL MAPPING			P. 124
		🖳			P. 117
		⊕			P. 24
		VIDEO OUT	NTSC		P. 122
			PAL		
		SHORT CUT	A		P. 105
			B		
⏱/ℹ	These can be replaced with other functions				P. 65, 66
⚙	using the SHORT CUT setting.				P. 79
MONITOR OFF (MONITOR ON)					P. 45

▢ : Factory default setting

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*1 Not available in the modes other than the 🏔/🌄/🎬/🔍 mode.

*2 Not available in the 🔅 mode.

*3 The factory default setting is set to AUTO in the **P**/🌄/🔅/🏔/🌄/🎬/🔍 mode.

*4 The factory default setting is set to 64 in the **A**/**S**/**M** mode.

*5 Not available in the modes other than the **P**/**A**/**S**/**M** mode. May not be available depending on the shooting mode (**P**, **A**, **S** or **M**) registered in the 🖤 mode.

*6 Not available in the 🎬 mode. May not be available depending on the shooting mode (**P**, **A**, **S** or **M**) registered in the 🖤 mode.

*7 Not available in the **A**/**S**/**M**/🎬 mode. May not be available depending on the shooting mode (**P**, **A**, **S** or **M**) registered in the 🖤 mode.

● **AUTO** mode

Top menu	Setting	Ref. page
⟳/⌨	OFF	P. 65, 66
	⟳	
	⌨	
⬛	SHQ	P. 79
	HQ	
	SQ1	
	SQ2	
⊙		P. 24
CARD SETUP	YES	P. 115
	NO	

● 🎥 mode

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	CAMERA	⟳/⌨	OFF	P. 65, 66
			⟳	
			⌨	
		ISO	AUTO	P. 83
			64	
			100	
			200	
			400	
		DIGITAL ZOOM	OFF	P. 52
			ON	
		ACCESSORY	OFF	P. 78
			🎴	
		🌷	OFF	P. 64
			ON	
		FUNCTION	OFF	P. 74
			BLACK&WHITE	
			SEPIA	

To the next page

⬛ : Factory default setting

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Top menu	Tab	Function	Setting	Ref. page
MODE MENU	PICTURE	⬛	HQ	P. 79
			SQ	
		SHARPNESS	–2 - ±0 - +2	P. 86
		CONTRAST	–2 - ±0 - +2	P. 87
	CARD	CARD SETUP	YES	P. 115
			NO	
	SETUP	ALL RESET	ON	P. 103
			OFF	
		🌐 ⬛	ENGLISH	P. 26
			FRANCAIS	
			DEUTSCH	
			ESPAÑOL	
			ITALIANO	
			РУССКИЙ	
			PORTUGUES	
		PW ON/OFF SETUP	SCREEN — OFF / ON	P. 120
			VOLUME — OFF / LOW / HIGH	
		▪))	OFF	P. 117
			LOW	
			HIGH	
		FILE NAME	RESET	P. 123
			AUTO	
		PIXEL MAPPING		P. 124
		🖥		P. 117
		⏱		P. 24
		VIDEO OUT	NTSC	P. 122
			PAL	
🎤			OFF	P. 77
			ON	
WB			AUTO	P. 85
			☀	
			☁	
			☼	
			🗲	
MONITOR OFF (MONITOR ON)				P. 45

▨ : Factory default setting

● ▶ **mode (still pictures)**

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	PLAY	⌒	+90˚ / 0˚ / -90˚	P. 93
		🗗		P. 125
		🎤		P. 98
	EDIT	▣	640x480 / 320x240 / CANCEL	P. 99
	CARD	CARD SETUP	🗑 ALL ERASE / ⊞ FORMAT	P. 102 / P. 115
	SETUP	ALL RESET	ON / OFF	P. 103
		◉≣	ENGLISH / FRANCAIS / DEUTSCH / ESPAÑOL / ITALIANO / РУССКИЙ / PORTUGUES	P. 26
		PW ON/OFF SETUP	SCREEN — OFF / ON	P. 120
			VOLUME — OFF / LOW / HIGH	
		■))	OFF / LOW / HIGH	P. 117
		VOLUME	OFF / LOW / HIGH	P. 119
		🖵		P. 117
		⊘		P. 24
		VIDEO OUT	NTSC / PAL	P. 122
		▦	4 / 9 / 16	P. 91
▣				P. 92
INFO				P. 112
▲				P. 113

▨ : Factory default setting

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● ▶ **mode (movies)**

Top menu	Tab	Function	Setting	Ref. page
MODE MENU	CARD	CARD SETUP	🗑 ALL ERASE	P. 102
			🅕 FORMAT	P. 115
	SETUP	ALL RESET	ON	P. 103
			OFF	
		🌐⊟	ENGLISH	P. 26
			FRANCAIS	
			DEUTSCH	
			ESPAÑOL	
			ITALIANO	
			РУССКИЙ	
			PORTUGUES	
		PW ON/OFF SETUP	SCREEN — OFF	P. 120
			ON	
			VOLUME — OFF	
			LOW	
			HIGH	
		■)))	OFF	P. 117
			LOW	
			HIGH	
		VOLUME	OFF	P. 119
			LOW	
			HIGH	
		🖳		P. 117
		⊕		P. 24
		VIDEO OUT	NTSC	P. 122
			PAL	
		🔳	4	P. 91
			9	
			16	
MOVIE PLAY			MOVIE PLAYBACK	P. 94
			INDEX	
INFO				P. 112

◻ : Factory default setting

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Miscellaneous

Camera maintenance

● Cleaning the camera

1 Close the lens barrier and turn off the camera.

2 Remove the battery. ☞ **P. 18**
- 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 the card, and keep in a cool, dry place that is well ventilated.
- Replace the battery periodically 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.**
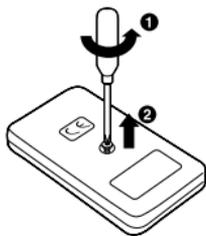
2 **Turn the remote control device over, and remove the cover. Remove the old battery and insert a new battery (CR2025) with the battery facing up as shown.**
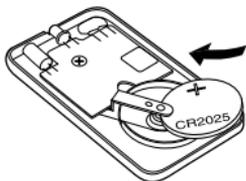
3 **Replace the cover, turn the remote control device over, and turn the screw on the bottom clockwise to tighten.**

> 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 device is –10°C to 40°C (14°F to 104°F).

Specifications

Product type	Digital camera (for shooting and displaying)
Recording system	
Still	Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), TIFF (non-compression)
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 MB to 512 MB
Recording image resolutions	2816 x 2112 pixels (TIFF/SHQ/HQ) 2560 x 1920 pixels (TIFF/SQ1) 2272 x 1704 pixels (TIFF/SQ1) 2048 x 1536 pixels (TIFF/SQ1) 1600 x 1200 pixels (TIFF/SQ1) 1280 x 960 pixels (TIFF/SQ2) 1024 x 768 pixels (TIFF/SQ2) 640 x 480 pixels (TIFF/SQ2)
No. of storable pictures (When a 32 MB card is used/Without sound)	Approx. 1 frame (TIFF: 2816x2112) Approx. 7 frames (SHQ: 2816x2112) Approx. 21 frames (HQ: 2816x2112) Approx. 66 frames (SQ1: 1600x1200 NORMAL) Approx. 398 frames (SQ2: 640x480 NORMAL)
No. of effective pixels	6,070,000 pixels
Image pickup device	1/1.76" CCD solid-state image pickup 6,370,000 (gross)
Lens	Olympus lens 7.8 mm to 23.4 mm, f2.8 to f4.8, 7 elements in 6 groups (equivalent to 38 mm to 114 mm lens on 35 mm camera)
Photometric system	Center-weighted metering system, Spot metering system
Aperture	W : f2.8 to f8.0 T : f4.8 to f8.0
Shutter speed	Used with mechanical shutter
Still	1 to 1/1000 sec. (M mode: 8 to 1/1000 sec.; during night scene shooting or when slow synchronization is used: 4 to 1/1000 sec.)
Movie	1/30 to 1/8000 sec.

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Shooting range	Normal: 50 cm to ∞ (1.6 ft to ∞) Macro mode: 20 cm (W) to 50 cm (0.7 ft to 1.6 ft) Super macro mode: 4 cm (W) to 20 cm (0.1 ft to 0.7 ft)
Viewfinder	Optical real image viewfinder
Monitor	1.8" TFT color LCD display Approx. 134,000 pixels
Autofocus	Dual autofocus (Contrast detection system, Passive autofocus 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 to104°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 LI-10B/12B lithium-ion battery AC adapter specified by Olympus (optional)
Dimensions (W) X (H) X (D)	99.5 mm x 58.5 mm x 41.5 mm (3.9" x 2.3" x 1.6") (excluding protrusions)
Weight	194 g (0.4 lb) (without battery/card)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE OR OBLIGATION ON THE PART OF THE MANUFACTURER.

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Miscellaneous

Glossary

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. With 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 images recorded using silver halide (the method for recording images in conventional, non-digital photography). This system is different from that used in 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).

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 passive autofocus system, nullifying the shortcomings of each system.

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).

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 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.

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P (Program) Mode
Also called Program AE mode. The camera automatically sets the best shutter speed and aperture for the shot.

PictBridge
A standard that allows connection of digital cameras and printers made by different manufacturers and enables direct printing.

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.

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.).

TIFF (Tagged Image File Format)
A format used for saving highly detailed black and white or color image data. TIFF image files can be handled by software programs for scanners and graphics applications. This camera uses TIFF as an uncompressed image file format.

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.

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Miscellaneous

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Miscellaneous

OLYMPUS®

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  Kingdom
  * Please note some (mobile) phone services/provider do not permit access
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to Friday)

VT713901

OLYMPUS®

CAMEDIA

DIGITAL CAMERA ▪〜▪ **PERSONAL COMPUTER**

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.

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**Macintosh**

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.

```
                    Identifying the OS (p.6)
```

| Windows 98/ 98 SE (Second Edition) | Windows Me/2000/XP | MacOS 9.0 - 9.2/OS X * For OS 8.6, see below. |

```
        Installing the USB
        driver for Windows
        98 (p.9)
```

```
    Connecting the camera to the computer using the provided USB cable
                    (Windows p.11, Mac p.24)
```

```
            Confirming the computer recognizes
                    the camera (p.14)
```

```
                Downloading image files
                (Windows p.17, Mac p.26)
```

```
            Disconnecting the USB cable
                (Windows p.20, Mac p.30)
```
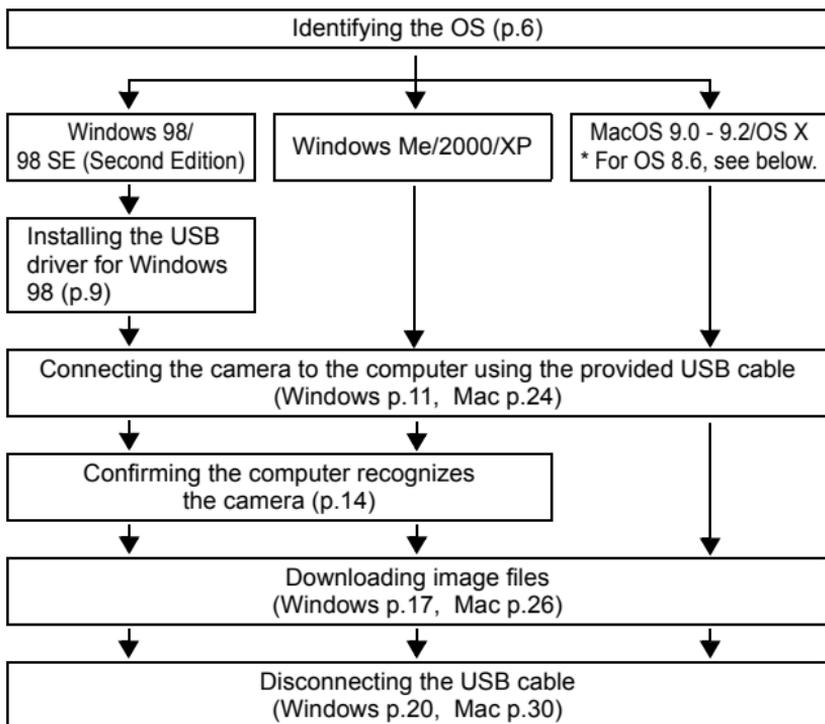
* Even if your computer has a USB connector, data transfer may not function correctly if you are using one of the operating systems listed below or if you have an add-on USB connector (extension card, etc.).
- Windows 95/NT 4.0
- Windows 98/98 SE upgrade from Windows 95
- Mac OS 8.6 or lower (except 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.

4

⚠
Caution

• 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.

Note

• 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.

5

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.
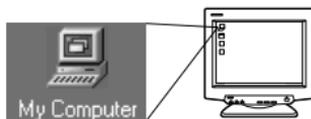
2 **Double-click the "Control Panel" icon.**

3 **Double-click the "System" icon.**

Note

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.
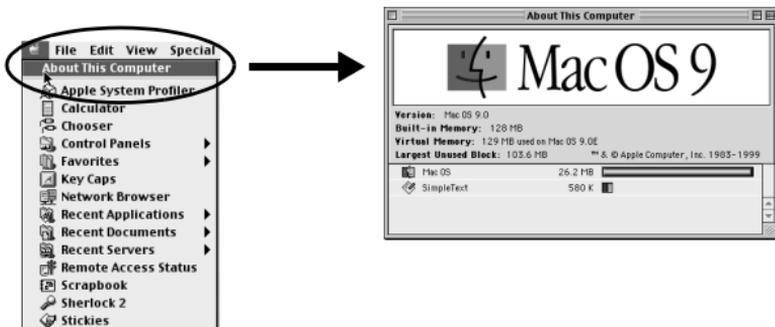
Users running Mac OS 9/X ☞ p.23
Users running other OS ☞ p.31

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.

Windows

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".

Note
The drive letter of the CD-ROM varies depending on the computer.
To identify the drive letter, double-click "My Computer" on the desktop.

Windows

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----

3 Click "Continue". The installation of the USB driver will start.

Install USB Driver for Windows98

Press [Continue] to install the USB driver for Olympus digital cameras.

Continue   Cancel

4 Click "OK" to restart your computer and the installation is complete.

Install USB Driver for Windows98

Your computer must be restarted to complete installation.

OK   Cancel

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.

Windows

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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.**

USB

[SETUP] tab

Menu button

Arrow pad
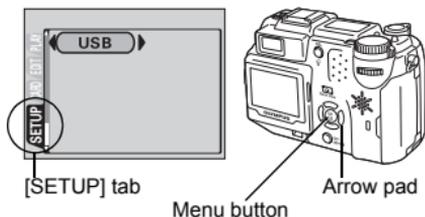
2 **Insert the marked end of the provided USB cable into the USB port on your computer as shown below.**


Look for this mark.

Terminal

USB port

Note
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.

Computer

Rectangular terminal   Smaller terminal

USB port   USB cable

USB connector or multi connector

Windows

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----

4 **Turn the camera on in ▶ (playback) mode.**

- Most cameras with a lens barrier turn on automatically in Step 3, with the exception of some models which require you to press the ☺ (monitor) button or ▶ button.

Lens barrier

☺ button or
▶ button

OFF ▶ ▢
Power switch

Mode dial

Power switch

5 **When the screen shown right appears on the monitor in Step 4, use the arrow pad to select "PC" and press the OK button.**

```
USB
  P C
  PRINT
  EXIT
SELECT◆🖵      GO◆ OK
```

Arrow pad

OK button

6 **The computer recognizes the camera as a new device.**

- Depending on the camera model, when you connect the camera to the computer, the lamp on the right of the viewfinder or the self-timer lamp may light.

Lamp

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

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● **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.

Windows

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.
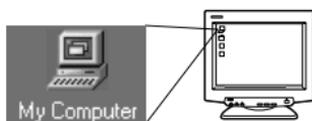
2 **Make sure the "Removable Disk" icon appears in the window.**

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.

Removable Disk (F:)

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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.**

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----

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 Windows Me/2000/XP start from "Connecting the camera to the computer".
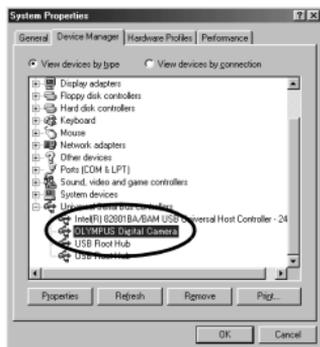
Note

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

Windows

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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.
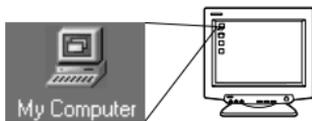
2 **Double-click the "Removable Disk" icon.**
A new "Removable Disk" icon appears when the camera is connected to the computer, as the digital camera is recognized as a "Removable Disk".

Note

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.**

Windows

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----
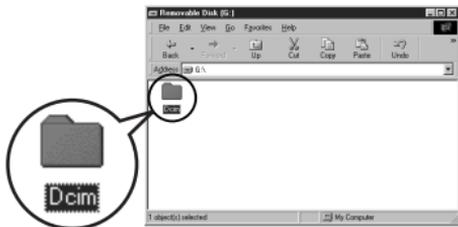
4 **Double-click the "100olymp" folder.**

Image files (JPEG files) with files names such as "P1010001.jpg" are displayed.
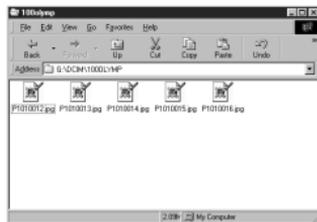
Note
• The camera automatically assigns folder names and file names according to the following rules.

Folder name	File name
(Example)	(Example)
100olymp	**P1010001.jpg**
↓	↓↓↓
Serial number	Month / Day / Serial number
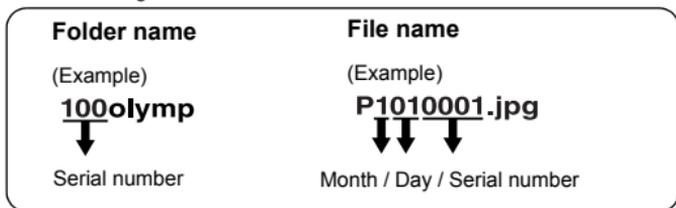
• Serial numbers of image files run from 0001 to 9999.
• Serial numbers of folders run from 100 to 999.
• When file number 9999 is reached, a new folder is created and assigned the next number.
• Months January through September are expressed by the numbers 1 through 9, October by the letter A, November 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.

Windows

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    Downloading images to your computer

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).

P1010012.jpg

• To select all files, choose Edit > Select all.
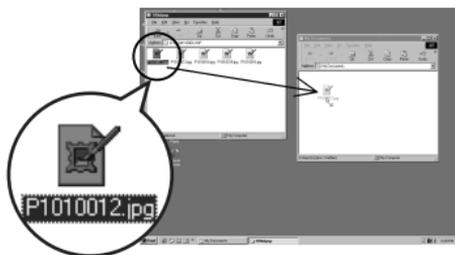
Note

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 CAMEDIA 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.

Windows

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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 self-timer lamp (which on some models light while the camera is connected to the computer) or the card access lamp is not blinking.**
The lamps and their location vary depending on the model. Refer to your camera's reference manual.

Lamp

Card access lamp
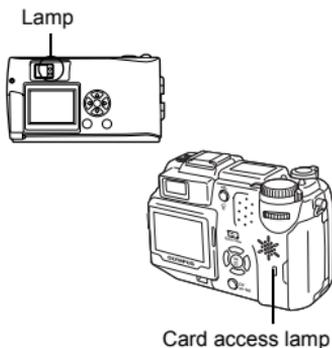
2 **Double-click the "My Computer" icon and right-click the "Removable Disk" to display the menu.**

Removable Disk (F:)

3 **Click "Eject" on the menu.**

Remo
Disk

Open
Explore
Find...

Copy Disk...
Sharing...

Format...
Eject
Create Shortcut

Properties

Windows

---

4 **Make sure that the lamp on the right of the viewfinder or the self-timer lamp (which on some models light while the camera is connected to the computer) or the card access lamp is not blinking.**

Lamp

Depending on the camera model, the green lamp may light or lamps that were lit while the camera was connected to the computer may go off. If the lamp is not flashing, then the cable can be removed.
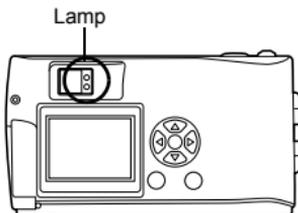
5 **Remove the USB cable from the camera.**
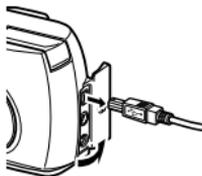
6 **Remove the USB cable from your computer.**
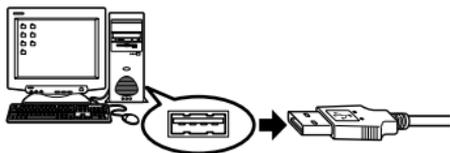
● **Windows Me/2000/XP**

1 **Make sure that the lamp on the right of the viewfinder or the self-timer lamp (which on some models light while the camera is connected to the computer) or the card access lamp is not blinking.**
The lamps and their location vary depending on the model. Refer to your camera's reference manual.

Lamp

Windows

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----
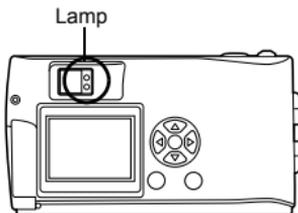
2 **Click the** **"Unplug or Eject Hardware" icon on the task bar.**

The message saying that the drive has been stopped appears.

3 **Click on the message.**

The "Unplug or Eject Hardware" window appears.

Stop USB Mass Storage Device - Drive(G:)
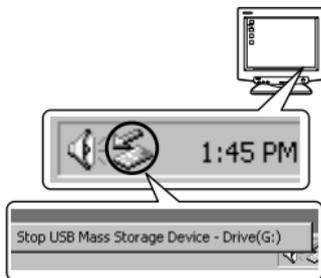
4 **When a message appears, click "OK".**

Safe To Remove Hardware

The 'USB Mass Storage Device' device can now be safely removed from the system.

OK

5 **Remove the USB cable from the camera.**
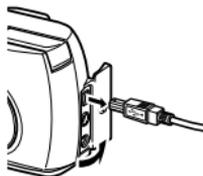
6 **Remove the USB cable from your computer.**
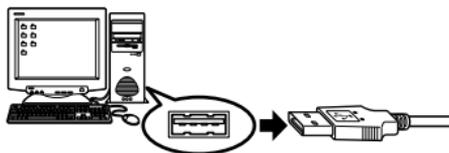
Windows

Caution

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.

Problem Ejecting USB Mass Storage Device

The device 'Generic volume' cannot be stopped right now. Try stopping the device again later.

OK

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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.

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.**

USB

[SETUP] tab

Menu button

Arrow pad
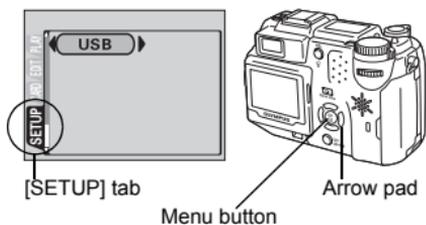
2 **Insert the marked end of the USB cable into the USB port on your computer as shown below.**

Look for this mark.

Terminal

USB port

Note
> 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.

Computer

Rectangular terminal

Smaller terminal

USB port

USB cable

USB connector or multi connector

Macintosh

----

4 **Turn the camera on in ▶ (playback) mode.**

- Most cameras with a lens barrier turn on automatically in Step 3, with the exception of some models which require you to press the ⊕ (monitor) button or ▶ button.

Lens barrier

⊕ button or
▶ button

OFF ▶ ▷

Power switch

▶ Mode dial

Power switch

5 **When the screen shown right appears on the monitor in Step 4, use the arrow pad to select "PC" and press the OK button.**

USB

P C

PRINT

EXIT

SELECT◆⊟   GO◆OK

Arrow pad

OK button

6 **The computer recognizes the camera as a new device.**

- Depending on the camera model, when you connect the camera to the computer, the lamp on the right of the viewfinder or the self-timer lamp may light.

untitled

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

⚠ Caution

When the camera is connected to the computer, none of the camera buttons are functional.

Macintosh

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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.**

Note
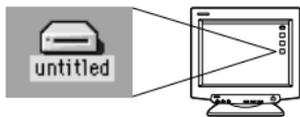
If you cannot find this icon, or if an error message appears when you double-click the icon, there may be a problem with one of the following:

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.**
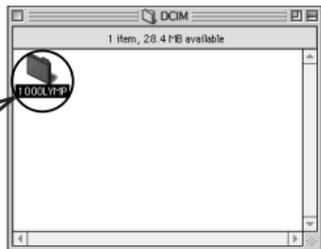
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Image files (JPEG files) with files names such as "P1010001.JPG" are displayed.


```
┌─────────── 100OLYMP ───────────┐
│        6 items, 28.4 MB available        │
│  🖼️            🖼️                │
│  JPEG          JPEG              │
│ P1010012.JPG  P1010013.JPG      │
│                                 │
│  🖼️            🖼️                │
│  JPEG          JPEG              │
│ P1010014.JPG  P1010015.JPG      │
│                                 │
│  🖼️            🖼️                │
│  JPEG          JPEG              │
│ P1010016.JPG  P1010017.JPG      │
└─────────────────────────────────┘
```

Note • The camera automatically assigns folder names and file names according to the following rules.

┌───┐
│ **Folder name**   **File name**   │
│ (Example)   (Example)   │
│   │
│ <u>100</u>OLYMP   P<u>1</u><u>01</u><u>0001</u>.jpg │
│   ↓   ↓ ↓ ↓   │
│ Serial number   Month / Day / Serial number│
└───┘
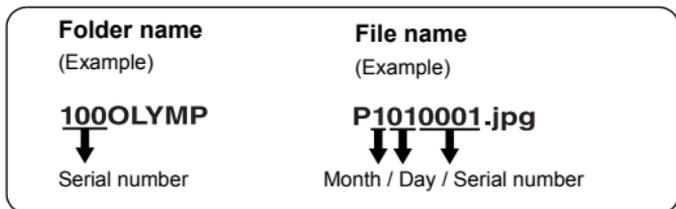
• Serial numbers of image files run from 0001 to 9999.
• Serial numbers of folders run from 100 to 999.
• When file number 9999 is reached, a new folder is created and assigned the next number.
• Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

*4* **Double-click the "Macintosh HD" icon on the desktop.**

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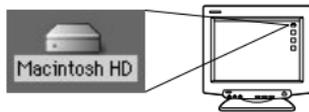
The "Hard Disk" window is displayed.

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.
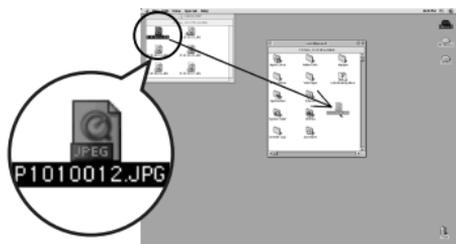
Note
> When the image file has been copied to the computer, you can view images by double-clicking the image files in the "Hard Disk" folder. The files will be opened in the default image viewer of the operating system. If you want to view the image a different size or process it, you will need to open the image with software that supports JPEG or TIFF images files, such as Paint Shop Pro, Photoshop or CAMEDIA Master software.

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.

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● **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.

| Note | 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. |

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Disconnecting the camera from your computer

1 **Make sure that the lamp on the right of the viewfinder or the self-timer lamp (which on some models light while the camera is connected to the computer) or the card access lamp is not blinking.**
The lamps and their location vary depending on the model. Refer to your camera's reference manual.

Lamp
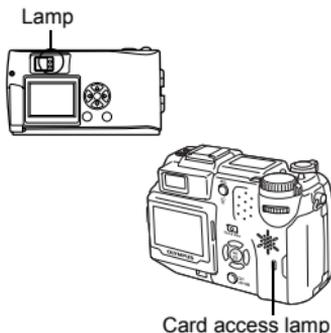
Card access lamp

2 **Drag the "untitled" icon on the desktop to "Trash".**

untitled → Trash

3 **Make sure that the lamp on the right of the viewfinder or the self-timer lamp (which on some models light while the camera is connected to the computer) or the card access lamp is not blinking.**

Lamp

Depending on the camera model, the green lamp may light or lamps that were lit while the camera was connected to the computer may go off. If the lamp is not flashing, then the cable can be removed.
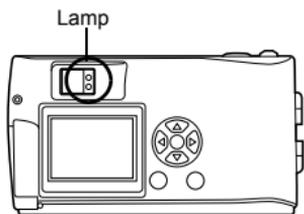
4 **Remove the USB cable from the camera.**

5 **Remove the USB cable from your computer.**

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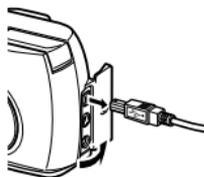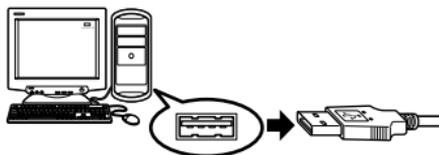
Downloading image files using other OS
(For other OS users)

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?

No

Yes

Yes

Connect the camera directly to your computer using the provided USB cable.

Is your OS one of the following?
- Windows 98
- Windows 2000
- Windows Me
- Windows XP
- Mac OS 9/X

No

Use the optional USB reader/writer.*
*Certain card readers may not be compatible with Mac OS X. Check the Olympus website for the most up-to-date compatibility information.
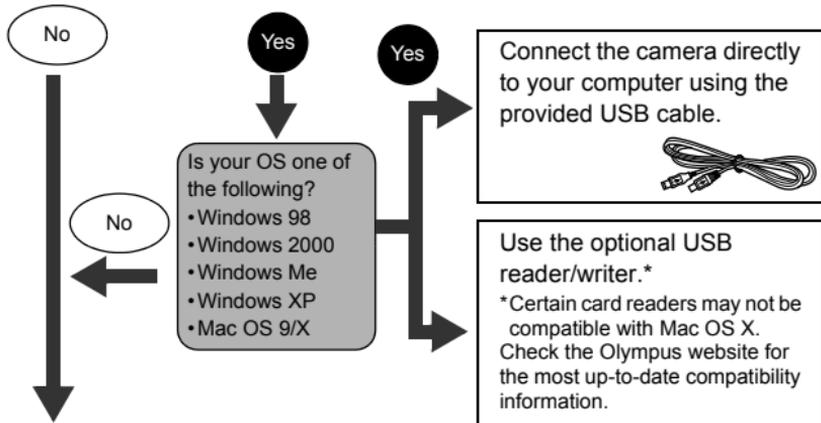
Does your computer have a built-in PC card slot?

No

Yes

Use the optional PC card adapter*.

*Not supported by Windows NT4.0 or lower
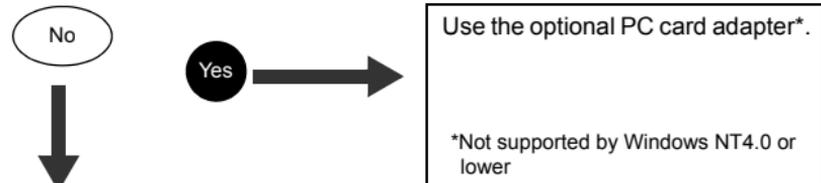
Consult your nearest Olympus representative.

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(Monday to Friday) ET
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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
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