

CAMEDIA DIGITAL CAMERA C-8080 Wide 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.





C-8080 Wide 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.
- Screen and camera illustrations shown in this manual were produced during the developmental stages and may differ from those of the actual product.

For customers in North and South America

For customers in USA

Declaration of Conformity Model Number : C-8080 Wide Zoom RM-2 (Remote control) Trade Name : OLYMPUS Responsible Party : Olympus America Inc. Address :2 Corporate Center Drive, Melville, New York 11747-3157 U.S.A. Telephone Number : 1-631-844-5000

Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

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

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

For customers in Canada

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

For customers in Europe



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

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- The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).

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Names of parts

Camera





Viewfinder and monitor indications



	Item	Indication	Ref. page
1	Shooting mode	P, A, S, M, 🖙 1, 😰, 🕑, 🏊, 🗞, 💽	P.46
2	Shutter speed	15" to 1/4000, BULB	P.71
3	Aperture value	F2.4 to F8.0	P.70
4	Exposure compensation Exposure differential	-2.0 to +2.0 -3.0 to +3.0	P.108 P.72
5	Battery check	(EA), (CA)	P.14
6	Green lamp	0	P.50
7	Flash stand-by Camera movement warning/ Flash charge	 ↓ Lights ↓ Blinks 	P.50, 59
8	Macro mode Super macro mode Manual focus	ST MF, ^{MF} sz	P.87 P.88 P.79
9	Noise reduction	NB	P.118

Names of parts

	Item	Indication	Ref. page
10	Flash mode	 ♥, \$, \$, \$SLOW1, ♥\$SLOW1, \$SLOW2 	P.59
11	Flash intensity control	€72 -2.0 to +2.0	P.64
12	Sequential shooting mode	, HI 및, 및, AF 및, BKT	P.92
13	Self-timer Remote control	⊗ ∔	P.89 P.90
14	Sound record	Ŷ	P.100, 101, 137
15	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.102
16	Resolution	3264 × 2448, 2048 × 1536, 640 × 480 etc.	P.104
17	AF target mark Metering target mark		P.50 P.81, 82
18	Number of storable still pictures	30	P.104
	Remaining recording time	04:00	P.55
19	AE lock AE memory	(AEL) MEMO	P.85
20	Metering mode	•, •	P.81
21	ISO	ISO50, ISO100, ISO200, ISO400 etc.	P.107
22	White balance	仚⊾, 凸, 漴, 苎, 鶑 to 鶑 4 , 条, CWB1 to CWB4,	P.109
			P.111
	White balance compensation	B1 to B7, R1 to R7	P.112
24	Scene modes	n, 🔺, 🕑	P.117
	Hue	RGB −5 to +5	P.116
25	Saturation	RGB –5 to +5	P.117
	Sharpness	⑤ –5 to +5	P.114
	Contrast	© –5 to +5	P.115
26	Memory gauge	▋, ▋, ▋, 目	P.14
27	Card	[xD], [CF]	P.23

Playback mode

1

Note

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



Still picture



Movie

	Item	Indication	Ref. page
1	Battery check	(EA, CA	P.14
2	Card	[xD], [CF]	P.23
3	Print reservation/ number of prints Movie	丘×10 路	P.178 P.128
4	Sound record		P.100, 101, 128
5	Protect	Œ	P.142
6	Record mode	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.102
7	Resolution	3264 × 2448, 2048 × 1536, 640 × 480, 320 × 240 etc.	P.104
8	Aperture value	F2.4 to F8.0	P.70
9	Shutter speed	8' to 1/4000	P.71
10	Exposure compensation	-2.0 to +2.0	P.108
11	White balance	WB AUTO, 介, 凸, 襟, 峚, 黨 to 黨, 佘, 囗	P.109 P.111
12	ISO	ISO50, ISO100, ISO200, ISO400 etc.	P.107
13	Date and time	'04. 4.17 15:30	P.168
14	File number Playing time/Total recording time	FILE : 100 - 0030 00:00/00:36	P.176 P.128

 The indications that appear on a movie picture that has been selected and displayed from the index display are different from those that appear when the movie picture is displayed using the movie playback function. Names of parts

Memory gauge

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



Memory gauge -----



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.



How to use this manual

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



Follow the arrows to perform menu operations. For details on operating procedures, see "Menu basics" (P.38).



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

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

Indications used in this manual

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

1 Getting started

Attaching the strap

- 1 Pass the lens cap string through the hole in the lens cap, then pass the other end through the loop and pull tight.
- 2 Pull the ends of the strap out of the stopper and ring.
- **3** Thread the strap through the string loop (attached to the lens cap in Step 1).
- 4 Thread the strap through the strap eyelet, then back through the ring and stopper as indicated by the arrows.
- 5 When you have decided how long you want the strap to be, pull on the strap in the stopper (A) to make sure it is securely fastened.
- 6 Attach the strap to the other eyelet following Steps 3 to 5.

• Be careful with the strap when you carry the camera, as it can easily catch on stray objects, causing injury or damage.

 Attach the strap correctly as shown above so that the camera does not fall off. If the strap is attached incorrectly and the camera falls off, Olympus is not responsible for any damages.

Note









This camera uses one BLM-1 lithium ion battery. Other batteries cannot be used

The battery is not fully charged at the time of purchase. Before using the camera, charge the battery using the BCM-2 charger. For more details, read the instructions provided with the charger.

- 1 Plug the power cord into the charger.
- 2 Plug the other end of the power cord into a household electrical outlet.
- **3** Remove the protection cap from the battery. Place the battery on the charger, making sure that it is correctly oriented as shown in the illustration.
 - · Align the battery with the guideline on the charger (=), and insert the battery into the charger as far as it goes.
 - · Meaning of the charge lamp indications: Lights red : Charging Lights green : Charging is completed Blinks red : Charging failure
 - · The battery charges in approximately 5 hours. The charging time may differ according to the amount of power left in the battery.





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





AC wall outlet



Loading the battery

This camera uses one BLM-1 lithium ion battery.

1 Make sure the camera is turned off.

The monitor is off.

Inserting a battery

illustration.

- The viewfinder is off.
- · The lens is retracted.

Insert the battery, making sure that it is correctly oriented as shown in the

· The battery lock secures the battery when

Battery compartment lock





Removing the battery

correctly loaded.

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

- The battery is ejected.
- Keeping your hand over the battery to stop it falling out, turn the camera right way up and remove the battery.
- 4 Close the battery compartment cover.
- 5 Slide the battery compartment lock from \bigcirc to \bigcirc .





Battery level warning -

The amount of power consumed varies considerably depending on the operations performed on the camera. If you use an exhausted battery, the camera may turn off without displaying the battery level warning (P.14).

Other ways to power the camera

AC adapter

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

Use an AC adapter designed to operate on the AC voltage in the area the camera is being used.

Consult your nearest Olympus dealer or Service center for details.



Power battery holder

The optional power battery holder allows you to shoot for longer than when using the lithium ion battery. Be sure to remove the battery compartment cover pushing to the direction of the arrow when attaching the power battery holder to the camera.

For more details, read the instructions provided with the power battery holder.



TIPS -----

How to use the charger in another country

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

- If the battery power runs out while the camera is connected to a PC or printer, the image data may be lost or damaged. You are recommended to use the AC adapter when transferring images to a PC or printer. Do not connect or disconnect the AC adapter while the camera is communicating
 - Do not remove or load the battery or connect or disconnect the AC adapter while the camera is turned on. Doing so could affect the camera's internal settings or functions.
 - The battery consumption may vary according to the shooting conditions, etc.
 - Power is consumed continuously during the conditions described below. This discourages the power to last longer.
 - When the monitor is turned on.
 - · Repeated zoom adjustments.

with the PC or printer.

- · Repeated auto-focus by depressing the shutter button halfway.
- When the FULLTIME AF mode is turned on.
- When the camera is connected to a PC or printer.
- When using an AC adapter, power is supplied to the camera by the AC adapter even if a battery is loaded in the camera. The AC adapter does not charge the battery in the camera.
- · Carefully read the instructions for the AC adapter before use.

Inserting a card

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

Card basics

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

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

xD-Picture Card

16 MB to 512 MB



① Index area

You can write down the card's contents.

② Contact area

Comes into contact with the camera's signal read contacts.

CompactFlash (CF) (optional)

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

 The camera may not function normally with some types of CompactFlash cards.

Microdrive (optional)

You can use Microdrive that supports CF+Type II (CompactFlash expansion standard). Microdrive is a compact hard disk drive. Be sure to read the "Precautions for using Microdrive" (P.24).

V
Note

- 340 MB Microdrive cannot be used.
- This camera may not recognize a non-Olympus card or a card that was formatted on another device (such as a PC). Before use, be sure to format the card on this camera. I reformatting cards" (P.166)



1 Make sure the camera is turned off.

- The monitor is off.
- The viewfinder is off.
- · The lens is retracted.
- 2 Open the card cover.

3 Insert a card.

xD-Picture Card

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

CompactFlash/Microdrive

- Hold the card straight and insert it correctly into the rear slot, as shown.
- Set the eject button in the down position.

4 Close the card cover securely until it clicks.

Removing the card

xD-Picture Card

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

The card will be ejected. Take hold of the card and pull it out.

-Note-

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







CompactFlash/Microdrive

- Set the eject button in the upright position.
- Press the eject button gently all the way in. The card will be ejected a short way.
- Take hold of the card and pull it out.
- Return the eject button to the down position before closing the card cover.



- Do not push the card in with a pen or similar hard or pointed object.
- Note

Never open the card cover, or remove the card or the battery while the camera is turned on. Doing so could destroy the data stored on the card. Once destroyed, data cannot be restored.

Switching cards

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

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

The indication alternates between the two slots.



Selected card



[xD] : xD-Picture Card [CF] : CompactFlash or Microdrive

Precautions for using Microdrive

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

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

Operating environment

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

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

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

Precautions regarding Microdrive

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

Camera operations

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

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

If CARD ERROR is displayed

If no pictures can be recorded or downloaded, run SCANDISK on a PC.
 IS "Error codes" (P.200)

Getting started

Turning the power on/off

1 Press the catch on the lens cap in the direction of the arrow and remove the lens cap.



2 Turn the mode dial until the mode you want to use is aligned with the red line.

SET UP mode IN P.45

Use this mode to perform basic camera settings, such as date/time and beep sound. When the camera is turned on, the SET UP mode menu is displayed on the monitor.



Playback mode I P.121 Use this mode to view pictures you have taken on the monitor.

3 Press the power switch.

Shooting mode I P.46 Use one of these positions when you want to take pictures.

• The mode in which the camera turns on depends on the position of the mode dial.

Shooting mode:

The camera turns on in the shooting mode. The monitor turns on and the lens extends.

Playback mode:

The camera turns on in the playback mode and the monitor turns on.

SET UP mode:

The menu is displayed on the monitor.

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





4 Press the power switch again to turn the camera off.



TIPS -

Setting the date and time

Pictures are saved with the date and time when they were taken. Setting the date and time" (P.168)

Selecting a language for on-screen display

You can select the language in which illustrations and explanations are displayed on the monitor.

Selecting a language for on-screen display" (P.167)

The viewfinder or monitor turned off

 To reduce battery consumption, the lens retracts to the widest position and the camera automatically enters the sleep mode after about 3 minutes of nonoperation. The camera activates again as soon as you touch the shutter button or zoom lever. You can select the length of time until the camera enters the sleep mode.

SLEEP – Setting the time until the camera enters sleep mode" (P.169)

 To reduce battery consumption, the camera turns off automatically and the lens retracts after about 4 hours of non-operation. To resume operation, turn the camera on again.

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

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.

Monitor indication	Corrective action
[] NO CARD	There is no card in the camera or the card is not inserted properly. → Insert a card. If a card is already inserted, remove it and insert it again.
CARD SETUP [xd] POWER OFF T FORMAT SELECT+B GO+OK	The card cannot record, play back or erase pictures. Replace the card with a new one or format the card. → Press corr to select POWER OFF, then press corr the card with a new one. → Format the card. Press corr to select T FORMAT, then press to display the confirmation screen. Select YES and press corr Formatting starts. If the card was successfully formatted, the camera is ready to take pictures.



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

Note

Adjusting the viewfinder

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

1 With the viewfinder off, press ID to turn it on.

- 2 Look through the viewfinder and slowly turn the diopter adjustment ring.
- 3 Turn the diopter adjustment ring until the AF target mark can be seen clearly.



Diopter adjustment ring



AF target mark

Attaching the lens hood

When light shines directly on the lens, flare or ghosting may occur. To prevent this happening, attach a lens hood.

- Fit the lens hood matching the lens hood indicator () with the indicator on the lens.
- 2 Turn the lens hood in the direction of the arrow as far as it goes.

Note



The lens hood cannot be attached or detached when the lens cap is on.

The lens cannot be retracted with the lens hood attached backwards.

Holding the camera

Hold the camera firmly with both hands while keeping your elbows at your sides to prevent the camera from moving. When taking pictures in the vertical position, hold the camera in a position as shown in the illustration.

Keep your fingers, the strap and the lens cap away from the lens, flash and AF sensor.



- Clear pictures cannot be obtained if the camera moves as the shutter button is pressed. Hold the camera correctly, and press the shutter button gently.
- Note For the best results, hold camera at right position so that flash is positioned higher than the lens.

Changing the angle of the monitor

You can change the angle of the monitor. This is useful for taking low-angle shots where the viewfinder or monitor is hard to see.

1 Take hold of the monitor as shown in the illustration and pull it out.



- 2 To take low-angle shots, position the monitor in the up position as shown.
 - The monitor can be positioned in the down position at an angle of 45 degrees and in the up position at an angle of 22, 45 or 90 degrees.
 - To take high-angle shots, position the monitor in the down position.



Ï

2 Using the buttons and menus Direct buttons and menus

This camera is equipped with direct buttons for quick operation and setting of various shooting and playback-related functions. The setting screens are displayed on the monitor when the direct buttons are pressed. Menus are also provided for selecting the various shooting and playback settings.

Functions that can be set using the direct buttons can also be set using the menus.

Ex 1: To select a metering mode



Using the direct button

Press 💽.



- The setting screen is displayed on the monitor.
- Turn the control dial while holding down (i) to select a metering mode.

Using the menus

Press () to display the menu, then select MODE MENU – CAMERA tab – ESP/••.



• Press (2) (2) to select a metering mode.



Flash intensity control can be adjusted directly by turning the control dial while holding down 32.

Direct buttons

The direct buttons have different functions in the shooting mode and in the playback mode. Turning the control dial while holding down the direct button allows you to select menu options or change the values for the different functions.

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

Direct button basics

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

Ex: Using the 🗲 (flash mode) button

1 Turn the control dial while holding Control dial down \$\$ to select the flash mode.

- The setting screen is displayed on the monitor.
- At the moment you release your finger from the **\$** button, the flash mode setting is made.
- If the operation guide is displayed at the bottom of the screen, you can select further options.
- 2 Press (a) while holding down \$ to display the menu.

Release the direct button after the menu is displayed.

- The menu for changing the current settings for the various flash options is displayed.
- **3** Follow the operation guide to select the item and option you want to change.

For further details, see "Menu basics" (P.38).



Operation guide



The icons displayed in the operation guide correspond to the arrow pad and () button.



options.

Ex) When the $\dot{\odot}/\dot{a}$ (self-timer/remote control) button is used

Turn the control dial while holding down $\dot{\mathfrak{S}}/\overset{1}{\mathfrak{b}}$ to change the setting.

If you select **b**, the operation guide is displayed.





Operation guide Pressing (2) while holding down (3)/1 displays the screen for selecting the time that remote control is activated.

Functions that can be set using the direct buttons






Playback mode



1	On (protect) button	I €€ P.142
	Protects important pictures from accidental erasure.	
2	INFO (information display) button	₽ 37 P.135
	Displays the shooting information and histogram.	
3	🖆 (rotation) button	₽ 3 P.123
	Rotates pictures 90 degrees clockwise or counterclockwise.	
4	凸 (print) button	₽ ₽.178
	Stores print reservation data on the card.	
5	lâ (erase) button	I © ₽.143, 144
	Erases a selected picture.	

Using the menus

There are two types of menu: the top menu which is the first screen that appears on the monitor when you turn on the camera and press (**), and the MODE MENU which categorizes settings into tabs. The functions of this camera are set from the menus. When the mode dial is set to **SET UP**, the MODE MENU is displayed instead of the top menu.



Menu basics

This section explains how the menus work, using the \mathbf{P} mode screens. Setting the mode dial to SET UP displays the screen in Step 2.





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 even if the camera turns off, set ALL RESET to OFF. I still (P.145)
 "ALL RESET – Saving the camera's settings" (P.145)

Shooting mode



Selects a shooting mode from (single-frame shooting), HI	
speed sequential shooting), 🖳 (sequential shooting),	P.92
AF [] (AF sequential shooting) and BKT (auto bracketing).	

∮ (movies)

Selects whether to record sound when shooting a movie. P.101
--

ISO

Selects the ISO value from AUTO or in the range of ISO 50 to ISO 400.	P.107

DIGITAL ZOOM

Digitally enhances the maximum optical zoom.	P.58
--	------



TIPS -----

●Playback mode (►)



Runs through all saved pictures one after another.	P.127

MOVIE PLAY

MOVIE PLAYBACK	Plays back movies.	P.128
INDEX	Creates an indexed view of a movie in 9 frames.	P.131
EDIT	Edits a movie.	P.132

₽

Displays guidelines on the image.	P.136

COPY

Copies pictures to and from cards. Lets you select whether to copy all frames or only a selected frame.	P.141

Ų

Mode menus

The MODE MENU functions are divided into tabs. Press (2) to select a tab and display the associated menu items.

TABS -

CAMERA tab : regards picture taking.PICTURE tab: regards picture appearance.EDIT tab: regards editing picture already taken.CARD tab: regards memory card formatting, etc.tab: regards customizing functions.SETUP tab: regards basic settings of the camera.

Shooting mode (P A S M 🔊 🍄 步 📥 💸 🔊 mode)

CAMERA tab	ELASH MODE DAUTO
PICTURE tab	
CARD tab	
🏦 tab	.# O/i Doff

CAMERA tab		
FLASH MODE	Selects flash-related settings. Sets the options available in flash mode, flash intensity control, external flash and slow synchronization.	P.59
AF/W/MF	Sets the options available in focus mode, AF mode, fulltime AF and P-AF.	P.74, 75, 76
ESP/	Selects a metering mode from ESP, spot metering, multi- metering and center-weighted metering.	P.81
	Selects a shooting mode from (single-frame shooting), HI (high speed sequential shooting), G (sequential shooting), AF (AF sequential shooting) and BKT (auto bracketing).	P.92
ి/ఓ	Selects the self-timer or remote control function.	P.89, 90
ISO	Selects the ISO value from AUTO or in the range of ISO 50 to ISO 400.	P.107
DIGITAL ZOOM	Digitally enhances the maximum optical zoom.	P.58
NOISE REDUCTION	Reduces the noise that affects pictures during long exposures.	P.118
FUNCTION	Enables panorama and guideline shooting, and lets you take pictures in black & white or sepia tone.	P.95, 97, 98
FRAME ASSIST	Displays lines as a guide for composing the picture.	P.99
Ŷ	This function lets you record sound when taking a still picture.	P.100
MY MODE	Selects a mode to be activated when taking pictures in $\fbox \mathfrak{M}$ mode.	P.73
	Displays a histogram showing the luminance distribution of still pictures.	P.119

PICTURE tab		
WB	Sets the appropriate white balance according to the light source. Also adjusts and saves the white balance. P.109	
4 :	Sets the image quality and resolution. Still pictures : RAW, TIFF, SHQ, HQ, SQ1, SQ2 Movies : SHQ, HQ, SQ	P.102
SCENE MODES	Lets you take pictures suited to the situation and the desired effect ($[\mathbf{C}]$, $[\mathbf{M}]$, $[\mathbf{S}]$).	P.117
SHARPNESS	Adjusts the sharpness of the image.	P.114
CONTRAST	Adjusts the contrast of the image.	
HUE	Adjusts the overall tint of the picture.	P.116
SATURATION	Adjusts the level of color depth without changing the tint.	P.117

CARD tab		
CARD SETUP	Formats a card.	P.166

🏦 tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	
REC VIEW	Displays the picture on the monitor while recording it to a card.	
BEEP	Sets the beep sound used for button operations and adjusts the volume.	
SHUTTER SOUND	Sets the sound made when the shutter button is pressed and adjusts the volume.	
DIAL	Changes the control dial, arrow pad and direct button functions.	
EV STEP	V STEP Selects whether to set the shutter speed, aperture value and exposure compensation, etc. in 1/3EV steps or in 1/2EV steps.	
CUSTOM BUTTON Lets you assign a frequently used function to the camera's custom button.		P.154
SHORT CUT Lets you assign frequently used functions as shortcut menus.		P.157
MY MODE SETUP	DDE SETUP Customizes settings which are activated in the mode.	
CONTROL PANEL	Displays the settings in the shooting mode on the monitor.	P.163

●Playback mode (►)

EDIT tab CARD tab Lab	
-----------------------------	--

(for still pictures)

EDIT tab*		
RAW DATA EDIT	Sets the image quality, white balance, etc. of pictures taken in RAW data format and saves them as new files.	P.140
¥	Makes the file size smaller and saves it as a new file.	P.138
₽	Crops part of a picture and saves it as a new file.	P.139
COPY	Copies pictures to and from cards. Lets you select whether to copy all frames or only a selected frame.	P.141
* The EDIT tab is not	displayed during movie playback	

The EDIT tab is not displayed during movie playback.

CARD tab		
CARD SETUP	Erases all image data stored on the card or formats a card.	P.144, 166
🖍 tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P.145
BEEP	Sets the beep sound used for button operations and adjusts the volume.	P.148
VOLUME	Adjusts the sound volume during playback.	P.165
8	Selects the number of frames in the index display.	P.126

● SET UP mode



The functions assigned to the ****** tab in both shooting and playback modes can also be set from the ****** tab in **SET UP** mode.

🏦 tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	
REC VIEW	Displays the picture on the monitor while recording it to a card.	
BEEP	Sets the beep sound used for button operations and adjusts the volume.	P.148
SHUTTER SOUND	Sets the sound made when the shutter button is pressed and adjusts the volume.	P.149
DIAL	Changes the control dial, arrow pad and direct button functions.	P.150
EV STEP	Selects whether to set the shutter speed, aperture value and exposure compensation in 1/3EV steps or in 1/2EV steps.	P.153
CUSTOM BUTTON	Lets you assign a frequently used function to the camera's custom button.	P.154
SHORT CUT	Lets you assign frequently used functions as shortcut menus.	P.157
MY MODE SETUP	SETUP Customizes settings which are activated in the M mode.	
CONTROL PANEL	EL Displays the settings in the shooting mode on the monitor.	
VOLUME	OLUME Adjusts the sound volume during playback.	
8	Selects the number of frames in the index display.	
SETUP tab		
	Selects a language for on-screen display.	P.167
Ð	Sets the date and time.	
■)))	Sets the beep sound used for warnings and adjusts the volume.	
SLEEP	SLEEP Sets the time from the moment the camera was last operated until it enters sleep mode.	
FILE NAME	FILE NAME Changes how file names are assigned.	
BATTERY SAVE	BATTERY SAVE Turns the powersaving mode on and off.	
PIXEL MAPPING	MAPPING Checks the CCD and image processing functions for errors.	
Adjusts the brightness of the viewfinder or monitor.		P.173
m/ft	Sets the measurement unit (m/ft) used during manual focus.	P.173
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type. TV video signal types differ depending on the region.	
AF ILLUMINATOR	Turns on the AF illuminator to illuminate a dark subject.	P.78
USB	SB Sets whether the camera is connected to a PC or a printer with the USB cable.	

3 Shooting basics

Shooting mode

The shooting mode includes modes where the optimal settings for the situation are automatically selected, and modes where you can select the settings best suited to the shooting conditions and the effect you wish to achieve. You can change the mode with the camera turned on, or off.



Setting-related modes

P Program shooting

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

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

- Press (2) (3) to change the aperture value and the shutter speed that determines an appropriate exposure.
- Ps is displayed on the monitor in the program shift mode.
- To cancel the program shift mode, do one of the following:
 - If the combination of shutter speed and aperture value was changed by pressing a, press s until Ps goes out.
 - If the combination of shutter speed and aperture value was changed by pressing , press a until **Ps** goes out.
 - Change the mode to \mathbf{A} , \mathbf{S} , \mathbf{M} , \mathbf{M} ? or \mathbf{A} .

A Aperture priority shooting

Allows you to set the aperture manually. The camera sets the shutter speed automatically. By decreasing the aperture value (F number), the camera will focus within a smaller range, producing a picture with a blurred background. Increasing the value forces the camera to focus over a wider range in the forward and backward directions, resulting in a picture in which both the subject and the background are in focus.

■ "Aperture priority shooting" (P.70)





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.71)



Setting the shutter speed higher lets you capture fastmoving action without blur. The subject will be clear and sharp, as if it were 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 displayed on the monitor. 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. Using bulb allows you to take pictures at the max of 8 min of long exposure.



My Mode

Allows you to save your favorite settings as your own personal mode and use these customized settings when taking pictures. Current settings can also be saved for retrieving by this mode. If "MY MODE SETUP – Setting a function in My Mode" (P.160) If "Using My Mode" (P.73)

🛱 Movie record

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

Recording movies" (P.55)

Situation-related modes

Night Scene shooting

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



Landscape shooting

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

💸 Sports shooting

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

🔊 Portrait shooting

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



 The available settings vary depending on the mode. Is "List of items by shooting mode" (P.217)

Taking still pictures

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



- selected by the camera are displayed on the monitor (except in M mode).
- · Monitor indications when the shutter button is pressed halfway are shown in the following table.

Indication Meaning		Meaning
	Lights	Flash stand-by. The flash fires when the shutter-release button is pressed all the way.
Blinks		If the flash has popped up: flash is charging. Remove your finger from the shutter button and wait until the lamp goes off. If the flash is closed: camera movement warning. Press the flash pop-up button to open the flash.
Green	Lights	The picture is in focus or the exposure is locked.
lamp	Blinks	The picture is out of focus or the exposure is not locked. Also see TIPS on P.51.

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

- · The camera takes the picture.
- · The card access lamp blinks while the picture is stored on the card.
- · You can check the picture you have taken by pressing the QUICK VIEW button. IN "QUICK VIEW" (P.122)

Canceling recording to the card

You can cancel recording to the card while the picture you have taken is being stored. Once recording to the card has been terminated, the picture will not be stored. You can cancel recording to the card when the picture was taken in RAW or TIFF record mode. If "Record mode" (P.102)

- 1 Press [™]/_☉ while the picture you have taken is being recorded to the card (while the card access lamp is blinking).
 - The picture just taken is displayed on the monitor.



2 Press (2) (2) to select REC. START or REC. CANCEL (CANCEL ONE or CANCEL ALL), then press (2).

 REC. START
 Recording to the card is resumed. The picture displayed on the monitor is stored on the card.

 REC. CANCEL
 The picture displayed on the

monitor is not stored on the card.

- REC. CANCEL [xD] REC. START REC. CANCEL SELECT + : GO + OK
- REC. CANCEL is not displayed in sequential shooting mode or when several pictures are taken in succession. In this case, select CANCEL ONE or CANCEL ALL.
 - CANCEL ONEThe picture displayed on the
monitor is erased without being
stored on the card. All other
pictures are stored on the card.CANCEL ALLNone of the pictures taken is
stored on the card.



TIPS

The subject cannot be focused on.

IS "If correct focus cannot be obtained" (P.53)

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 5cm/(1.2") from the subject. IS "Super macro shooting" (P.88)
- → Depending on the subject, the focus and exposure may not be locked. IS "Subjects that are difficult to auto focus on" (P.54)

To check the picture you have just taken immediately.

→ Set REC VIEW to ON. IS "REC VIEW – Checking the picture immediately after shooting" (P.147)

To record sound when taking pictures.

→You can record sound when taking still pictures. Set to ON. Set "Recording sound with still pictures" (P.100) You can also add sound to a picture that has already been taken. Set "Recording sound" (P.137)

The viewfinder or monitor turned off.

→ The camera automatically enters the sleep mode and the viewfinder and monitor turn off after about 3 minutes of non-operation. Touch the shutter button or zoom lever to turn the viewfinder or monitor on again. You can select the length of time until the camera enters the sleep mode.
ISP "SLEEP – Setting the time until the camera enters sleep mode" (P.169)

To adjust the brightness of the viewfinder or monitor.

→ Select 🛄 in the mode menu and adjust the brightness. IS "Adjusting the brightness of the monitor and viewfinder" (P.173)

The viewfinder or monitor is hard to see.

→ When you point the camera lens toward a bright subject, smears (lines like beams of light) may appear on the image in the viewfinder or on the monitor. This does not affect recorded pictures.

To check the area the camera is focusing on.

IS "Using the digital zoom" (P.58)



- Press the shutter button gently using the ball of your finger. If it is pressed hard, the camera may move and pictures may come out blurred.
- Recorded pictures will be saved on the card regardless of whether the camera is turned off or the battery is replaced or removed.
- Do not open the card cover, remove the battery or connect/disconnect the AC adapter while the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.
- When taking pictures against strong backlight, the area of the picture in shadow may appear colored.

T

Note

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)



- 1 Position the AF target mark on the subject you want to focus on.
 - · When shooting a hard-to-focus subject or a fastmoving subject, point the camera at an object about the same distance away as the subject.
- 2 Press the shutter button halfway and check that the green lamp lights steadily.
 - When the focus and exposure are locked, the green lamp lights steadily.
 - The AF target mark moves to the focus position.
 - · When the green lamp blinks, the focus and exposure are not locked. Release your finger from the shutter button, reposition your subject and press the shutter button halfway again.
- 3 Keeping the shutter button pressed halfway, recompose your shot.

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







Green lamp 1/200 F5.0 84×244





TIPS The frame in which you focus on a subject is different from the frame in

which you lock the exposure.

■ "AE Lock - Locking the exposure" (P.85)

You want to focus on the center of the frame. ■ "AF MODE - Changing the focus range" (P.74) 3

Subjects that are difficult to auto focus on

Under certain types of conditions, the auto focus may not work properly. If this happens, focus on an object with high contrast at the same distance as the intended subject (focus lock), recompose your shot and then take the picture. If the subject has no vertical lines, hold the camera vertically and focus the camera using the focus lock function by pressing the shutter button halfway, then return the camera to the horizontal position while keeping the button pressed halfway and take the picture.

If the subject still cannot be focused on, use the manual focus. ${\rm I\!I\!I\!S\!S}^{\rm sm}$ "Manual focus" (P.79)



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

distances

Recording movies

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



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

Turning the power on/off" (P.25)

• The remaining recording time on the card that you are using is displayed on the monitor.







- You can use the zoom lever to enlarge your subject.
- **3** Press the shutter button fully to start recording.
 - The focus and zoom are locked.
 - 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.
- When there is space in the card memory, the remaining recording time is displayed, and the camera is ready to shoot the next movie.
 IS "Movie Record Modes" (P.104)



Remaining recordingtime

3

Shooting basics

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TIPS



To keep your subject in focus all the time while shooting.

The auto focus does not operate during recording when ${\bf \P}$ (movie) is set to ON.

To use the zoom while shooting.

The optical zoom is not available during recording when ${\bf \Psi}$ (movie) is set to ON.

- \rightarrow Set DIGITAL ZOOM to ON. I S^a "Using the digital zoom" (P.58)
- → Set ♥ (movie) to OFF, and you can use the optical zoom while shooting. IS "Recording sound with movies" (P.101)



- Depending on the card, the remaining recording time may drop rapidly during recording. Try using the card again after formatting it.
 IS "Formatting cards" (P.166)
- When I is set to ON, the movie is recorded with the focus that was set when the shutter button was pressed in Step 3. If the distance to the subject changes, focus may be compromised.
- In ♀ mode, the flash and manual focus (MF) cannot be used.

- Notes for recording movies over a long time -

- Recording will continue until the card is full unless stopped by pressing the shutter button.
- A long recorded movie cannot be edited. (P.130)
- If a single movie recording uses up all of the card's memory, create space on the card by deleting the movie or downloading it to a PC.

Zoom

Telephoto and wide-angle shooting are possible at 5× magnification (the optical zoom limit, equivalent to 28 mm to 140 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 15×.

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

Using the optical zoom



Using the digital zoom



- Mode dial
- 1 In the top menu, select DIGITAL ZOOM \rightarrow ON, and press (2).
- 2 Turn the zoom lever toward T.
 - The white area of the zoom indicator indicates the optical zoom. If the digital zoom is set to ON, a red area appears on the zoom indicator. When you reach the limit of the optical zoom, the digital zoom is enabled.



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

- In A mode, the maximum digital zoom magnification is 2.5×.
- Note
- · Pictures taken with the digital zoom may appear grainy.

4 Flash

Flash shooting

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



- **1** Press the flash pop-up button (\mathbb{O}) .
 - The flash pops up (@).



Control dial



 The flash mode changes in the sequence shown below. (The selectable flash modes may differ depending on the shooting mode.)



3 Press the shutter button halfway. • 4 lights when the flash is ready to fire.

4 Press the shutter button fully to take the picture.

Flash working range W (max.): Approx. 0.8 – 5.8 m (2.6 – 19 ft.) T (max.): Approx. 0.2 – 4.0 m (0.7 – 13.1 ft.)





\$ mark





The \$ (flash charging) indication blinks.

 \rightarrow The flash is charging. Wait until \clubsuit goes off.

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

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

Zoom position	Shutter speed
W (max.)	1/30 sec.
T (max.)	1/125 sec.

Note

- The flash does not fire in the following situations:
 - In 🏠 mode, during sequential shooting (HI 🛄, 🛄, AF 🛄, 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.
 - When a conversion lens is attached to the camera, vignetting may occur. To take flash pictures, use an external flash.

Auto-flash (No indication)

The flash fires automatically in low light or backlight conditions.

●Red-eye reduction flash (④)

The light from the flash may make the subject's eyes appear red in the picture. The red-eye reduction flash mode significantly reduces this phenomenon by emitting pre-flashes before firing the regular flash. This helps accustom the subject's eyes to the bright light and minimizes the red-eye phenomenon.



The subject's eyes appear red.



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

●Fill-in flash (�)

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



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

Flash off (())

Note

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. Besides setting the mode to (3), flash does not fire when it is closed.

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

●Slow synchronization (\$SLOW1 \$SLOW2 ④\$SLOW1)

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





1st curtain (front curtain) \$\$ SLOW1

Usually, regardless of the shutter speed, the flash fires right after the shutter fully opens. This is called 1st curtain. Unless you change it, this is how the flash always fires. The factory default setting for slow synchronization is \$ SLOW1.

2nd curtain (rear curtain) \$\$ SLOW2

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

The slowest possible shutter speed depends on the shooting mode:

A, S, M mode : 15 sec. (Bulb shot is available in M mode.) P, , , ▲, , , , mode : 4 sec.

When the shutter speed is set to 4 sec.



1st curtain with red-eye reduction 👁 🖇 SLOW1

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

Using the slow synchronization flash **\$sLow**



1 Press (*) while holding down 4.



SELECT + C GO + OK

तुः Flash

- **2** Press O to select \ddagger SLOW, then press O.
- 3 Press (a) (c) to select \$\$ SLOW1, (c) \$\$ SLOW or \$\$ SLOW2, then press (a).

Flash intensity control

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



The flash intensity can be set in 1/3EV steps or 1/2EV steps.
 "EV STEP – Setting exposure adjustment increments" (P.153)



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

External flash (optional)

Using an Olympus external flash

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

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

The external flash is mounted on the camera by attaching it to the hot shoe on the top of the camera. To use the external flash together with the built-in flash, the FL-BK01 flash bracket (optional) and FL-CB02 bracket cable (optional) are required.

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



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





- 2 Press while holding down \clubsuit .
- 3 Press ☺ ☺ to select [≅] ¶ FLASH, then press ^(b).

IS "Menu basics" (P.38)

To use the external flash only

→ Select \exists , then press B.



To use the external flash together with the built-in flash, use Olumpus flash bracket must be bracket cable (both optional).

→ Select IN+^{\exists}, then press B.

4 Turn on the external flash.

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

5 Select the flash mode by turning the control dial while holding down \$\mathcal{z}\$.

■ "Flash shooting" (P.59)



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

Note

Using a commercially available external flash

Provided that the flash can be connected to the hot shoe, a commercially available external flash may be used. For details on compatible commercially available external flashes, refer to the next page. The amount of light emitted cannot be adjusted on commercially available external flashes except Olympus FL series. If the external flash gets in the way of the built-in flash when the flash pop-up button is pressed, use a flash bracket.



- 1 Attach the external flash to the hot shoe and connect it to the camera.
 - For instructions on how to attach the flash, refer to the manual for the external flash.
- 2 Select M mode. Adjust the shutter speed and aperture.

Manual shooting" (P.72)

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



- Be sure to attach the flash to the camera before turning the flash on.
- 4 Set the mode that automatically controls the amount of light emitted by the external flash. Also set ISO and aperture on the external flash to match the camera's settings.
 - · Refer to the user's manual for the external flash to select the mode.



• The camera's flash mode will have no effect on the external flash. The external flash will fire even when the camera's flash mode is set to (2) (off).

• Confirm in advance that the external flash you are using is synchronized with the camera.

Compatible external flashes

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

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

For devices with a long flash time, a portion of the light emitted will not contribute to the exposure.

(7) If a flash unit or other accessory TTL flash that has additional communications functions other than an Olympus FL series flash is used, it may not only fail to function normally, but may also cause damage to the camera's circuitry. Do not use such a device.

Using the slave flash mode

This setting is for when using a commercially available slave flash that is synchronized with the camera flash.

The amount of light emitted by the flash can be adjusted in 10 levels. The flash can fire in sequential shooting mode, but the interval between shots will be longer if a high emission level is set.

: The setting is automatically changed to **4** (Fill-in flash). AUTO, 🕥 OS SLOW : The setting is automatically changed to **\$** SLOW1.



1 Press () while holding down 4.



SELECT + OK

- button
- **2** Select \exists FLASH \rightarrow SLAVE, and press \hat{b} .

Menu basics" (P.38)

- **3** Press O to select an emission level from 1 to 10, then press (*).
- 4 Press (*) repeatedly until the menu disappears.

5 Advanced shooting

Aperture priority shooting



Mode dial A M

1 Turn the control dial to set the aperture value.

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



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

 You can change the adjustment range for the aperture. IS "EV STEP – Setting exposure adjustment increments" (P.153)



 If the aperture value is displayed in red, the setting is unsuitable for the conditions. Take the following steps. (If the shutter speed is displayed in green, the setting is suitable for the conditions.)



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

✓ appears: The image is underexposed. Turn the control dial to the left to reduce the aperture value.

Aperture range: Toward W: f2.4 to f8.0, Toward T: f3.5 to f8.0

• When the flash is set to the auto-flash mode or the fill-in flash mode, the shutter speed is fixed at 1/30 sec. in the maximum wide angle, or 1/125 sec. in the maximum telephoto angle, and will not go slower.



Shutter priority shooting



1 Turn the control dial to set the shutter speed.

Turn to the left to set a slower shutter speed.



Turn to the right to set a faster shutter speed.



- You can change the adjustment range for the shutter speed. IS "EV STEP – Setting exposure adjustment increments" (P.153)
- If the shutter speed is displayed in red, the setting is unsuitable for the conditions. Take the following steps. (If the shutter speed is displayed in green, the setting is suitable for the conditions.)



Shutter speed



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

Shutter speed range : 15" to 1/4000

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



TIPS ----- Shutter speed indication

The actual shutter speed differs from the shutter speed displayed on the monitor. The actual shutter speed range of the camera is 16 to 1/4000 sec., but the speed is displayed in the range of 15" to 1/4000 on the monitor.

Note

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

while holding down 12.

M



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Note 72 TIPS

To take long exposure (bulb) shots

the current exposure differential.

Aperture value : f2.4 to f8.0 Shutter speed : 15" to 1/4000

- 1 Turn the control dial to the left to set the shutter speed to BULB.
- 2 The shutter remains open as long as the shutter button is held down.
 - · The maximum bulb length is 8 minutes.
 - Using the remote control prevents camera from shaking due to pressing the shutter by finger.
 - You can connect a remote cable (sold separately) with the power battery holder (also sold separately).

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



1

Mode dial

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



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

Exposure compensation

button

Turn the control dial to set the shutter speed.

When the shutter button is halfway pressed, the

difference (ranging from -3.0 to +3.0 EV) between the two exposures is displayed. One is the exposure determined by the currently selected aperture and shutter speed, and the other is the exposure level considered optimal by the camera. · If the exposure differential appears in red in the viewfinder or on the monitor, it indicates that the

exposure differential is less than -3.0 EV or more

 When you press the AEL (AE Lock) button, the screen on the right appears with the bar indicating

Set the aperture by turning the control dial

aperture and the shutter speed. Setting exposure adjustment increments" (P.153)

Turn to the left to set a slower shutter speed.

than +3.0 EV.



Turn to the right to set a faster shutter speed.







Control dial

Using My Mode



Saving the shooting mode or function settings you want to use in advance lets you shoot with your favorite settings straightaway. By setting the mode dial to \mathbb{W}^{9}_{2} , you can select whether to use one of the 8 customized My Mode settings that you have saved.



In the top menu, select MODE MENU → CAMERA → MY MODE → MY MODE 1 to MY MODE 8, and press ⁽¹⁾/₍₂₎.

Menu basics" (P.38)

- Only the settings in MY MODE 1 have already been saved. You cannot select MY MODE 2 to MY MODE 8 if no settings have been saved in them.
 "MY MODE SETUP – Setting a function in My Mode" (P.160)





AF MODE - Changing the focus range

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

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





- If you select SPOT for the AF MODE, P-AF is automatically set to OFF.
 - P-AF Changing the auto focus mode" (P.76)
- In 🍄 mode, the AF MODE is fixed to iESP. The setting cannot be changed.

FULLTIME AF - A reliable time-saving way to focus

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



• In $\ensuremath{\mathfrak{P}}$ mode, FULLTIME AF does not operate when $\ensuremath{\Psi}$ (movie) is set to ON.

Battery consumption increases when FULLTIME AF is used.

Note

P-AF – Changing the auto focus mode

For auto focusing, this camera is equipped with a contrast detection system measured by CCD and a phase difference detection system measured by AF sensor. You can select whether to use only the contrast detection system or to use the contrast detection system in conjunction with the phase difference detection system.



- OFF The camera focuses on the subject using only the contrast detection system.
- The camera focuses on the subject using both the contrast detection ON system and the phase difference detection system. Focusing is performed faster than when OFF is selected.



- 1 Press () while holding down AF/ //MF.
 - In MF or SMF mode, the menu is not displayed when () is pressed.



P-AF

AF/ MF



OFF

SELECT + C OK

- **2** Press (a) \bigcirc to select P-AF, then press (b).
- 3 Press (2) (2) to select ON or OFF, then press 🐒.
 - Press () again to exit the menu.

• When the subject is within 80 cm (2.6 ft.) of the camera, the camera focuses using only the contrast detection system.

- Focusing may take some time if P-AF is set to ON when a conversion lens or underwater housing is attached to the camera.
 - In P mode, P-AF is fixed to OFF. The setting cannot be changed.

76

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Note

Changing the position of the AF target mark

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



1 Set the AF mode to SPOT.

■ "AF MODE - Changing the focus range" (P.74)



- 2 Hold down AF/♥/MF and use the arrow pad to move the AF target mark to the area you want to focus on.
 - In MF or SUMF mode, the AF target mark does not move when the arrow pad is pressed.

3 Take the picture.

Note

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



AF target mark

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

AF illuminator

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



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

AF/W/MF AF/Macro/MF

button

Manual focus

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



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

 When you release your finger from the AF/, //MF button, the distance indicator is displayed on the monitor.

2 Press O O to set the focus.

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

3 Take the picture.

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



Arrow pad OK button





How to shoot while keeping the same focus distance

→ Decide the focus in Step 2, then press (3). The focus is locked and MF appears in red on the monitor.

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

- 1 Position the AF target mark on a subject at the desired distance and press the shutter button halfway.
- 2 Keeping the shutter button half-pressed, press AF/W/MF.
 - The distance indicator is displayed.
 - MF is selected and the focus is locked at the same distance as when you performed focus lock.
 - · Set to AF to return to auto focus.

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

 \rightarrow Adjust the cursor position by pressing O

How to take pictures very close to the subject

→ In super macro MF mode, pictures as close as 5cm from the subject can be taken with manual focus. Turn the control dial while holding down AF/♥/MF and select s♥MF. INF "Super macro shooting" (P.88)



• When the digital zoom is set to ×2.5 or more, the area you are focusing on is not enlarged.

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

Metering



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

- **Digital ESP metering** Meters the center of the subject and the surrounding area separately.
- Spot metering (●) Exposure is determined by metering within the metering target area. In this mode, a subject can be shot with optimal exposure regardless of the background light. I ≥ P.81

Multi-metering (MULTI)

Meters the brightness of the subject at up to 8 different points to set the optimal exposure based on the average brightness. This method is useful with a high contrast subject.

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. **I** P.81

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



Advanced shooting

Changing the position of the metering target mark

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



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

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



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

- 2 Position the AF target mark on the area you want to meter and press the AEL (AE Lock) button. The brightness is metered at up to 8 different points.
 - · The multi-metering bar appears.
 - Additional metering is ignored after the 8th reading.
 - To perform metering again, press the AEL button for more than 1 second to display (MEMO). Press the AEL button again to cancel the metering values.











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

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

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



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

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

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



The multi-metering exposure is canceled.

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

AE Lock - Locking the exposure

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

For example, when the sky takes up much of the frame, shooting with automatic exposure sometimes results in a dark subject. Recompose your shot so that not much sky is in the frame, and then press the AEL button to lock the metered value (exposure) temporarily. Next, compose your shot again with the sky in the frame and take the picture.





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

AEL



During AE lock, AEL is displayed.



- 2 Position the AF target mark on the subject you want to focus on and press the shutter button halfway.
 - · The green lamp lights.

3 Press the shutter button fully.

· AE lock is automatically canceled after one shot.



To save the locked multi-metering exposure after shooting (AE memory) → After setting AE lock in Step 1, or after pressing the shutter button halfway in Step 2, hold down the AEL button for more than 1 second. (IEINO) appears. While (IEINO) is displayed, the exposure is saved. Press the AEL button again to cancel the AE memory.

AE lock was canceled.

- → Do not operate any of the buttons or the mode dial after performing AE lock. Doing so will cancel AE lock.
- \rightarrow The camera had emerged from sleep mode or the power was turned off.
- Note

1

- AE lock is not available when a menu is displayed on the screen.
 "Menu basics" (P.38)
 - AE lock is not available when the control panel is displayed on the screen.
 CONTROL PANEL Using the monitor as a control panel" (P.163)



Control dial

Focusing is usually slow when you get close to a subject (20 cm to 80 cm (0.7 ft. to 2.6 ft.)). However, in the mode focusing is performed quickly.







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

Super macro shooting

In super macro mode, pictures can be taken as close as 5cm (2.0") from the subject. Subjects measuring up to approximately $4.8 \text{ cm} \times 3.6 \text{ cm} (1.9" \times 1.4")$ can be captured on the monitor.

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



 Turn the control dial while holding down AF/W/MF and select SW.



SET + OK

Super macro MF

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

- 1 Turn the control dial while holding down AF/ ///MF and select s//MF.
- 2 When you release your finger from the AF/♥/MF button, the distance indicator is displayed on the monitor.
 - During operation, the area in the middle is enlarged. This lets you check whether the focus is correct.

3 Press (a) (5) to adjust the focus.



 During super macro shooting, the built-in flash is not available. You can use an external flash, but vignetting may occur. Display the recorded image on the monitor to check it.

Self-timer shooting

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



1 Turn the control dial while holding down $\dot{\heartsuit}/\frac{1}{2}$ and select $\dot{\heartsuit}$.

స/¦ Self-timer/ Control dial Remote control button





2 Press the shutter button fully to start selftimer shooting.

- Pressing the shutter button halfway locks the focus and exposure.
- The self-timer/remote control lamp lights for approximately 10 seconds, then starts blinking. After blinking for approximately 2 seconds, the picture is taken.
- To stop shooting while in ₽ mode, press the shutter button fully again.
- To cancel the self-timer, press 𝔅/¼.
- The self-timer mode is automatically canceled after one shot.



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



Self-timer/ Remote control lamp

5

Remote control shooting

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



- **1** Mount the camera on a tripod or place it on a stable, flat surface.
- 2 Turn the control dial while holding down $\Im/\frac{1}{2}$ and select $\frac{1}{2}$.

රා/i Self-timer/ Control dial Remote control button

4







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



- 4 Press the shutter button on the remote control device.
 - The focus and exposure are locked and the self-timer/remote control lamp blinks before taking the picture.
 - You can set the time until the picture is taken. It "Changing the time until remote control is activated" (P.91)
 - To shoot in bulb mode, press and hold down the shutter button on the remote control device. Is "Manual shooting" (P.72)



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

- → The remote control device may be too far from the camera. Move closer to the camera and press the shutter button on the remote control device again.
- →The battery in the remote control device is running low. Replace with a new battery. IS "How to replace the battery (CR2025) of the remote control device" (P.220)

How to cancel the remote control mode.

 \rightarrow The remote control mode is not canceled automatically after shooting. Perform Step 2 and set the mode to OFF.



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

Changing the time until remote control is activated

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

- **AUTO** The picture is taken immediately the shutter button on the remote control device is pressed.
- **3 SEC** The picture is taken approximately 3 seconds after the shutter button on the remote control device is pressed.
- 1 Press ⁽∰) while holding down ⁽⊗)/¹/₄.
 - In (3) mode, the menu is not displayed when (8) is pressed.

2 Press (2) To select AUTO or 3 SEC, then

press 🐒.



S)/i Self-timer/Remote control

button

Sequential shooting HI - AF - BKT

There are 4 sequential shooting modes: high speed sequential shooting, sequential shooting, AF sequential shooting and auto bracketing. Except for auto bracketing, the exposure and white balance are locked at the first frame. Sequential shooting cannot be performed when the record mode is set to TIFF.

Sequential shooting mode

	Shoots one frame at a time when the shutter button is pressed. (Normal shooting mode, single-frame shooting)
HI⊒	Pictures can be taken at a faster speed than normal sequential shooting.
	Approx. 5 frames at 1.6 frames/sec.
	The focus is locked at the first frame. The sequential shooting speed varies depending on the record mode setting.
	Approx. 17 frames (in HQ mode) can be taken in sequence.
AF	Adjusts the focus 1 frame at a time. The AF sequential shooting speed is slower than normal sequential shooting.
ВКТ	It≩ "Auto bracketing" (P.93)

High speed, sequential and AF sequential shooting



1 In the top menu, select MODE MENU → CAMERA → 및 → HI 및, 및 or AF 및, and press இ.

- 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
 j.

 SHORT CUT" (P.157)

2 Take the picture.

• The camera will take pictures in sequence until you stop holding down the button.





I P.38) "Menu basics" (P.38)

Auto bracketing

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

When auto bracketing is set, the exposure is changed automatically for each frame while the shutter button is pressed. The exposure differential and number of frames can be selected in the menus. The focus and white balance are locked at the first frame.

Fx · When BKT is set to +1 0 ×3

-10

Mode dial

1 In the top menu, select MODE MENU \rightarrow CAMERA $\rightarrow \Box_{\parallel} \rightarrow BKT$, and press $\hat{\wp}$. Menu basics" (P.38)

Α

S

- 2 Select the exposure. Press (2) To select ±0.3, ±0.7 or ±1.0, then press ().
 - When the exposure adjustment is set to 1/2 EV steps. select from ± 0.5 , ± 1.0 and ± 1.5 . EV STEP – Setting exposure adjustment increments" (P.153)
- 3 Select the number of pictures. Press (2) (3) to select ×3 or ×5, then press ().
 - In some combinations of picture size and record mode, only ×3 is available.
 - Press () repeatedly until the menu disappears.
- 4 Take the picture.
 - · Press the shutter button fully and keep it pressed to shoot the preset number of pictures. You can stop shooting at any time to stop holding down the shutter button.





M 🔺 🛠 🕤





BKT

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Note

• Sequential shooting (**HI**, **C**, **AF**, **BKT**) is not possible in the following situations:

- When the record mode is set to TIFF
 - When NOISE REDUCTION is set to ON
 - D and AF are not available when the record mode is set to RAW.

 - Auto bracket shooting is not available in **M** mode.
 - Since the shutter speed is set to 1/30 sec. max. except in S and M mode, exposure is decreased when shooting a dark subject to prevent camera movement.
 - For auto bracketing in modes other than **S** mode, shooting is automatically set to 1/30 sec. if the shutter speed was other than 1/30 sec. for an exposure differential of 0.
 - If the battery power is low and the battery check blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.
 - In Auto bracket shooting, if available space on the card does not exceed the number of set pictures, the next picture may not be taken.

Panorama shooting

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



 In the top menu, select MODE MENU → CAMERA → FUNCTION → PANORAMA, and press (*).

Menu basics" (P.38)

• The PANORAMA mode is set.



- 2 Use the arrow pad to choose the direction in which you want the pictures connected.
 - ② : Connects the pictures from left to right.
 - G : Connects the pictures from right to left.
 - Connects the pictures from bottom to top.
 - Connects the pictures from top to bottom.





Connecting pictures from bottom to top

3 Take pictures so that the edges overlap.

- Focus, exposure and white balance are set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
- · You cannot adjust the zoom after the first picture.
- · Panorama shooting is possible for up to 10 pictures.



Keeping the area in the frame at the edge of the screen in mind, position the camera so that the same area appears in the frame for the next picture. Compose the picture so that the section that appeared at the right edge of the previous picture (or the left edge if you are connecting pictures from right to left) appears at the left edge of the next picture (or the right edge if you are connecting pictures from right to left). · When you have taken 10 pictures, a warning mark appears.



4 Press (a) to exit PANORAMA shooting.

- The frame on the screen disappears and the camera returns to the normal shooting mode.
- The PANORAMA mode is only available with Olympus CAMEDIA-brand cards.
- During PANORAMA shooting, the flash, sequential shooting (HI , D, $AF \square_I$, BKT) and program shift modes are not available.
- · Images are saved in JPEG format when PANORAMA shooting is performed in the TIFF mode. The size of the image does not change.
- PANORAMA shooting is not available when the record mode is set to RAW.
- · If the mode dial is operated during PANORAMA shooting, the camera cancels the PANORAMA mode and returns to normal shooting.
- · The camera itself cannot connect panorama pictures. The CAMEDIA Master software is necessary to connect the pictures.

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Note

Guideline shooting



This function displays a silhouette of guideline on the monitor to help you compose your pictures. Select the type of guideline best suited to your purpose.



2 Press (2) (7) to select the guidelines, then take the picture.



Horizontal position



Vertical position

3 Press (a) to exit guideline shooting.

· The guidelines on the screen disappear and the camera returns to the normal shooting mode.



· You can display the guidelines in the playback mode too. I[™] "Displaying guidelines" (P.136)



The guidelines do not appear on the resulting picture.

Shooting in black & white or sepia-tone

This setting lets you add special effects to pictures.



 In the top menu, select MODE MENU → CAMERA → FUNCTION → BLACK & WHITE or SEPIA, and press (2).

Menu basics" (P.38)





Note

• White balance, white balance compensation, hue and saturation cannot be used in black & white or sepia shooting.

FRAME ASSIST – Displaying vertical and horizontal lines to aid composition

This setting displays a vertical and horizontal lines on the monitor to help you compose your pictures.



 In the top menu, select MODE MENU → CAMERA → FRAME ASSIST → ON or OFF, and press (2).

Menu basics" (P.38)

 Press (2) again to exit the menu. The vertical and horizontal lines are displayed on the monitor.





The frame is not displayed in the following cases. During panorama or guideline shooting

Recording sound with still pictures

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



- In the top menu, select MODE MENU → CAMERA → ♥ (for still pictures) → ON, and press .
 IN "Menu basics" (P.38)
 - Press
 again to exit the menu.



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- 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.





- TIPS -----
- [J] appears on the monitor during playback of still pictures and movies with sound. During playback, sound is output from the speaker. The volume can be adjusted. IS "VOLUME Adjusting the playback volume" (P.165)
- Sound can be added later to still pictures. Recorded sound can also be changed. In "Recording sound" (P.137)



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

Recording sound with movies

Sound can be recorded while shooting a movie.



Note

1 In the top menu, press to select $\underbrace{\Psi}$ (movie).

- **2** Press O to select ON, then press B.
- **3** Recording starts at the same time as shooting.
 - When I is set to ON, the focus and optical zoom are locked during movie recording. If I is set to OFF, you can use both the optical zoom and digital zoom during movie recording.
 - If the camera is more than 1 m (3.3 ft.) away from the source of the sound, sound may not be recorded clearly.





6 Adjusting the image quality and exposure

Record mode

You can select a record mode in which to take pictures or shoot movies. Choose the best record mode for your purpose (printing, editing on a PC, website editing, etc.). For resolutions and file sizes in the different record modes, refer to the table on P.104.

Normal image mode

Image becomes clearer Compression Un-Low High Application Resolution compressed compression compression 3264 × 2448 SHQ HQ **Number of pixels increase** 2592 × 1944 SQ1 SQ1 2288 × 1712 HIGH NORMAL Select for the print 2048 × 1536 size TIFF 1600 × 1200 1280 × 960 SQ2 SQ2 1024 × 768 HIGH NORMAL For small sized prints 640 × 480 and website

Resolution

The number of pixels (horizontal × vertical) used when saving an image. If the image will be printed, higher resolutions (larger numbers) are recommended so that the image will be clearer. However, higher resolutions make the file size (amount of data) larger, so the number of pictures that can be saved will be fewer.

Compression

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

Resolution and picture size on a computer screen

When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken in 1024×768 resolution is the same size as the screen if you set the picture to 1× when the monitor setting is 1024×768 . However, if the monitor setting is over 1024×768 (such as 1280×1024), the picture only takes up part of the screen.

Record mode	Features	Resolution
RAW	As the name suggests, the data is "raw", not having been subjected to image processing.	3264 × 2448
3:2 (TIFF, SHQ, HQ)	This mode is useful when having prints made at a photo lab.	3264 × 2176

Special image mode

RAW Data

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

Pictures taken in the RAW data format can be edited on this camera.

3:2 Resolution

The image aspect ratio is normally 4:3. If the aspect ratio is changed to 322, the image can be printed at a photo lab without losing the image borders. 322 is not available in Ω mode.

Check the shooting range on the monitor before taking the picture.



Monitor indications when 3:2 is set

Record modes and the number of storable still pictures

The number of storable still pictures can be estimated by dividing the capacity of the card by the file size. When a card is inserted in the camera, it is displayed in the viewfinder or on the monitor.

The file size and the remaining recording time in the following table are the estimated numerical value.



Still Picture Record Modes

Number of storable still pictures

Record mode	Resolution		Compression	File format	File size (MB)	
					With sound	Without sound
RAW	33	264 × 2448	Uncompressed	ORF	11.5	11.4
TIFF	3264 × 2448		Uncompressed	TIFF	22.9	22.9
	3:2 3264 × 2176				20.3	20.3
	2592 × 1944				14.4	14.4
	2288 × 1712				11.2	11.2
	2048 × 1536				9.0	9.0
	1600 × 1200				5.5	5.5
	1280 × 960				3.5	3.5
	1024 × 768				2.3	2.3
	640 × 480				0.9	0.9
SHQ	33	264 × 2448	Low		3.9	3.8
SHQ	3:2 3	3:2 3264 × 2176			3.4	3.4
	3264 × 2448		High		2.0	1.7
HQ	3:2 3264 × 2176		compression		1.7	1.2
	2592 × 1944	HIGH			3.6	3.6
	2592 * 1944	NORMAL			1.2	1.2
SQ1	2288 × 1712	HIGH			2.8	2.8
301	2200 ^ 1712	NORMAL		JPEG	1.0	0.9
	2048 × 1536	HIGH			2.3	2.2
	2048 × 1550	NORMAL			0.8	0.8
	1600 × 1200	HIGH	*		1.4	1.4
SQ2	1000 × 1200	NORMAL			0.5	0.5
	1280 × 960	HIGH]		0.9	0.9
		NORMAL]		0.3	0.3
	1024 × 768	HIGH]		0.6	0.6
		NORMAL]		0.2	0.2
	640 × 480	HIGH			0.3	0.2
	040 * 460	NORMAL			0.1	0.1

*HIGH uses low compression/NORMAL uses high compression

Movie Record Modes

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

- The number of storable still pictures that can be taken may change according to the subject or factors such as 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.
 - In some cases, the larger the capacity of the card, the greater the difference between the calculated number of pictures and the actual number of pictures.
 - If movies are shot with VIDEO OUT set to PAL and the AV cable connected, the movie recording time will differ from the time listed in the Movie Record Modes table.

Selecting a record mode



SELECT♦
SET
GO
OK
When SQ1 is selected

JPEG duplicate setting

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

1 Turn the control dial while holding down **€**:- to select RAW.



- 2 While holding down **∢**∺, press **(**).
- 3 Press (ﷺ) to select OFF, SHQ, HQ, SQ1 or SQ2, then press (∰).

ISO – Set-up appropriate sensitivity

The higher the ISO settings, 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.
- 50 to 400 With a lower ISO setting, you can shoot clear, sharp images in daylight. With a higher ISO setting, you can use faster shutter speeds with the same amount of light. The available ISO settings vary depending on the EV step setting. ISO "EV STEP Setting exposure adjustment increments" (P.153)



1 In the top menu, select MODE MENU \rightarrow CAMERA \rightarrow ISO and press \Diamond .

Menu basics" (P.38)

 If ISO is displayed on the top menu as a shortcut menu, press the arrow pad in the same direction as the arrow shown next to ISO.
 "SHORT CUT" (P.157)



Mode dial

Note

- 1 In the top menu, press () to select ISO.
- 2 Press ☺☺ to choose the most suitable ISO value, then press ☺.
 - AUTO is not available in A, S or M mode.
 - - · Higher ISO settings produce more electrical noise.
 - When ISO sensitivity 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 sensitivity 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 compensation

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 in the viewfinder or on the monitor.

M X 🗹 🔺 🛠 🔊 Mode dial Ρ S Δ 1 Turn the control dial while holding down 1/2. Control dial Exposure · Adjust toward + Turn to the right to adjust up compensation button to +2.0.

Adjust toward –

TIPS

- Turn to the left to adjust up to -2.0.
- The exposure compensation can be set in 1/3EV steps or 1/2EV steps. I STEP - Setting exposure adjustment increments" (P.153)



- · Often bright subjects (such as snow) will turn out darker than their natural colors. Adjusting toward + makes these subjects closer to their real shades. For the same reason, adjust toward – when shooting dark subjects.
- Pressing when histogram is set to oN displays the histogram in the viewfinder or on the monitor.
- If you press () while pressing 2, the menu for changing the histogram setting is displayed. ■ "Histogram – Displaying the luminance distribution of still pictures" (P.119)



- You can change the position of the histogram target mark. Changing the position of the histogram target mark" (P.120)
- You can set the aperture by turning the control dial while holding down 🔁 in M mode. I "Manual shooting" (P.72)
- 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.



¢

Note

White balance

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.



 Turn the control dial while holding down WB, then select the best white balance (AUTO, PRESET1, PRESET2, CUSTOM, □) for the shooting conditions.



WB

Control dial



2 If you selected PRESET1, PRESET2, CUSTOM or □, press (*) while holding down WB to display the next selection screen.

PRESET1	Preset1 white balance" (P.110)
PRESET2	Preset2 white balance" (P.110)
CUSTOM	Custom white balance" (P.111)
	Concernation white balance" (P.111)

Auto white balance

Automatically adjusts the white balance for any light source.

Press (a) while holding down WB to display the menu for adjusting and storing the auto white balance.
 Car "White balance compensation" (P.112)
 Car "Saving a custom white balance" (P.113)



Preset1 white balance

Select a white balance setting according to the type of light when shooting outdoors.

- 1 Press (☎) ⑦ to select PRESET1, then press (₽).
- 2 Press இ to select 介⊾, ⇔, ☆ or ≚, then press இ.

 - ☆ For shooting in the shade
 - Sor shooting on a cloudy day
 - See For shooting on a sunny day
 - 些 For shooting in evening sunlight

Preset2 white balance

Select a white balance setting according to the type of light when shooting indoors.

- 1 Press ເລເອ to select PRESET2, then press ().



- For shooting under a daylight fluorescent lamp (6,700K)*. This type of lamp is used mainly in homes.
- For shooting under a neutral white fluorescent lamp (5,000K)*. This type of lamp is generally used in desk lamps, etc.
- For shooting under a cool white fluorescent lamp (4,200K)*. This type of lamp is generally used in offices, etc.
- **For shooting under a white fluorescent lamp (3,500K)*.**
- -셨- For shooting under a tungsten light (3,000K)*.
- * The color temperature values (K) are approximate. They are not an accurate indication of color.

PRESET1	
	<u> </u>
SELECT 🕈 🕀 GO 🕈 OK	

Custom white balance

Storing the white balance and white balance compensation settings lets you reactivate the settings for use later on. I variable settings a custom white balance" (P.113)

1 Press (a) (5) to select CUSTOM 1, CUSTOM 2, CUSTOM 3 or CUSTOM 4, then press (2).

- Custom1 is set to sunny day light condition.
- If no custom white balance has been saved, this item cannot be selected.

One-touch white balance

This function is useful when you need more precise white balance than PRESET WB can provide. To set the optimum white balance for the shooting conditions, point the camera at a white object under the light source you want to use and adjust the white balance.

Press (a) (b) to select GO, then press (b).
Display the (b) screen and point the camera at a sheet of white paper.
Position the paper so that it fills the screen, making sure there are no shadows.
Press (b).
The new white balance is set.
The new white balance is set.
One-touch white balance

6





1

When setting the white balance by pointing the camera at a sheet of white paper, the correct setting may not be obtained if the light reflected by the Note paper is too bright or too dark.

- White balance may not be effective under some special light sources.
- After setting a white balance other than AUTO, play back the picture and check the colors on the monitor.
- When the flash is fired with a white balance setting other than AUTO, colors may appear different in the resulting picture from the colors you see on the monitor.

White balance compensation



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



• After saving the adjustment, press (a) again to exit the menu.

Saving a custom white balance

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



- 4 Press (∞) (∞) to select CUSTOM 1, CUSTOM 2, CUSTOM 3 or CUSTOM 4, then press (∞).
 - The current white balance setting and white balance adjustment value are saved as a custom white balance.
 - If a custom white balance is already saved in the selected number, a confirmation screen appears. To register the new settings, select RESET and press (a).

6

SHARPNESS

This function adjusts the sharpness of the image.



In the top menu, select MODE MENU \rightarrow 1 PICTURE \rightarrow SHARPNESS, and press $\hat{\mathbb{P}}$.

Menu basics" (P.38)



2 Press (2) (2) to adjust the sharpness between +5 and -5.

 To increase the sharpness (+) : Press (2). The image contours are emphasized, making the image appear sharper and more vivid. Use this setting when you want to print pictures.



- To reduce the sharpness (–) : Press ☺. The image contours are softened. Use this setting when you want to edit images on a PC.
- When you have finished setting the sharpness, press (1). Press (1) again to exit the menu.

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

Note

Adjusting the image quality and exposure

CONTRAST





1 In the top menu, select MODE MENU \rightarrow PICTURE \rightarrow CONTRAST, and press \mathfrak{D} .

IS "Menu basics" (P.38)



(C

2 Press (☎) ⑦ to adjust the contrast between +5 and -5.

- To increase the contrast (+): Press ②. The light and dark areas are defined more clearly, making the image look crisper.
- To reduce the contrast (–): Press ③. 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 (2). Press (2) again to exit the menu.



6

HUE

This function adjusts the tint of the whole picture. The hue can be adjusted between +5 and -5.



1 In the top menu, select MODE MENU \rightarrow PICTURE \rightarrow HUE, and press $\widehat{\mathbb{P}}$. IS "Menu basics" (P.38)

Arrow pad OK button

HUE

±0

RGB

- 2 Press (2) To adjust the hue between +5 and -5.
 - To increase the hue (+): Press . Based on the blue of the sky, the picture takes on a greener hue.
 - To reduce the hue (-): Press ②. Based on the blue of the sky, the pictures takes on a purpler hue.
 - When you have finished setting the hue, press (1). Press (1) again to exit the menu.



SATURATION

This function adjusts the color depth.



In the top menu, select MODE MENU \rightarrow 1 PICTURE \rightarrow SATURATION, and press $\widehat{\mathbb{P}}$.

Menu basics" (P.38)



2 Press (2) (2) to adjust the saturation between +5 and -5.

- To increase the saturation (+) : Press ②. Colors become darker and more intense.
- To reduce the saturation (–) : Press (2). Colors become lighter.
- When you have finished setting the saturation, press (). Press () again to exit the menu

SCENE MODES

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

M M P Mode dial Ρ Α S

- 1 In the top menu, select MODE MENU \rightarrow PICTURE \rightarrow SCENE MODES, then choose from \rightarrow NORMAL, \bigcirc , \blacksquare or \checkmark , and press B. Menu basics" (P.38)
 - For 🕄, 🖾 and 🔊 modes, see "Situation-related modes" (P.49).
 - Press () again to exit the menu.







NOISE REDUCTION

NR

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.



1 In the top menu, select MODE MENU \rightarrow CAMERA \rightarrow NOISE REDUCTION \rightarrow ON or OFF, and press (2).

IS "Menu basics" (P.38)



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

1

Histogram – Displaying the luminance distribution of still pictures

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

Checking the histogram during shooting enables precise exposure control.

OFF	The histogram is not displayed.
∄ ON	The histogram is displayed when 🔀 is pressed.
	 "Exposure compensation" (P.108) The histogram is always displayed. The black and white areas are displayed directly on the image.

Ex. When ON is selected in **P** mode When the image is bright

When the image is dark



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

Ex. When DIRECT is selected in \mathbf{P} mode



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

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



1 Press 🖺 while holding down 🛃.



2 Press இ to choose the histogram display mode, then press இ.

 In M mode, when histogram is not set to OFF, the subject is displayed in the viewfinder or on the monitor at the appropriate brightness for the selected exposure.



• The histogram or the direct is not displayed in the following situations even if is set to ON or DIRECT.

During panorama shooting or during multi-metering

- You can turn the histogram display on and off during exposure compensation. I Texposure compensation" (P.108)
- The histogram displayed during shooting may differ from that displayed during playback.
- · The histogram is not displayed in movie mode.

Changing the position of the histogram target mark

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

To restore the histogram target mark to its original position, press (*) while holding down 2.



7 Playback

Viewing still pictures

Playback

Mode dial

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

Turning the power on/off" (P.25)

- The last picture taken is displayed. (Single-frame playback)
- Shooting information is displayed for about 3 seconds. You can change how much information is displayed on the screen.
 "INFO – Displaying shooting

information" (P.135)

• For details of the information displayed, see "Viewfinder and monitor indications" (P.11).

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

Jumps to the picture 10 frames back.



Jumps to the picture 10 frames ahead.

Control dial

Displays the previous picture. Displays the next picture.



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







QUICK VIEW

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

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



- 1 Press the QUICK VIEW button in the shooting mode.
 - The camera immediately enters the playback mode and displays the last picture taken. (Single-frame playback)



- 2 Press the QUICK VIEW button again to return to the shooting mode.
 - A light press of the shutter button will also return the camera to shooting mode.

Picture rotation

Mode dial

1

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.



In the single-frame playback mode, press 🖆.



Rotation button





The following pictures cannot be rotated.

Movies, protected pictures, pictures that have been edited on a PC and pictures taken with another camera

• New picture orientations are saved even when the power is turned off.



Close-up playback



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



1 Select the still picture you want to enlarge.

You cannot enlarge pictures with ₽.

2 Turn the zoom lever toward T (Q).

- The picture is enlarged in steps each time the lever is turned.
- By using the arrow pad while the enlarged picture is displayed, you can shift the picture in the desired direction, enabling you to view a different portion.



- Turning the control dial allows you to view the next or previous frame in the same magnification.
- To return the picture to the original size (1x), turn the zoom lever toward W.



The left side of the picture is displayed.

Pictures cannot be stored in an enlarged state.

Note

Index display

This function lets you show several pictures at the same time on the monitor. The number of pictures shown can be 4, 9 or 16. Selecting the number of pictures" (P.126)



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

- Use the arrow pad to select the picture.
 - ③ : Moves to the previous frame.
 - Solution : Moves to the next frame.
 - Moves to the upper frame.
 - I Moves to the lower frame.



Zoom lever

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







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

Selecting the number of pictures

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



1 In the top menu, select MODE MENU \rightarrow $A \rightarrow \blacksquare \rightarrow 4$, 9 or 16, and press B. Menu basics" (P.38)

• Press
again to exit the menu.



- TIPS
- Pictures can also be displayed in index format using the 12 tab in SET UP mode.



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



1 Select a still picture, then press (*) to display the top menu.

- 2 Press (a) to start the slideshow.
- **3** Press (a) to stop the slideshow.
 - The slideshow will not stop until you cancel it by pressing (2).









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

Viewing movies



This function lets you play back movies. You can fast forward the movie, play it back one frame at a time or save selected frames as still pictures (capture, SHQ only).



1 Use the arrow pad or control dial to display the picture with \mathfrak{P} you want to play back. [™] "Viewing still pictures" (P.121)

Control dial

7 Playback

2 Press (*).

· The top menu is displayed.

3 Press (a) to select MOVIE PLAY.

4 Press ∞ ∞ to select MOVIE PLAYBACK, then press ().

· The movie is played back. When playback ends, the display automatically returns to the beginning of the movie.

The following operations can be performed during movie playback.

appears on movies that have sound recorded. Pressing Its you adjust the sound volume during playback.

- Increases the volume.
- Reduces the volume
- : Plays the movie at double the normal speed. Holding the button down increases the speed to 20 times the normal speed.
- (: Plays the movie in reverse at double the normal speed. Holding the button down increases the speed to 20 times the normal speed.
- (iii) : Pauses playback and displays the MOVIE PLAYBACK menu.









Plaving time/Total recording time

128

5 Press ().

EXIT

- · The MOVIE PLAYBACK menu is displayed.
 - PLAYBACK Plays back the entire movie again.
 - FRAME BY FRAME Plays back the movie manually one frame at a time.
 - CAPTURE Cuts one frame from the movie and saves it as a still picture. If the movie is recorded in the



record mode other than SHQ, this cannot be selected. Leaves the movie playback mode.

6 Press (2) To select PLAYBACK, FRAME BY FRAME, CAPTURE or EXIT, then press ().

If you selected FRAME BY FRAME

- I Displays the first frame of the movie.
- I Displays the last frame of the movie.
- Ø : Displays the next frame. The movie can be played continuously by holding the button down.
- **(1)** : Displays the previous frame. The movie can be played continuously in reverse by holding the button down.



OVIE PLAYBAC

CAPTURE

GO+ OK

SELECT + 🕀

I Displays the MOVIE PLAYBACK menu.

If you selected CAPTURE

- ① Play back the movie one frame at a time until the frame you want to save as a still picture is displayed.
- ② Press (*).
- In Press I to select CAPTURE, then press 🐒.
- ④ Press (2) (2) to select the card, then press (*).
 - · If only one card is inserted, skip this step.
 - When there is insufficient card memory, the display returns to the MOVIE PLAYBACK menu.
- S Press S to select OK, then press S.
 - A still picture is created from the extracted movie frame and the display returns to the MOVIE PLAYBACK menu.



TIPS

 Movies can also be played back in the shooting mode using QUICK VIEW. CONTRACTION (122)



1

 The still picture created in CAPTURE is SQ2 (640 × 480 pixels). This picture may be grainier than still pictures of the same size. Note

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

Editing movies

This function lets you create indexes from as well as edit movies. However, you cannot edit movies longer than approximately 56 seconds in SHQ mode, 150 seconds in HQ mode and 600 seconds in SQ mode.

- INDEX 9 frames extracted from a movie are displayed as an index to show the movie at a glance. Indexes can be stored on the card as still pictures.
- EDIT This function lets you cut the parts of the movie that you want and edit.



1 Use the arrow pad to select a picture with \mathfrak{P} .



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

Menu basics" (P.38)

Select "INDEX"	🕼 P.131
Select "EDIT"	©©P.132



Creating an index

3 Press ☺☺ to select INDEX, then press ☺

- 4 Select the first frame of the index with the arrow pad and press (*).
 - I Jumps to the first frame of the movie.
 - I Jumps to the last frame of the movie.
 - E) : Displays the next frame. The movie can be played continuously by holding the button down.
 - I Displays the previous frame. The movie can be played continuously in reverse by holding the button down.
- 5 As in Step 4, select the last frame of the index with the arrow pad and press (*).
- 6 Press (a) (c) to select the card, then press (a).
 - · If only one card is inserted, skip this step.
 - When there is insufficient card memory, the display returns to the setting screen.

7 Press O to select OK, then press B.

- The camera returns to the playback mode, then the 9 frames extracted from the movie appear as an index display. The index is stored as a new picture.
- To quit the index function, select CANCEL and press (2).

TIPS

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

Record mode when the movie was shot	Record mode when stored as an index
SHQ	SQ1 (2048 × 1536 pixels: HIGH)
HQ	SQ2 (1024 × 768 pixels: HIGH)
SQ	SQ2 (640 × 480 pixels: HIGH)





Editing movies





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

Editing a movie

3 Press (△) (☉) to select EDIT, then press (◎).



₩ + 070

4 Select the first frame of the part you want to keep with the arrow pad and press (*).

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

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



OK+OK

6 Press 👁 🗇 to select the card, then press 🏐.

- · If only one card is inserted, skip this step.
- When there is insufficient card memory, the display returns to the setting screen.
- 7 Press (∞) (☉) to select NEW FILE or OVERWRITE, then press (≝).
 - **NEW FILE** Stores the edited movie as a new movie.

OVERWRITE Stores the edited movie with the same name as the original. The original movie is erased.

• If the card selected in Step 6 is different from the card on which the original movie is stored, skip this step.



7

GO+ OK

EDIT

ОК

SELECT 🔶 🖨

8 Press 👁 🗇 to select OK, then press 🖺.

1

- · If you want to select different frames, select RESET and press () and repeat the procedure from Step 4.
- · To quit the editing function, select CANCEL and press ().
- · The edited movie is stored and the screen returns to the playback mode.



· You cannot select NEW FILE if there is insufficient memory space on the card.

Playback on 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.



 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.



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

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

3 Set the mode dial to **▶** and turn the camera on.

- The last picture taken is displayed on the TV. Use the arrow pad to select the picture you want to display.
- The close-up playback, index display, slideshow and other playback functions can also be used on a TV screen.



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 the TV's video signal type.

IS "VIDEO OUT – Setting the video signal type" (P.174)

- The camera's monitor and viewfinder turn off automatically when the AV cable is connected to the camera.
- Be sure to use the AV cable provided to connect the camera to the TV.
- The picture may appear off-center on the TV screen.
- When pictures are compressed in order to fit the entire picture on the TV screen, a black frame may appear around the picture. If the picture is output to a video printer via the TV, the black frame may be printed.

INFO – Displaying shooting information INFO

This function lets you display shooting information or a histogram in the singleframe playback mode.

OFF Displays the only basic informations, such as the record mode, date and time, and number of frames.

ON Displays detailed shooting information on the monitor for 3 seconds. For details of the information displayed, see "Viewfinder and monitor indications" (P.11).

Histogram Displays a histogram showing the brightness and contrast of still pictures. For more details, see "Histogram – Displaying the luminance distribution of still pictures" (P.119).



1 Press INFO repeatedly.

• Each time you press **INFO**, the information displayed changes as follows.





- If the picture has been taken with a different camera, not all the information may be displayed when INFO is set to ON.
- The file number used to specify an image when making non-DPOF print at a print shop is displayed when INFO is set to ON.
 "How to print pictures" (P.176)
 - The histogram displayed during shooting may differ from that displayed during playback.
 - The histogram is not displayed in movie.
 - It may not be possible to display a histogram for pictures taken with another camera.

INFO Information display button

Displaying guidelines



This function lets you display guidelines on the monitor during single-frame playback.



- In the top menu, press ∅.
 - The guidelines are displayed.



2 Press (2) To select the type of guidelines.

- When the guidelines are displayed, use $\widehat{\otimes}\widehat{\otimes}$ or the control dial to display the picture you want to see.



Horizontal position



Vertical position

3 Press (a) to remove the guidelines.

 The guidelines on the screen disappear and the camera returns to normal single-frame playback.



The guidelines are not displayed during close-up playback or during an index display.

Recording sound

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



1 Select the still picture to which you want to add sound, then press (*) to display the top menu.



Arrow pad OK button

2 Press 🖾 to display START.

Note

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



- If the microphone is placed farther than 1m (3.3ft) away from the subject, the recorded sound quality may not be satisfying.
- If you re-record the sound, the original sound is erased.
- You may not be able to record sound when there is insufficient card memory (the CARD FULL message is displayed).
- Sound recording may pick up camera noises, such as button operation or shutter movement.
- Once sound is added to a picture, it is not possible to erase only the sound. In this case, make a re-recording with silence.

7 Playback

Editing still pictures

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

Resizing 🍡

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

Trimming RAW DATA EDIT

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



1 In the top menu, select MODE MENU \rightarrow EDIT, then choose each item.

Menu basics" (P.38)

Select 🖳	🚱 P.138	
Select 卢	🚱 P.139	
Select RAW DATA EDIT 🞼 P.140		
When selecting RAW DATA EDIT, display the image recorded in RAW mode first.		



Resizing

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



Ы

7

Playback

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

Trimming

Note

- **3** Turn the control dial to select the still picture you want to edit, then press (*).
- 4 Press to select \dashv , then press .
- 5 Use the arrow pad, zoom lever and control dial to decide the trimming position and size.
 - Press ③⑤⑤ to select the trimming frame, and turn the zoom lever toward W or T to decide the trimming size.
 - Use the control dial to select the height and width of the trimming frame.
 - 3:2 trimming size can be selected when the size of the selected picture is 3264 × 2448 or 3264 × 2176.

6 Press 🖺.

• The trimmed picture is displayed for one second.

7 Press a b to select the card, then press b.

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

8 Press O to select OK, then press B.

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





 Σ

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

RAW editing

Note

- 2 Select RAW DATA EDIT, then press 🖗.
- 3 Turn the control dial to select the still picture you want to edit, then press (*).
 - You can only select an image recorded in RAW mode.
- 4 Press ☞ ☞ to select the item you want to set, then press .
- 5 Press (ﷺ) 5 Press (♣) 5 b select the desired setting, then press (∰).
- 6 When all the necessary items have been set, press (*).
- 7 Press (2) (2) to select the card, then press (2).
 - · If only one card is inserted, skip this step.
 - · When there is insufficient card memory, the display returns to the setting screen.
- 8 Press to select OK, then press
 - The **BUSY** bar is displayed during RAW editing. After the image is saved, the camera returns to Step 3.

Items that can be set by RAW editing

Item	Settings	Ref. page
4	TIFF, SHQ, HQ, SQ1, SQ2	P.102
	±5	P.108
WB	AUTO, PRESET1, PRESET2, CUSTOM*, 🖵*	P.109
WBŻ	RED 7 to BLUE 7	P.112
SCENE MODES	NORMAL, 🛃, 🏊, 🔊	P.117
SHARPNESS	±5	P.114
CONTRAST	±5	P.115
HUE	±5	P.116
SATURATION	±5	P.117
FUNCTION	OFF, BLACK & WHITE, SEPIA	P.98
₽	—	P.139

* Can only be selected if WB was set to CUSTOM or 🖵 during shooting.





Copying pictures

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

The selected card is the copying source. You can change the copying source by pressing the card button. \mathbb{R} "Switching cards" (P.23)



Copies all the pictures on the card. Copies only the selected picture.



1 If you selected a still picture, in the top menu, select MODE MENU \rightarrow EDIT \rightarrow COPY, and press D.

If you selected a movie, in the top menu, press 3 to select COPY.

Menu basics" (P.38)

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



2 Press ﷺ to select ALL or SELECT, then press .

●If you choose ALL

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

• The pictures are copied and the menu is exited.

●If you choose SELECT

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

- The picture is copied.
- If you want to copy more pictures, repeat the procedure.
- To finish copying, press ③. Press ③ repeatedly until the menu disappears.



Playback

Pictures cannot be copied to the same card.



 Files with a volume of 57 MB or over (movies of over approximately 64 seconds in SHQ mode, 70 seconds in HQ mode or 685 seconds in SQ mode) cannot be copied. If you try to copy such files, the message "FILE SIZE SELECTED TOO LARGE" will be displayed.

Protecting pictures

Оп

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







Displayed when a picture is protected.



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

Erasing pictures

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



- 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.
 IST "Protecting pictures" (P.142)

Single-frame erase



Control dial



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

I[™] "Viewing still pictures" (P.121)



- 2 Press **☆**.
 - The $\stackrel{\mbox{\tiny Ω}}{\cong}$ ERASE screen is displayed.
- **3** Press O to select YES, then press B.
 - The picture is erased and the menu is closed.


All-frame erase

This function erases all the pictures on the card.



1 In the top menu, select MODE MENU \rightarrow CARD \rightarrow CARD SETUP, and press \mathfrak{D} .

Menu basics" (P.38)

2 Press (☞) to select (☆) ALL ERASE, then press ().

3 Press (a) (☉) to select YES, then press (≝).

• All the pictures are erased.

Playback



8 Customizing the camera ALL RESET – Saving the camera's settings

This function lets you keep the current camera settings when you turn off the power. The same settings are then reactivated next time you turn the camera on. The settings affected by All Reset are listed on the next page.

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

- **ON** All settings are returned to the factory default settings after the power is turned off.
 - Ex. If the record mode is changed to SQ1 and All Reset is set to ON, the record mode will return to HQ (factory default setting) next time the camera is turned on.
- **OFF** The settings made before the power is turned off are saved and are activated again next time the camera is turned on.





- My Mode settings and functions on the SETUP tab (ALL RESET, ♥√三, •)), etc.) are not returned to the factory default settings even when All Reset is set to ON.
- When ALL RESET is set to OFF, it may take time to start up when the power is turned on.

• Functions that All Reset affects

Function	Factory default setting	Ref. page	Function	Factory default setting	Ref. page
FNo	F2.4	P.70	AF MODE	iESP	P.74
SHUTTER	1/1000	P.71	P-AF	ON	P.76
Program Shift	Reset	P.46	(still pictures)	OFF	P.100
Z	0.0	P.108		ON	P.101
FLASH	AUTO	P.59	FUNCTION	OFF	P.95, 97, 98
5 7	0.0	P.64	⊕	OFF	P.99
AF/🖏/MF	AF	P.79, 87, 88	adh.	OFF	P.119
	ESP	P.81	4 :	HQ	P.102
ి/ీ	OFF	P.89, 90	WB	AUTO	P.109
LCD/EVF	LCD (ON)	P.50	WB½	No compensation	P.112
CARD	хD	P.23	SCENE MODES	NORMAL	P.117
Optical zoom	wide	P.57	SHARPNESS	±0	P.114
		P.92	CONTRAST	±0	P.115
ВКТ	±1.0, 3 pictures	P.93	HUE	±0	P.116
ISO	AUTO	P.107	SATURATION	±0	P.117
MY MODE	MY MODE 1	P.73	JPEG DUPLICATE SETTING	OFF	P.106
■ FLASH	IN+³∎	P.66	TIFF, SHQ, HQ	3264 × 2448	P.105
SLAVE	1	P.69	SQ1	2048 × 1536 NORMAL	P.105
\$SLOW	\$SLOW1	P.63	SQ2	640 × 480 NORMAL	P.105
NOISE REDUCTION	OFF	P.118	INFO	OFF	P.135
DIGITAL ZOOM	OFF	P.58		640 × 480	P.138
FULLTIME AF	OFF	P.75			

REC VIEW – Checking the picture immediately after shooting

You can display the picture you have just taken on the monitor while it is being recorded to the card. This is useful for making a brief check of the picture you have just taken.

OFFThe picture being recorded to the card is not displayed.
This is useful when you want to prepare for your next
shot while the previous picture is being recorded.AUTOThe picture you have just taken is displayed while it is
recorded to the card.

3 SEC, 5 SEC, 10 SEC You can select the length of time the picture is displayed. If recording is not completed in the set time, the picture is displayed until recording is finished.



In the top menu, select MODE MENU → ↑
 → REC VIEW → OFF, AUTO, 3 SEC, 5 SEC or 10 SEC, and press (a).
 Or in SET UP mode, select ↑
 A → REC VIEW → OFF, AUTO, 3 SEC, 5 SEC or 10 SEC, and press (a).
 ING "Menu basics" (P.38)

- Press
 again to exit the menu.
- In SET UP mode, set the mode dial to a different mode to exit the menu.



Setting the button operation sound BEEP

You can choose from 2 different sounds for button operations. You can also set the volume of each sound to LOW or HIGH. The factory default settings are 1 (short beep) for the sound and LOW for the volume. You can turn the sound off completely by setting OFF.



SELECT + CAR GO+ OK

- Press () again to exit the menu.
- · In SET UP mode, set the mode dial to a different mode to exit the menu.

SHUTTER SOUND – Setting the shutter sound

You can select from 2 kinds of sounds for the shutter button. You can also set the volume of each sound to LOW or HIGH. The factory default settings are 1 for the sound and LOW for the volume. You can turn the sound off completely by setting OFF.



- In the top menu, select MODE MENU → ^{*}/₁ → SHUTTER SOUND, and press [®]/₂.
 Or in SET UP mode, select ^{*}/₁ → SHUTTER SOUND, and press [®]/₂.
 ^{*}[®] ^{*}[™] Menu basics^{*} (P.38)
- 2 Select 1 or 2 and press 𝔅). Then select LOW or HIGH and press இ.
 - To turn the sound off completely, select OFF and press (a).

 - In SET UP mode, set the mode dial to a different mode to exit the menu.



DIAL – Changing the function of the control dial

You can change the function of the control dial and arrow pad in the shooting mode. Normally, to adjust the exposure compensation, you turn the control dial while holding down 2, but this feature lets you set the exposure compensation using only the control dial.

In addition, it is also possible to set the functions by using both direct buttons and the control dial with only the direct buttons.

The function of the control dial and arrow pad varies depending on the shooting mode. You can also assign functions chosen from CUSTOM 1, CUSTOM 2 and CUSTOM 3. For more details, see the table on the next page.



 In the top menu, select MODE MENU → ↑
 → DIAL → NORMAL, CUSTOM 1, CUSTOM 2 or CUSTOM 3, and press (a).
 Or in SET UP mode, select ↑
 A → DIAL → NORMAL, CUSTOM 1, CUSTOM 2 or CUSTOM 3, and press (a).

Neriu basics (F.30)

- In SET UP mode, set the mode dial to a different mode to exit the menu.



8

<u>.</u>	hooting Function					
Shooting mode	*	NORMAL CUSTOM 1 CUSTOM 2 CUSTOM				
		NURIVIAL	Exposure	Exposure	CU310M3	
Ρ		-	compensation	compensation	—	
♥ ▲		Program Shift	Program Shift	Program Shift	Program Shift	
ж П		-	_	_	Exposure compensation	
		Aperture value	Exposure compensation	Exposure compensation	_	
Α		-	Aperture value	_	Aperture value	
		-	Exposure compensation	Aperture value	Exposure compensation	
		Shutter speed	Exposure compensation	Exposure compensation	_	
S		_	Shutter speed	Shutter speed	Shutter speed	
		-	Exposure compensation	_	Exposure compensation	
		Shutter speed	_	_	_	
М		-	Shutter speed	Shutter speed	Shutter speed	
		-	Aperture value	Aperture value	Aperture value	
		_	Exposure compensation	Exposure compensation	_	
8		-	—	_	—	
		-	Exposure compensation	_	Exposure compensation	

Control dial and arrow pad functions by shooting mode

- : Turn the control dial to set.

*

- : Press 🗇 🗇 on the arrow pad to set.
- : Press 0 0 on the arrow pad to set.

Another CUSTOM 3 function

When CUSTOM 3 is selected, functions that were set by turning the control dial while holding down the direct button can be set using only the direct button. The setting can be changed by repeatedly pressing the direct button.

Ex. Changing the flash mode

Press **‡** repeatedly.

The flash mode changes each time \$\$\$ is pressed.



Precautions when using CUSTOM 3

- The exposure compensation cannot be adjusted by pressing 🔀 Flash intensity control cannot be adjusted by pressing 🔁 and 🕏 at the same time.
- When sharpness, contrast, hue or saturation are assigned to the button, the setting cannot be changed by repeatedly pressing PANORAMA and cannot be selected when FUNCTION is assigned to the button.

EV STEP – Setting exposure adjustment increments

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



In the top menu, select MODE MENU → ^{*}/₁ → EV STEP → 1/3EV or 1/2EV, and press ^(*)/₂.
 Or in SET UP mode, select ^{*}/₁ → EV STEP → 1/3EV or 1/2EV, and press ^(*)/₃.
 ^{*}/₁ ^{*}/₂ ^{*}/₂

- Press
 again to exit the menu.
- In SET UP mode, set the mode dial to a different mode to exit the menu.



Custom button



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

Functions that can be set on the custom button	Settings made by the control dial	Ref. page
ISO (default setting)	AUTO, 50 to 400	P.107
	□, HI,, □, AF,, BKT*	P.92
DIGITAL ZOOM	OFF, ON	P.58
NOISE REDUCTION	OFF, ON	P.118
FUNCTION	OFF, PANORAMA, 🛄, BLACK & WHITE, SEPIA	P.95, 97, 98
FRAME ASSIST	OFF, ON	P.99
	OFF, ON	P.100
∳ (movies)	OFF, ON	P.101
MY MODE*	™ମ୍ପ1 to ™ମ୍ପ8	P.73
	OFF, 🔀 ON, ON, DIRECT	P.119
SCENE MODES	NORMAL, 💽, 🏊, 🕑	P.117
SHARPNESS	–5 to ±0 to +5	P.114
CONTRAST	–5 to ±0 to +5	P.115
HUE	–5 to ±0 to +5	P.116
SATURATION	–5 to ±0 to +5	P.117
Z *	-2.0 to ±0 to +2.0	P.108
FLASH MODE*	AUTO, 💿, 🕏, 🎝 SLOW, 🕃	P.59
52	-2.0 to ±0 to +2.0	P.64
AF/¥/MF	AF*, ♥*, MF, _{\$} ♥*, _{\$} ♥MF	P.79, 87, 88
	ESP, 🗨, 🍽 MULTI, 🚺	P.81
ి/ీ	OFF, 🖏, 🕯*	P.89, 90
WB*	AUTO, PRESET1, PRESET2, CUSTOM, 🖵	P.109
* *	RAW, TIFF, SHQ, HQ, SQ1, SQ2	P.102

The sub-menu lets you select further options.



Custom button

Setting the custom button





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

Using the custom button



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

- ॾ is used in the same way as the direct button. "Direct button basics" (P.31)
- When an operation guide is displayed at the bottom of the screen, more specific settings can be made.
- Ex.1: When 🖳 is set to 🖆



Operation guide

X	
SHARPNESS	± 0

Ex.2: When SHARPNESS is set to 🖆

SHORT CUT

You can set three shortcut menus (A, B, C) in the top menu in a still picture shooting mode ($P/A/S/M/{\mathbb{E}}/{\mathbb{E}}/{\mathbb{E}}/{\mathbb{E}}/{\mathbb{E}}/{\mathbb{E}}$).

This is useful when you want to go quickly to frequently-used functions. Direct button function is also possible to be set to shortcut.



Top menu

Default setting A: B: ISO C: DIGITAL ZOOM

Functions that can be set in the shortcut menu	Ref. page	Functions that can be set in the shortcut menu	Ref. page
FLASH MODE	P.59		P.100
AF/₩/MF	P.79, 87, 88	MY MODE	P.73
ESP/	P.81	adlth	P.119
Ð	P.92	WB	P.109
ి/ీ	P.89, 90	(P.102
ISO	P.107	SCENE MODES	P.117
DIGITAL ZOOM	P.58	SHARPNESS	P.114
NOISE REDUCTION	P.118	CONTRAST	P.115
FUNCTION	P.95, 97, 98	HUE	P.116
FRAME ASSIST	P.99	SATURATION	P.117

Setting the shortcut menu

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





- In the top menu, select MODE MENU \rightarrow 18 1 \rightarrow SHORT CUT, and press $\widehat{\mathbb{P}}$. Or in SET UP mode, select $\mathbb{R} \rightarrow \text{SHORT}$ CUT, and press $\hat{\mathbb{D}}$. Menu basics" (P.38)
- **2** Press O to select A, B or C, then press O.
- 3 Press (2) To select the function you want to set, then press ().
 - · The shortcut menu is set.
 - Press
 again to exit the menu.
 - In SET UP mode, set the mode dial to a different mode to exit the menu



Using the shortcut menu

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



MY MODE SETUP – Setting a function in My Mode

You can set shooting-related functions in MY MODE. You can also save the current settings in MY MODE.

When the mode dial is set to \mathbb{W}_{2}^{9} , your customized settings are activated. You can save up to 8 different settings in MY MODE 1 to 8. Only MY MODE 1 has a factory default setting.

Functions affected by MY MODE SETUP

Functions that can be set in MY MODE	Default setting	Ref. page	Functions that can be set in MY MODE	Default setting	Ref. page
P/A/S/M/S-Prg	Р	P.46	WB	AUTO	P.109
FNo	F2.4	P.70	(HQ	P.102
SHUTTER	1/1000	P.71			P.92
Z	0.0	P.108	ISO	AUTO	P.107
LCD/EVF*1	LCD	P.50	DIGITAL ZOOM	OFF	P.58
ZOOM*2	28 mm	-	NOISE REDUCTION	OFF	P.118
FLASH MODE	AUTO	P.59	FUNCTION	OFF	P.95, 97, 98
<u>\$7</u>	0.0	P.64	FRAME ASSIST	OFF	P.99
FLASH	IN+³■	P.66	<pre> (still pictures) </pre>	OFF	P.100
\$SLOW	SLOW1	P.63	,ulits	OFF	P.119
AF/🖏/MF	AF	P.79, 87, 88	SCENE MODES	NORMAL	P.117
AF MODE	iESP	P.74	SHARPNESS	±0	P.114
FULLTIME AF	OFF	P.75	CONTRAST	±0	P.115
P-AF	ON	P.76	HUE	±0	P.116
ESP/	ESP	P.81	SATURATION	±0	P.117
ి/ీ	OFF	P.89, 90			

*1 Sets whether the monitor (LCD) or viewfinder (EVF) turns on when the camera is turned on.

*2 In [™] mode, available zoom positions are 28 mm, 50 mm, 85 mm, 105 mm and 140 mm. (These numbers are based on the focal length of a 35 mm camera.)



In the top menu, select MODE MENU → ↑
 → MY MODE SETUP, and press
 Or in SET UP mode, select ↑
 ▲ → MY MODE SETUP, and press
 ●.
 ■ Setup, and press
 ●.
 ■ Setup menu basics" (P.38)

2 Press to select an item, then press .

 CURRENT*
 Saves the current camera settings.

 RESET
 Restores the factory default settings.

 CUSTOM
 Saves settings one by one.

 *Cannot be selected in SET UP mode.

• The MY MODE SETUP screen appears.

3 Select a MY MODE number.

 Press (2) (5) to select a MY MODE number from 1 to 8, then press (2).

•When selecting CURRENT in Step 2

- **4** Press (△) (☉) to select SET, then press (🖺).
 - The current camera settings are saved in the selected MY MODE.









When selecting RESET in Step 2

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

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

When selecting CUSTOM in Step 2

- 4 Press ☞ ☞ to select the item you want to save in MY MODE, then press .
 - For the available items, see "Functions affected by MY MODE SETUP" (P.160).

Press (a) (c) to change the setting, then press (a).

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







5 When you have made all the settings you want, press (2).

- The screen displayed in Step 2 appears.
- In SET UP mode, set the mode dial to a different mode to exit the menu.



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

CONTROL PANEL – Using the monitor as a control panel

This option lets you display the each setting on the monitor in the shooting mode. The subject is displayed on the viewfinder.



Menu basics" (P.38)

- In SET UP mode, set the mode dial to a different mode to exit the menu.
- · The control panel is displayed on the monitor.
- Even when the control panel is displayed on the monitor, you can display the subject by pressing [D].
- Pressing the direct button displays the setting in green on the control panel. Each setting can be made on the control panel by turning the control dial.
- For more details Control panel screen" (P.164)







 The subject is displayed on the monitor when using functions that use the monitor, such as guideline shooting or panorama mode.

Control panel screen



1	Battery check
2	Shooting mode
3	Shutter speed
4	Aperture value
5	Exposure compensation
6	Noise reduction
7	AE lock/AE memory
8	Spot metering/Multi-metering Center-weighted metering
9	Focus mode, P-AF
10	Flash mode
11	Flash intensity control
12	Sequential shooting
13	Self-timer/Remote control

14	Sound record
15	Record mode/Resolution
16	Number of storable still pictures/ Recording time
17	Memory gauge
18	Exposure compensation
19	ISO
20	White balance compensation
21	White balance
22	Saturation/Sharpness/Hue/ Contrast
23	Scene modes
24	Folder number
25	Selected card

VOLUME – Adjusting the playback volume

You can adjust the volume of the sound when playing back a still picture or movie. There are 5 levels to choose from.



- In the top menu, select MODE MENU → ☆ → VOLUME, and press Ø.
 Or in SET UP mode, select → ☆ → VOLUME, and press Ø.
 IS "Menu basics" (P.38)
- 2 Press 🖘 🗇 to select the volume level, then press 🏐.

 - In SET UP mode, set the mode dial to a different mode to exit the menu.





Selecting this level will mute the sound completely.

9 Camera Settings

Formatting cards

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

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



- In the top menu, select MODE MENU → CARD → CARD SETUP, and press ^(b).
 ^(C) "Menu basics" (P.38)
 - PASM M 20 ▲ ≪ 1: The T FORMAT screen is displayed.
 - E: The CARD SETUP screen is displayed.
- 2 If the mode dial is set to P A S M M ♀ ♀ ★ ▲ ★ ♀, press ⇔ to select YES. If the mode dial is set to ►, press ♥ to select FORMAT, then press ♥. The ♥ FORMAT screen is displayed. Press ⇔ to select YES.
- 3 Press 🖺.
 - The **BUSY** bar is displayed and the card is formatted.



T





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

Selecting a language for on-screen display

This function lets you select a language for on-screen display. This reference manual shows the English on-screen display in illustrations and explanations. Available languages vary depending on the area where you purchased this camera.

SET UP Mode dial

Select SETUP → ♥ (Ξ), then press Ø.
 Image "Menu basics" (P.38)

2 Press (☞) to select a language, then press ().



Setting the date and time

The date/time is saved with recorded pictures and file names are assigned based on the date/time settings.



1 Select SETUP $\rightarrow \bigcirc$, then press \emptyset .

Menu basics" (P.38)

2 Press (a) (5) to select one of the following





• Move to the year setting.

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

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

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

date formats:

Then press 🖗.

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

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



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

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

5 Press ().

• For a more accurate setting, press (2) when the time signal hits 00 seconds.



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

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.



 Select SETUP → D)) → OFF, LOW or HIGH, and press (2).
 IS "Menu basics" (P.38)

SLEEP - Setting the time until the camera enters sleep mode

The camera automatically enters the sleep mode after being left unoperated for a preset length of time. Press the shutter button or arrow pad to cancel the sleep mode and reactivate the camera.

Mode dial SET UP

- Select SETUP → SLEEP TIMER → 30 SEC, 1 MIN, 3 MIN, 5 MIN or 10 MIN, and press ^{((*)})
 ^(*) "Menu basics" (P.38)
- Arrow pad OK button
- The camera will not enter sleep mode when powered by the AC adapter.
- Note
- In > mode, the camera will enter sleep mode and the monitor will turn off after 3 minutes of non-operation, regardless of the time set in the sleep timer.
 - In slideshow mode, the camera will enter sleep mode and the monitor will turn off after 30 minutes.
 - In shooting mode, when the powersaving mode is set to ON, the camera will enter sleep mode and the viewfinder will turn off after 10 seconds, regardless of the time set in the sleep timer.





FILE NAME – Assigning a file name

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



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

File name settings

- **RESET** The file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to No. 100 and the file number returns to No. 0001. This method is useful when grouping files on separate cards.
- AUTO Even if a new card is inserted, the folder number and file number are retained from the previous card, so the same file number is not used on different cards. This helps you to manage multiple cards. This method is useful when you want to manage all your files with sequential numbers.

Mode dial SET UP

 In the top menu, select SETUP → FILE NAME → RESET or AUTO, and press ^(®).
 ^(®) "Menu basics" (P.38)





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

BATTERY SAVE Reducing battery consumption

This function reduces battery consumption by restricting the following camera operations in the shooting mode.

- The monitor does not turn on when 回 is pressed.
- The camera automatically enters sleep mode and the viewfinder turns off after 10 seconds of non-operation.
- In P 🔁 🛦 💸 😭 mode, the fastest shutter speed automatically selected by the camera is 1/2000 sec.



1 Select SETUP \rightarrow BATTERY SAVE \rightarrow ON or OFF, and press (2).

I 🚱 "Menu basics" (P.38)

· To enable the powersaving mode, select ON.



PIXEL MAPPING – Checking the image processing functions

The Pixel Mapping feature allows the camera to check and adjust the CCD and image processing functions. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait over a minute after the monitor is used or continuous shots are taken to allow for proper performance of the Pixel Mapping function.



- Select SETUP → PIXEL MAPPING, and press Ø.
 ™Menu basics" (P.38)
 - · START appears.



- 2 Press 🖹.
 - The BUSY bar is displayed during Pixel Mapping. When Pixel Mapping is finished, the screen returns to the SET UP mode menu.



Note

 If you accidentally turn the camera off during Pixel Mapping, start again from Step 1.

Adjusting the brightness of the monitor and viewfinder

This function lets you adjust the brightness of the monitor and viewfinder. The brightness of the monitor and viewfinder can be adjusted separately.



1 Select SETUP $\rightarrow \square$, and press \emptyset .

- 2 Press (a) (b) to adjust the brightness of the monitor or viewfinder, and when you have set the desired level, press (a).

Measurement units

Mode dial

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

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



SET UP







9

Camera Settings

VIDEO OUT – Setting 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.



 Select SETUP → VIDEO OUT → NTSC or PAL, and press (2).

Menu basics" (P.38)





TIPS

TV video signal types & main regions

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

NTSC North America, Japan, Taiwan, Korea

PAL European countries, China

USB setup – Setting the connection destination

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

- PC Select when connecting the camera to a PC with the USB cable and transferring pictures to the PC. For instructions on how to connect the camera to your PC, refer to the "OPERATION MANUAL" (DIGITAL CAMERA PC CONNECTION).
- **PRINT** Select when connecting the camera to a PictBridge-compatible printer with the USB cable. Pictures can be printed directly without using a PC. IS "Connecting the camera to a printer" (P.187)



 Select SETUP → USB → PC or PRINT, and press (2).
 ISP "Menu basics" (P.38)



10 Print setting (DPOF)

How to print pictures

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

With print reservation, you can print out pictures easily either at home using a personal DPOF-compatible printer or at a photo lab or 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 the card.

Pictures with print reservation data can be printed using the following procedures.

Printing using a DPOF-compatible photo lab or 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.



1

Note

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. I record mode" (P.102)

- DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device.
- If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- If there is not enough space in the card memory, you may not be able to enter the reservation data. CARD FULL will be displayed.
- You can make DPOF print reservations for up to 999 images per card.
- Even if an image appears with the message "PICTURE ERROR", it may be possible to make print reservations. In this case, the print reservation icon (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, at all print shops, or at all photo labs.
- Some TIFF images cannot be printed.
- Print reservation may take considerable time when saving printing data to a card.
- · Print reservations cannot be made for images recorded in RAW data.

All-frame reservation

Use this feature to print all the pictures stored on the card. Select the desired number of prints and whether you want the date and time included.



1 Play back a still picture.

• You cannot make print reservations for pictures with ${\color{black} \Omega}$.



- - If print reservation data is already stored on the card, the PRINT ORDER SETTING screen appears, giving you the choice of resetting the data or keeping it.
- 3 Press ඁ ඁ ♥ to select ≝, then press .
- 4 Press ☺☺ to select L× (number of prints) or ④ (date/time), then press ^(b).
- 5 Perform each setting as illustrated.



Set the number of prints

Press O to set the desired number of prints, then press B.

- \bigcirc : Increases the number.
- I Decreases the number.

Set the date/time printing data

Press O to select NO, DATE or TIME, then press O.

NO The pictures are printed without the date and time.

DATE All the pictures are printed with the shooting date.

TIME All the pictures are printed with the shooting time.

 After completing the number of prints or the date/time printing data setting, press (a) to return to the playback screen.
Single-frame reservation

Use this feature to print only selected pictures. Display the picture to be printed and select the desired number of prints.



1 Play back a still picture.

• You cannot make print reservations for pictures with ${\bf \underline{\Omega}}$.



Control dial





Single-frame reservation menu

- - If there is a print reserved data on the card, the PRINT ORDER SETTING screen appears, giving you the choice of resetting the data or keeping it.
- **3** Press a b to select \blacksquare , then press b.
- 4 Select the frame you want to print using the arrow pad or the control dial and press (*).



5 Select the appropriate item using the arrow pad.

MORE	Sets the number of prints, date/time
	and trim size. The print reservation
	data is set and the screen proceeds
	to Step 6.
	Sata aingle frame print. The date/

SINGLE PRINT Sets single-frame print. The date/ time and trimming settings are not available. → Step 9

CANCEL Cancels the print reservation for the displayed picture. IST To reset the print reservation data for a selected picture" (P.185) END

10

Print setting (DPOF)

6 Press ☺☺ to select L× (number of prints), ☺ (date/time) or ๗ (trimming), then press ℘.

7 Perform each setting.

Set the number of prints

Press O to set the desired number of prints, then press B.

 $\textcircled{\sc op}$: Increases the number.

I Decreases the number.

Set the date/time printing data

Press O to select NO, DATE or TIME, then press O.

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

Trim the picture

🕼 "Trimming" (P.182)



- The 🖧 icon appears on the displayed picture.
- Repeat steps 4 to 8 to make print reservations for other images.
- 9 Press (*) to display the single-frame reservation menu.
- **10** Press () to select END.
 - The B PRINT ORDER screen appears.
- 11 Press () again to display the L PRINT ORDER SETTING screen, then press () once more to complete the print reservations.









Trimming

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



1 Press T on the single-frame reservation screen to select \square (trimming) and press \emptyset .

Single-frame reservation" (P.180)

- appears. Press (2) (5) to select RESET, then press 🖱.
- 2 Use the arrow pad, zoom lever, and control dial to decide the trimming position and size.
 - Press (2) (1) to select the trimming frame, and press the zoom lever toward W or T to decide the trimming size.
 - · Use the control dial to select the height and width of the trimming frame.
 - · 3:2 trimming size can be selected when the size of the selected picture is 3264 × 2448 or 3264 × 2176.

4 Press (△) (☉) to select OK, then press ([∞]).









5 Press (a) to complete the print reservations and return to the picture selection screen. Press () again.

Saves the current trimming size and returns

to the single-frame reservation screen.

Sets a new trimming size. \rightarrow Step 2 CANCEL Cancels the current trimming setting and returns to the single-frame reservation

3 Press 🕮.

OK

RESET

screen

Trimming

6 Press () to select END.

¢

Note

- The 凸 PRINT ORDER screen appears.
- Press ③ again to display the L PRINT ORDER SETTING screen, then press ③ once more to complete the print reservations.



- The size of the printed picture varies depending on the printer settings. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
 - For best results with close-up prints, you are recommended to use the TIFF, SHQ or HQ mode.
 - The original picture is not trimmed. If your printer does not have a trimming feature, the picture will be printed untrimmed.
 - Do not rotate pictures that have been trimmed, otherwise the cropped area will change.

Resetting print reservation data

This function allows you to reset the print reservation data for pictures stored on the card.

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

Resetting all print reservation data



- 1 Press 凸.
 - The 凸 PRINT ORDER SETTING screen appears.



RESET KEEP

EXIT SELECT GO OK

- 2 Press 👁 🐨 to select RESET, then press 🏐.
- **3** Press 0 to exit the menu.

To reset the print reservation data for a selected picture



- 1 Press 品.
- **2** Press (△) (☉) to select KEEP and press (⑥).
 - If there is no print reservation data stored on the card, the □ PRINT ORDER SETTING screen does not appear.



- 3 Press a b to select \blacksquare , then press b.
- 4 Select the frame for which you want to reset the print reservation data using the arrow pad or the control dial and press (*).
 - The single-frame reservation menu is displayed.
- 5 Press (5) to select CANCEL.
 - The print reservation data is canceled and the screen returns to Step 4.
- 6 If you have finished canceling print reservation data, press (*).
 - · The single-frame reservation menu is displayed.
- 7 Press () to select END.
 - Press () repeatedly to return to the playback screen.





11 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. Improvement (DPOF)" (P.176)

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

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

 \square **STANDARD** ... All printers that support PictBridge have standard print settings. Selecting \square STANDARD on the setting screens ($\blacksquare \textcircled{SP}$ P.189 to 195), images are printed according to these settings. See the instruction manual for your printer for its standard settings or inquire of the printer manufacturers.



 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.

- Images recorded in RAW data and movies cannot be printed.
- The camera will not enter sleep mode when connected to the USB cable.

Connecting the camera to a printer

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

1 Set the camera's USB mode to PRINT.

I ^C [™] USB setup – Setting the connection destination" (P.175)

- Make sure the card containing the pictures you want to print is selected.
- 2 Turn the printer on and plug the printer end of the USB cable into the printer's USB port.
 - For details of how to turn the printer on and the position of the USB port, refer to the printer's instruction manual.
- 3 Set the camera's mode dial to ► and plug the USB cable into the camera's USB connector.

4 Press the power switch to turn the camera on.

Note

 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 I Territing pictures" (P.188).



Power switch







187

Printing pictures

When the camera is connected correctly 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 screen

PRINT	Prints the selected picture.
	🕼 "PRINT/MULTI PRINT" (P.190)
ALL PRINT	Prints all the pictures stored on the card.
	🕼 "ALL PRINT" (P.193)
MULTI PRINT	Prints one picture in multiple layout format.
	🕼 "PRINT/MULTI PRINT" (P.190)
ALL INDEX	Prints an index of all the pictures stored on the card.
	#ALL INDEX mode/PRINT ORDER mode" (P.195)
PRINT ORDER	Prints the pictures according to the print reservation data on
	the card. If no print reservations (P.176) have been made,
	this option is not available.
	#ALL INDEX mode/PRINT ORDER mode" (P.195)

– PRINT modes and each setting

Available printing modes, paper sizes etc., vary depending on the printer you use. Please consult with the services of your printer's manufacture or to the printer manual.

Easy printing

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

- 1 In the PRINT MODE SELECT screen (P.188), press ☞ ♂ to select PRINT, then press ∰.
 - The PRINT PAPER screen is displayed.



- 2 Press ﷺ to select the paper size, then press .
- 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.
- 4 Press (3)(b) or turn the control dial to select the picture you want to print and press ([∞]).
 - The PRINT screen is displayed.

5 Press O to select OK, then press B.

- · Printing starts.
- To cancel printing, select CANCEL and press (*). The PRINT MODE SELECT screen is displayed.
- When printing is finished, the screen returns to Step 4. Repeat Steps 4 and 5 and print all the pictures you want to print.







PRINT/MULTI PRINT

1 In the PRINT MODE SELECT screen, press ☞ ☞ to select PRINT or MULTI PRINT, then press .

• The PRINT PAPER screen is displayed.

- 2 Press ☺☺ to select the paper size, then press .
 - PRINT mode:
 - \rightarrow Go to Step 3.
 - MULTI PRINT mode: \rightarrow 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.
- Use (a) (b) to select framed or unframed, then press (a). → Go to step 5.
 - OFF () The image is printed inside a blank
 - frame.
 - ON (
) The image is printed filling the entire page.
 - Press (2) (5) to select PICS/SHEET, then press (2).
 - PICS/SHEET depends on the paper size set in Step 2 and the capabilities of your printer.

5 Press (3) or turn the control dial to select the picture you want to print.

• Turn the zoom lever toward W to display the picture in index format. You can then select the pictures you want to print from the index.











6 Select the print reservation method.

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

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

Set a SINGLE PRINT reservation

Press 🖾.

• Press when the picture with is displayed to cancel the reservation.



Print reservation mark is

Set MORE print reservations

- Press (3).
 - · The Print information settings screen is displayed.
- Press (a) (c) to select the item you want to set, then press (b).
 - Press to select the item, then press .



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

 DATE (④)
 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.

 L
 Crops part of a recorded picture so that only the enlarged section is printed.

 L
 Trim the picture" (P.197)
- DATE and FILE NAME are not available in MULTI PRINT mode.

- ③ When you have finished all the settings for MORE, press ⁽⁽¹⁾).
 - 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.
- I is displayed in MULTI PRINT mode.
- 7 Press 🖹.
 - The PRINT screen is displayed.
- 8 Print the pictures.
 - Press ☺It is select OK or CANCEL, then press ^(B).
 - 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.
 Section 2 (P.198)









Data transfer screen



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

- The PRINT PAPER screen is displayed.
- 2 Press ﷺ 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.
- 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.
- 4 Press ☞ ☞ to select the item you want to set, then press .
 - Press ☺☺ to select the item, then press ☺.
 - If PRINT INFO cannot be set with your printer, go to Step 6.
 - · Only one print 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



PRINT INFO [×D]
x))1
DATE WITHOUT
FILE NAME
SELECT 🕂 SET 🕨 GO 🖲 OK

- 5 Press ().
 - The PRINT screen is displayed.

6 Print the pictures.

 Press (2) (2) to select OK or CANCEL, then press (2).

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.
 Section 2 (P.198)





Data transfer screen

To cancel printing

Pressing (a) during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, press (c) to select CANCEL, then press (c).



Direct printing (PictBridge)

ALL INDEX mode/PRINT ORDER mode

1 In the PRINT MODE SELECT screen, press ORDER, then press ().

- · The PRINT PAPER screen is displayed.
- 2 Press (2) (2) to select the paper size, then press 🖗.
 - · When the PRINT PAPER screen is not displayed, SIZE and BORDERLESS are set to 凸 STANDARD. \rightarrow Go to Step 4.
- **3** Use a a 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.

4 Print the pictures.

- Press I 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.198)







Data transfer screen



To cancel printing

Pressing (a) during print data transfer displays the screen for selecting whether to continue or cancel printing. To cancel printing, press (c) to select CANCEL, then press (c).



Trim the picture

To set trimming by MORE in PRINT or MULTI PRINT mode, follow the procedure below.

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

 - Use the control dial to select the height and width of the trimming frame.
 - 3:2 trimming size can be selected when the size of the selected picture is 3264 × 2448 or 3264 × 2176.
- 2 Press 🖹.
- **3** Press O to select OK, then press B.
 - **OK** Saves the current trimming size.
 - **RESET** Sets a new trimming size.

 Press (2) to complete trimming setting and return to the PRINT INFO screen.



- The size of the printed picture varies depending on the printer settings. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, you are recommended to use the TIFF, SHQ or HQ mode.



Exiting direct printing

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

- 1 In the PRINT MODE SELECT screen, press 🕅.
 - · A message is displayed.

2 Press the power switch to turn the camera off.

- 3 Remove the USB cable from the camera.
- 4 Remove the USB cable from the printer.







Power switch





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
〇天 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.
	There is a problem with the printer and/or camera.	Turn off the camera and printer. Check the printer and remedy any problems before turning the power on again.

?

- *TIPS* -----
 - If an error code other than those shown above is displayed, refer to "Error codes" (P.200).

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.	This card cannot be used. Insert a new card.
[] WRITE- PROTECT	Writing to the card is prohibited.	The recorded image has been protected (read-only) on a PC. Download the image to a PC and cancel the read-only setting.
[] CARD FULL	The card is full. No more pictures, movies or information such as print reservations can be recorded.	Replace the card or erase unwanted pictures. Before erasing, download important images to a PC.
() NO PICTURE	There are no pictures on the card.	The card contains no pictures. Record pictures.
PICTURE ERROR	There is a problem with the selected picture and it cannot be played back on this camera.	Use image processing software to view the picture on a PC. If that cannot be done, the image file is damaged.
CARD COVER OPEN	The card cover is open.	Close the card cover.
CARD SETUP (xD) POWER OFF T FORMAT SELET+ 33 GO+[OK]	The card is not formatted.	Format the card. All data on the card will be deleted.
	Files with a volume of 57 MB or over (movies of over approx. 64 sec. (SHQ), 70 sec. (HQ) or 685 sec. (SQ)) cannot be copied.	Avoid selecting movies of the type listed left for copying.

Troubleshooting

Preparatory operations

Possible cause	Corrective action	Ref. page	
The camera does no	The camera does not turn on or function buttons do not respond.		
The power is off.	Press the power switch to turn the camera on.	P.25	
The battery is exhausted.	Charge the battery.	P.17	
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.26	
The camera is connected to a PC.	The camera will not operate while it is connected to a PC.	—	

Shooting

Possible cause	Corrective action	Ref. page
No picture is taken when the shutter button is pressed.		
The battery is exhausted.	Charge the battery.	P.17
The camera is in the playback mode.	Set the mode dial to any position except > .	P.50
The flash has not finished charging.	Remove your finger from the shutter button, and wait until \$ stops blinking. Press the shutter button again.	P.50, 60
The card is full.	Erase unwanted pictures or insert a new card. Before erasing, download important images to a PC.	P.143
The battery ran out of power during shooting or while the images were being written to the card. (The battery check indicator only blinks.)	Charge the battery. (Wait until the card access lamp turns off when flashing.)	P.17
The memory gauge is full.	Wait until there is room in the memory gauge.	P.14
There is a problem with the card.	Refer to "Error codes".	P.200
The viewfinder does not turn on.		
The monitor is turned on.	Press 回 to turn the viewfinder on.	P.50

Troubleshooting

Possible cause	Corrective action	Ref. page
The monitor does no		num peigo
The viewfinder is turned on.	Press ID to turn the monitor on.	P.50
The viewfinder or m	onitor is hard to see.	
The diopter is not adjusted properly.	Adjust the diopter so that the AF target mark is clearly visible.	P.27
There is condensation [*] inside the camera.	Wait until the camera dries before turning it on again.	_
turns t Conde	it is cold outside, the water vapor in the air is rapidly to droplets of water. ensation occurs when the camera is suddenly taken f into a warm room.	
The brightness of the viewfinder or monitor is not adjusted properly.	Select I in the SETUP tab and adjust the brightness.	P.173
The monitor is exposed to direct sunlight.	Position the monitor in the down position or block the sunlight with your hand.	_
Vertical lines appear in the viewfinder or 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 v	with the image data is wrong.	
The date/time is not set.	Set the date/time. The clock adjustment is not factory-preset.	P.168
The camera has been left with the battery removed.	If the camera is left for a few days with the battery removed, the date/time setting is canceled. Set the date/time again.	P.18, 168
The settings are ret turned off.	urned to the factory default settings when the	camera is
ALL RESET is set to ON.	Set ALL RESET in the 🏦 tab to OFF.	P.145
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.87, 88
Auto focus is not possible.	Use manual focus or focus lock to focus on the subject and then shoot.	P.53, 79
The subject is dark.	Turn the AF illuminator on.	P.78
There is condensation [*] on the lens.	Wait until the camera dries before turning it on again.	

Possible cause	Corrective action	Ref. page
The monitor goes off.		
The camera is in the sleep mode.	Operate the camera (press the shutter button or the zoom lever).	P.26
The power is turned off with the monitor off.	If ALL RESET in the Y tab is set to OFF, the camera settings before the power was turned off remain unchanged. Turn on the monitor, and turn off the power.	P.50, 145
The flash does not f	îre.	
The flash is closed.	Press the flash pop-up button to make the flash pop up.	P.59
The flash is set to the flash off mode.	Select a flash mode other than ③.	P.59
The subject is illuminated.	If you want the flash to fire on a brightly illuminated subject, set the flash to 4 .	P.59
Sequential shooting (HI,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	The flash does not fire in the sequential shooting mode. Set — in the — menu.	P.92
The camera is in the movie mode.	The flash does not fire in the $\ensuremath{\mathfrak{P}}$ mode. Set a different shooting mode.	P.55
Super macro mode is set.	The flash does not fire in the super macro mode. Cancel the super macro mode.	P.88
Panorama mode is set.	The flash does not fire in the panorama mode. Cancel the panorama mode.	P.95
The battery run time is brief.		
You are using the camera in a cold environment.	Battery performance deteriorates in low temperatures. Keep the camera warm by putting it inside your coat or clothing.	—
The remaining battery power is not indicated correctly.	When battery consumption fluctuates considerably, the camera may turn off without displaying the battery warning indicator. Charge the battery.	P.14, 17

Playback

Possible cause	Corrective action	Ref. page
The picture is out of focus.		
A subject unsuited to AF was taken	Use manual focus or focus lock to focus on the subject and then shoot.	P.53, 79
The camera moved when the shutter button was pressed.	Hold the camera correctly and press the shutter button gently.	P.28
The flash was closed or was set to the flash off mode in a lighting condition requiring use of the flash.	Press the flash pop-up button to make the flash pop up and select a flash mode other than (3). Camera movement occurs easily with slower shutter speeds. Use a tripod, or set the flash to AUTO.	P.59
The lens was 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.219
The picture is too br	ight.	
The flash was set to the \$ mode.	Select a flash mode other than \$.	P.59
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.108
The ISO is at a high setting.	Set the ISO to AUTO or to a low sensitivity: 50	P.107
The aperture value is small in A (M) mode.	Increase the aperture value or set the camera to ${\bf P}$ mode.	P.70
The shutter speed setting is too slow in S (M) mode.	Increase the shutter speed or set the camera to P mode.	P.71

Possible cause	Corrective action	Ref. page	
The picture is too dark.			
The flash was blocked by your finger.	Hold the camera correctly, keeping your fingers away from the flash.	P.28	
The subject was out of the working range of the flash.	Shoot within the flash working range.	P.59	
The flash was closed or was set to the (3) mode.	Press the flash pop-up button to make the flash pop up and select a flash mode other than (3).	P.59	
The subject was too small and was backlit.	Set the flash mode to 4, or use the spot metering mode.	P.59, 81	
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 in the sequential shooting menu.	P.92	
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.108	
The aperture value setting is too high in A (M) mode.	Decrease the aperture value or set the camera to ${f P}$ mode.	P.70	
The shutter speed setting is too fast in S (M) mode.	Reduce the shutter speed or set the camera to P mode.	P.71	
The colors of picture	The colors of pictures look unnatural.		
Indoor lighting can affect the picture's colors.	Set the white balance according to the lighting.	P.109	
No white in the picture.	Include something white in the picture, or set the flash mode to \clubsuit .	P.59	
The white balance setting is wrong.	Adjust the white balance according to the light source.	P.109	
Filter was used.	The image may be discolored according to the filter used. Use the one-touch white balance function.	P.111	
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.28	

Possible cause	Corrective action	Ref. page
Halation produces unnatural colors in the picture.		
This may be caused by excessively bright ultraviolet light on the subject, such as sunlight shining through the leaves of trees, window frames in bright light at night, reflection of metal in direct sunlight, etc.	 Use a UV filter. As this may upset the overall color balance, it should only be used in the conditions described on the left. 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. 	_
Pictures you have ta	aken do not appear on the monitor.	
The power is off.	Set the mode dial to 🕨 before pressing the power switch to turn the camera on.	P.121
The camera is in the shooting mode.	Press the QUICK VIEW button or set the mode dial to .	P.121, 122
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.200
The camera is connected to a TV.	The monitor does not function when the AV cable is connected to the camera.	P.134
Single-frame erase	and all-frame erase cannot be performed.	
The pictures are protected.	Display pictures with On and press On button to cancel protection.	P.142
No picture is display	ved 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.174
The TV video signal setting is incorrect.	Set the TV to the video input mode.	P.134
The viewfinder or monitor is hard to see.		
The brightness of the viewfinder or monitor is not adjusted properly.	Select I in the SETUP tab and adjust the brightness.	P.173
The monitor is exposed to direct sunlight.	Position the monitor in the down position or block the sunlight with your hand.	_
Illustrations and exp	lanations are not displayed in English.	
A language other than English has been selected for on- screen display.	Select English for on-screen display.	P.167

Connection to a PC or Printer

Possible cause	Corrective action	Ref. page			
The camera is not re	ecognized by the PC.				
The USB driver is not installed.	It is necessary to install the USB driver for Windows 98/98SE. For installation instructions, see "OPERATION MANUAL" (Digital camera – PC connection) on the CD-ROM.	_			
The camera has not been turned on.	Press the power switch to turn the camera on.	P.25			
The printer is selected as the connection destination.	Set the USB option in the SETUP tab to PC.	P.175			
The camera cannot	The camera cannot be connected to the printer.				
PC is selected as the connection destination.	Set the USB option in the SETUP tab to 凸.	P.175			
The camera or printer has not been turned on.	Turn the camera or printer on.	P.187			
The printer does not support PictBridge.	Refer to the printer's instruction manual or contact the manufacturer.	—			

List of menus

The shooting mode menus and playback menus for still pictures and movies are shown below.

●P, A, S, M, ?, ঠ, 🏊, 💸, 😭 mode

Top menu 🕨	Tab ▶	Function >	Sub-menu 🕨	Setting	Ref. page
MODE MENU	CAMERA	FLASH MODE	FLASH MODE	AUTO, ②, \$, \$SLOW, €	P.59
			<u>\$7</u>	-2.0 to +2.0	P.64
			■ ¶FLASH	IN+⁼¶, ⁼¶, SLAVE	P.66, 69
			\$ SLOW	SLOW1, OF SLOW,	P.63
		AF/&/MF	FOCUS MODE	AF, 🗶, MF, 🐒, 🐒 MF	P.79, 87, 88
			AF MODE	iESP, 💿	P.74
			FULLTIME AF	OFF, ON	P.75
			P-AF	OFF, ON	P.76
		ESP/•		ESP, •, • MULTI,	P.81
		및 *1		□, HI⊒, □, AF⊒, BKT	P.92
		৩/ ۱		OFF, 🖏, 🕯	P.89, 90
		ISO		AUTO, 50 to 400	P.107
		DIGITAL ZOOM		OFF, ON	P.58
		NOISE REDUCTION	l *2	OFF, ON	P.118
		FUNCTION		OFF, PANORAMA, , BLACK & WHITE, SEPIA	P.95, 97, 98
		FRAME ASSIST		OFF, ON	P.99
		Ŷ		OFF, ON	P.100
		MY MODE *3		MY MODE 1 to MY MODE 8	P.73
		allu		OFF, 🔁 ON, ON, DIRECT	P.119

List of menus

PICTURE	WB	AUTO	WB2, SET	P.109, 112, 113
		PRESET 1	PRESET 1, WB2, SET	P.110, 112, 113
		PRESET 2	PRESET 2, WB2, SET	P.110, 112, 113
		CUSTOM	CUSTOM 1 to CUSTOM 4	P.111
			GO, ADJUST, SET	P.111, 112, 113
	4 :-	RAW	OFF, SHQ, HQ, SQ1, SQ2	P.103, 105, 106
		TIFF	3264 × 2448/ 3264 × 2176 (3:2)/ 2592 × 1944/ 2288 × 1712/ 2048 × 1536/ 1600 × 1200/ 1280 × 960/ 1024 × 768/ 640 × 480	P.102, 105
		SHQ	3264 × 2448/ 3264 × 2176 (3:2)	P.102, 105
		HQ	3264 × 2448/ 3264 × 2176 (3:2)	P.102, 105
		SQ1	2592 × 1944/ 2288 × 1712/ 2048 × 1536	P.102, 105
		SQ2	1600 × 1200/ 1280 × 960/ 1024 × 768/ 640 × 480	P.102, 105
	SCENE MODES *2		Normal, 💽, 🏊, 赵	P.117
	SHARPNESS		-5 to +5	P.114
	CONTRAST		-5 to +5	P.115
	HUE		-5 to +5	P.116
	SATURATION		-5 to +5	P.117
CARD	CARD SETUP		FORMAT, CANCEL	P.166

	ì r	ALL RESET *4		OFF, ON	P.145
		REC VIEW		OFF, AUTO, 3 SEC, 5 SEC, 10 SEC	P.147
		BEEP		OFF, 1, 2] P.148
		SHUTTER SOUND		OFF, 1, 2	P.149
		DIAL		NORMAL, CUSTOM 1 to CUSTOM 3	P.150
		EV STEP		1/3EV, 1/2EV	P.153
		CUSTOM BUTTON			P.154
		SHORT CUT			P.157
		MY MODE SETUP	CURRENT	MY MODE 1 to MY MODE 8	P.160 161
			RESET	MY MODE 1 to MY MODE 8	P.160 162
			CUSTOM	MY MODE 1 to MY MODE 8	P.160 162
		CONTROL PANEL		OFF, ON	P.163
()*5					P.92
(ISO) *5					_ P.107
(DIGITAL ZOOI	VI)*5				P.58

*1 Cannot be selected in 🕑 mode.

*2 Cannot be selected in 🕑 📥 💸 🕅 mode.

*3 Can be selected only in My mode.

*4 Cannot be selected in My mode.

*5 The function registered in the shortcut menu is displayed.

●∰ mod	le				
Top menu 🕨	Tab 🕨	Function +	Sub-menu 🕨	Setting +	Ref pag
MODE MENU	CAMERA	AF/💥/MF	FOCUS MODE	AF, 🖏, 😴	P.79 87
			FULLTIME AF	OFF, ON	P.7
		ESP /		ESP, •, • MULTI,	P.8
		ి/ఓ		OFF, 达, 🌡	P.89 90
		FUNCTION		OFF, BLACK & WHITE, SEPIA	P.98
		FRAME ASSIST		OFF, ON	P.9
	PICTURE	WB	AUTO	[₩ <u>₿%]</u> , SET	P.10 112 113
			PRESET 1	PRESET 1, WBZ, SET	P.1 ⁻ 112 113
			PRESET 2	PRESET 2, WBZ, SET	P.1 112 113
			CUSTOM	CUSTOM 1 to CUSTOM 4	P.1
			GO, ADJUST, SET	P.1 [.] 112 113	
	4 :-		SHQ, HQ, SQ	P.10	
		SCENE MODES		Normal, 💽, 🏊, 💆	P.1
		SHARPNESS		–5 to +5	P.1
		CONTRAST		–5 to +5	P.1
		HUE		-5 to +5	P.1
		SATURATION		–5 to +5	P.1
	CARD	CARD SETUP		FORMAT, CANCEL	P.10
	ì r	ALL RESET		OFF, ON	P.14
		REC VIEW		OFF, AUTO, 3 SEC, 5 SEC, 10 SEC	P.14
		BEEP		OFF, 1, 2	P.14
	DIAL		NORMAL, CUSTOM 1 to CUSTOM 3	P.1	
		EV STEP		1/3EV, 1/2EV	P.1
		CUSTOM BUTTO	N		P.1
		CONTROL PANEL	-	OFF, ON	P.10
Ŷ				OFF, ON	P.10
ISO				AUTO, 50 to 100	P.10
DIGITAL ZOON	N			OFF, ON	P.5

			_		Ref.
Top menu 🕨	Tab ▶	Function	Sub-menu 🕨	Setting •	page
MODE MENU	EDIT	RAW DATA EDIT	4 :-	TIFF, SHQ, HQ, SQ1, SQ2	P.140
			Z	-5 to +5	P.140
			WB	AUTO, PRESET 1, PRESET 2, CUSTOM,	P.140
			WBŻ	RED 7 to BLUE 7	P.140
			SCENE MODES	Normal, 💽, 🌇, 💆	P.140
			SHARPNESS	-5 to +5	P.140
			CONTRAST	-5 to +5	P.140
			HUE	-5 to +5	P.140
			SATURATION	-5 to +5	P.140
			FUNCTION	OFF, BLACK & WHITE, SEPIA	P.140
			4		P.140
				640 × 480, 320 × 240, CANCEL	P.138
		(F		NEW FILE, CANCEL	P.139
		COPY		ALL, SELECT	P.141
	CARD	CARD SETUP		ALL ERASE, FORMAT	P.144, 166
	ì a	ALL RESET		OFF, ON	P.145
		BEEP		OFF, 1, 2	P.148
		VOLUME		0 to 5	P.165
		8		4, 9, 16	P.126
ł					P.127
⊕				OFF, ON	P.136
Ų				OFF, ON	P.137

Playback mode (still pictures)

Top menu 🕨	Tab 🕨	Function >	Sub-menu 🕨	Setting >	Ref. page
MODE MENU	CARD	CARD SETUP		ALL ERASE, FORMAT	P.144, 166
	ì a	ALL RESET		OFF, ON	P.145
		BEEP		OFF, 1, 2	P.148
		VOLUME		0 to 5	P.165
		8		4, 9, 16	P.126
MOVIE PLAY				MOVIE PLAYBACK, INDEX, EDIT	P.128
COPY				ALL, SELECT	P.141

Playback mode (movies)

● SET UP mode					
Top menu 🕨	Tab 🕨	Function >	Sub-menu 🕨	Setting +	Ref. page
	ì	ALL RESET	ALL RESET		P.145
		REC VIEW		OFF, AUTO, 3 SEC, 5 SEC, 10 SEC	P.147
		BEEP		OFF, 1, 2	P.148
		SHUTTER SOUND		OFF, 1, 2	P.149
		DIAL		NORMAL, CUSTOM 1 to CUSTOM 3	P.150
		EV STEP		1/3EV, 1/2EV	P.153
		CUSTOM BUTTON			P.154
		SHORT CUT			P.157
		MY MODE SETUP	RESET	MY MODE 1 to MY MODE 8	P.160, 162
			CUSTOM	MY MODE 1 to MY MODE 8	P.160, 162
		CONTROL PANEL		OFF, ON	P.163
		VOLUME		0 to 5	P.165
		8		4, 9, 16	P.126
	SETUP	₽.≘		ENGLISH, FRANCAIS, DEUTSCH, ESPAÑOL, ITALIANO, РУССКИЙ, PORTUGUES, 日本語	P.167
		Ð			P.168
		=)))		OFF, LOW, HIGH	P.169
		SLEEP		30 SEC, 1 MIN, 3 MIN 5 MIN, 10 MIN	P.169
		FILE NAME		RESET, AUTO	P.170
		BATTERY SAVE		OFF, ON	P.171
		PIXEL MAPPING		START	P.172
		I			P.173
		m/ft		m, ft	P.173
		VIDEO OUT		NTSC, PAL	P.174
		AF ILLUMINATOR		OFF, ON	P.78
		USB		PC, PRINT	P.175

List of factory default settings

The menu functions are set to the following default settings at the time of purchase.

Shooting mode

FNo. F2.4 Program shift RESET SHUTTER 1/1000 Zoom 28mm LCD/EVF LCD CARD xD 2 0.0 FLASH AUTO (S, M: \$ SLOW, \$2: (\$) 12 0.0
SHUTTER 1/1000 Zoom 28mm LCD/EVF LCD CARD xD 2 0.0 FLASH AUTO (S. M: \$SLOW, \$200) (S. M: \$SLOW, \$SLO
Zoom 28mm LCD/EVF LCD CARD xD Mathematical 0.0 FLASH AUTO (S. M: \$ SLOW, \$20: \$) 122 0.0
LCD/EVF LCD CARD xD 24 0.0 FLASH AUTO (S, M: \$ SLOW, \$20: \$) 52 0.0
CARD xD 22 0.0 FLASH AUTO (S, M: \$ SLOW, \$2: \$) 52 0.0
Image: Second state 0.0 FLASH AUTO (S, M: \$ SLOW, ∯: \$) Image: Second state 0.0
FLASH AUTO (S, M: \$ SLOW, ≌: (\$) 102 0.0
(S , M : \$ SLOW, 2P : ③ ● ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
FLASH IN+³■
SLAVE 1
\$SLOW \$SLOW1
AF/🖫/MF AF
AF target mark Center
AF MODE iESP
FULLTIME AF OFF
P-AF ON
ESP/ ESP
Metering target Center
BKT ±1.0, 3 pictures
් OFF
ISO AUTO (A , S , M : 50)
DIGITAL ZOOM OFF

NOTAC RELIGION OFF FUNCTION OFF FRAME ASSIST OFF ♥ OFF ♥ OFF ♥ OFF ♥ OFF ♥ OFF HISTOGRAM OFF Histogram Center target mark MY MODE MY MODE MY MODE 1 WB AUTO (WEZ) None CUSTOM WB Not Registered €: HQ (3264 × 2448, \$20 × 240) JPEG OFF TIFF 3264 × 2448 SQ1 2048 × 1536 NORMAL SQ2 640 × 480 NORMAL SHARPNESS ±0 HUE ±0 SATURATION ±0	NOISE REDUCTION	OFF (): fixed on ON)
FRAME ASSIST OFF ● OFF ● (movie) ON HISTOGRAM OFF Histogram Center target mark MY MODE 1 WB AUTO WBZ None CUSTOM WB Not Registered ●: HQ (3264 × 2448, 26: 320 × 240) JPEG OFF TIFF 3264 × 2448 SQ1 2048 × 1536 NORMAL SQ2 640 × 480 NORMAL SQ2 640 × 480 NORMAL SHARPNESS ±0 HUE ±0		, ,
♥OFF● (movie)ONHISTOGRAMOFFHistogram target markCenterMY MODEMY MODE 1WBAUTOWBZ2NoneCUSTOM WBNot Registered●:HQ (3264 × 2448, £?: 320 × 240)JPEGOFFTIFF3264 × 2448SHQ3264 × 2448SQ2640 × 480 NORMALSQ2640 × 480 NORMALSCENE MODESNORMALSHARPNESS±0CONTRAST±0		0
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SQ1 2048 × 1536 NORMAL SQ2 640 × 480 NORMAL SCENE MODES NORMAL SHARPNESS ±0 CONTRAST ±0 HUE ±0	SHQ	3264 × 2448
SQ2 640 × 480 NORMAL SCENE MODES NORMAL SHARPNESS ±0 CONTRAST ±0 HUE ±0	HQ	3264 × 2448
SCENE MODES NORMAL SHARPNESS ±0 CONTRAST ±0 HUE ±0	SQ1	2048 × 1536 NORMAL
SHARPNESS ±0 CONTRAST ±0 HUE ±0	SQ2	640 × 480 NORMAL
CONTRAST±0HUE±0	SCENE MODES	NORMAL
HUE ±0	SHARPNESS	±0
	CONTRAST	±0
SATURATION ±0	HUE	±0
	SATURATION	±0

Playback mode

INFO	OFF
Оп	OFF
Ġ	0°
L	OFF

•	OFF
Ŷ	OFF
COPY	ALL
SETUP

ALL RESET	ON
REC VIEW	ON
BEEP	1-LOW
SHUTTER SOUND	1-LOW
DIAL	NORMAL
EV STEP	1/3EV
CUSTOM BUTTON	ISO
SHORT CUT	A: 🖵, B: ISO C: DIGITAL ZOOM
CONTROL PANEL	OFF
VOLUME	3
8	9

₽ .≡	ENGLISH
Ð	Y-M-D 2004/01/01 00:00
■1))	LOW
SLEEP	3 MIN
FILE NAME	AUTO
BATTERY SAVE	OFF
	NORMAL
m/ft	m
VIDEO OUT	NTSC or PAL*
AF ILLUMINATOR	ON
USB	PC

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

List of items by shooting mode

In $\ensuremath{\mathbb{M}}\xspace^\circ$ mode, available functions vary depending on the modes set in the MY MODE SETUP menu.

	Mode									
		Р	Α	S	М	🕄 🌶 📥 🗹	£			
Fur	nction									
Zoo	om	\checkmark								
DIC	GITAL ZOOM	✓								
AF	MODE	 ✓ 								
FU	LLTIME AF	✓								
P-A	٨F			✓			_			
AF	target mark	 — 								
Ма	nual focus	✓								
	AUTO	,	/	-	_	✓	_			
	٢	Ň	/	-	_	✓	_			
	\$	'n	/	-	_	✓	_			
Flash	\$SLOW1			· · ·			—			
ш	@\$ SLOW	'n	/	-	_	✓	_			
	\$SLOW2			~			-			
	٤			√						
57				√			—			
\$ 8	SLOW	 — 								
-		 - 								
•]			~		_				
•) MULTI		~		Ι	~	—			
•				~						
Me	tering target			~			—			
AE	LOCK		✓		—	✓	—			
۳				~						
s				~						
s	MF			~			_			
ঙ				~						
â				~						
	_, _, AF _			√	*1		_			
вк			~		-	✓ *1	_			
z	PANORAMA			√			—			
CTIC	⊕			√			—			
FUNCTION	BLACK & WHITE			~						
	SEPIA			√						
	AME ASSIST			✓						
allti		 ✓ – 								
His	stgram target mark	✓ –								
	still picture)			√						
	movie)						~			
۲				~						

List of items by shooting mode

Mode						
	Р	Α	S	М	🕄 🍂 📥 🗹	£2
Function						
ISO			~			
₽ _		✓		_	✓	
WB			~			
WB ¹ /2			✓			
CUSTOM WB			✓			—
SHARPNESS			✓			
CONTRAST			√			
HUE			✓			
SATURATION			√			
SCENE MODES		,	/		—	~
NOISE REDUCTION		,	/		-	
ALL RESET			√	*2		
REC VIEW			✓			-
BEEP			✓			
SHUTTER SOUND			√			—
DIAL			√			
EV STEP			✓			
CUSTOM BUTTON			✓			
SHORT CUT			√			—
MY MODE			√			—
CONTROL PANEL			√			

✓: Available — : Not available

*1 Cannot be selected in 🕏 mode

*2 Cannot be selected in My mode

Camera maintenance

After use

Turn off the camera, detach the lens hood, and then fit the lens cap on the lens. If you do not intend to use the camera for a long period, remove the battery.

Cleaning the camera

1 Turn off the camera. (INP P.25)

2 Remove the battery (I ≥ 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:

 \rightarrow 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

 \rightarrow 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 ventilated well.
- Periodically, replace the battery, and test camera functions.



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

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).

· Do not apply excessive force to the remote control device.





Specifications

Product type Recording system	Digital camera (for shooting and displaying)				
Still picture	 Digital recording, TIFF (non-compression), JPEG (in accordance with Design rule for Camera File system (DCF)), RAW Data 				
Applicable standards	: Exif 2.2, Digital Print Order Format (DPOF), PRINT Image Matching II, PictBridge				
Sound with still pictures	: Wave format				
Movie	: QuickTime Motion JPEG support				
Memory	: xD-Picture Card (16-512MB), CompactFlash, Microdrive [*] *340 MB Microdrive cannot be used.				
Recording image	: 3264 × 2448 pixels (RAW, TIFF, SHQ, HQ)				
resolution	3264 × 2176 pixels (3:2, TIFF, SHQ, HQ)				
	2592 × 1944 pixels (TIFF, SQ1)				
	2288 × 1712 pixels (TIFF, SQ1)				
	2048 × 1536 pixels (TIFF, SQ1)				
	1600 × 1200 pixels (TIFF, SQ2) 1280 × 960 pixels (TIFF, SQ2)				
	1024 × 768 pixels (TIFF, SQ2)				
	640 × 480 pixels (TIFF, SQ2)				
No. of storable pictures					
When a 32 MB card is	: Approx. 2 frames (RAW : 3264 × 2448)				
used (without sound)	Approx. 1 frames (TIFF : 3264 × 2448)				
	Approx. 8 frames (SHQ : 3264 × 2448)				
	Approx. 16 frames (HQ : 3264 × 2448) Approx. 40 frames (SQ1 : 2048 × 1536 NORMAL)				
	Approx. 331 frames (SQ2 : 640 × 480 NORMAL)				
No. of effective pixels	: 8,000,000 pixels				
Image pickup device	: 1/1.8" CCD solid-state image pickup, 8,310,000 pixels				
Lens	: Olympus lens 7.1 mm to 35.6 mm, f2.4 to f3.5, 14				
	elements in 5 groups (equivalent to 28 mm to 140 mm lens on 35 mm				
	camera)				
Photometric system	 Digital ESP metering, spot metering system, center-weighted metering system 				
Aperture	: f2.4 to f8.0				
Shutter speed	: 16 to 1/4000 sec. (bulb mode: max. 8 min.)				
Shooting range	: 0.8 m (2.6 ft.) to ∞ (normal) 0.2 m to 0.8 m (0.7 ft to 2.6 ft.) (macro mode)				
Viewfinder	: 0.44" TFT color LCD display, 240,000 pixels				
Monitor	: 1.8" TFT color LCD display, 134,000 pixels				

I

Autofocus	:	Dual autofocus Contrast detection system, Phase-difference detection system
Outer connector	:	DC-IN jack, USB connector (mini-B), A/V OUT jack
Automatic calendar system	:	2000 up to 2099
Operating environment		
Temperature	:	0°C to 40°C (32°F to 104°F) (operation) -20°C to 60°C (-4°F to 140°F) (storage)
Humidity	:	30% to 90% (operation)/10% to 90% (storage)
Power supply	:	Only an Olympus BLM-1 lithium-ion battery AC adapter specified by Olympus (optional)
Dimensions	:	124 mm (W) × 84.5 mm (H) × 99 mm (D) (4.9" × 3.3" × 3.9") (excluding protrusions)
Weight	:	Approx. 510 g (1.1 lb.) (without battery and card)

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

Lens filter
A lens filter can be fitted to the lens. For more information, please refer to our web site.
Sile.

Glossary of terms

A (Aperture Priority) Mode

You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

AE (Automatic Exposure)

The camera's built-in exposure meter automatically sets the exposure. The 3 AE modes available on this camera are **P** mode, in which the camera selects both the aperture and shutter speed, **A** mode, in which the user selects the aperture and the camera sets the shutter speed, and **S** mode, in which the user selects the shutter speed and the camera sets the aperture. In **M** mode, the user selects both the aperture and the shutter speed.

Aperture

The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

Backlight

A light source to illuminate the monitor from behind the screen.

CCD (Charge-Coupled Device)

This converts light passing through the lens into electrical signals. On this camera, light is picked up and converted into RGB signals to build a single image.

Contrast Detection System

This is used to measure the distance to the subject. The camera determines if the image is focused by the level of contrast in the subject.

Conventional Photograph

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography). This system is in contrast to still video and digital photography.

DCF (Design rule for Camera File system)

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of field

The subject itself as well as some area to the front and rear of the subject are focused. The entire depth of this focused area, from the front to the rear of the subject, is called "depth of field".

Digital ESP (Electro-Selective Pattern) Light Metering

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

DPOF (Digital Print Order Format)

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can easily have the desired images printed by a printer or print lab that supports the DPOF format.

Dual Auto Focus

An auto focus system that uses two different focus detection systems in combination. This camera uses the CCD's contrast detection system in combination with the specified sensor's phase difference detection system, nullifying the shortcoming of each system.

Eclipsing (Vignetting)

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

EV (Exposure Value)

A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be indicated by brightness and ISO settings.

Exposure

The amount of light used to capture an image. The exposure is determined by the time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Flash Bracket

A mount used to attach an external flash to the camera. Shadows on the subject can be changed by detaching the flash. The flash is used in combination with the flash cable.

ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)

A compression format for still images. Photographs (images) shot using this camera are recorded onto the card in JPEG format when the record mode is set to SHQ, HQ, SQ1 or SQ2. By downloading these images to a personal computer, users can edit them using graphics application software or view the images using an Internet web browser.

M (Manual) Mode

The user sets both the aperture and shutter speed.

NTSC (National Television Systems Committee) / PAL (Phase Alternating Line)

Television formats. NTSC is mainly used in Japan, North America and Korea. PAL is mainly used in Europe and China.

P (Program) Mode

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

Phase-difference Detection System

This system measures the distance to the subject. The distance is calculated by the difference in the image of the subject captured by a pair of sensors.

Pixels

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

Resolution

The size of an image expressed by the number of pixels that make up the image. For instance, a picture taken in 640×480 resolution is the same size as the screen when the monitor setting is 640×480 . However, if the monitor setting is 1024×768 , the picture only takes up part of the screen.

S (Shutter Priority) Mode

Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

Slave Flash

A wireless flash that is not connected to the camera by a synchronization cord. It flashes in phase with the flash on the camera and can be used for lighting techniques, such as changing the way shadows are cast on a subject.

Sleep Mode

A mode designed to save battery life. The camera automatically enters the sleep mode if you do not operate it for a certain time. To get out of the sleep mode, use any button on the camera (shutter button, arrow pad, etc.).

Synchro Terminals

Terminals on an external flash unit for connecting it to the camera.

TIFF (Tagged Image File Format)

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 an uncompressed 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.

TTL-AUTO

For use with an external flash. Light emitted by the flash is reflected by the subject and measured by the light receptor in the camera as it passes through the lens. This is used to adjust the external flash intensity.

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mpus sonware updates can be obtained at. http://www.olympus.com/digita

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 Please note some (mobile) phone services/provider do not permit access or request an additional prefix to +800 numbers.

For all not listed European Countries and in case that you can't get connected to the above mentioned number please make use of the following CHARGED NUMBERS: +49 180 5 - 67 10 83 or +49 40 - 237 73 899 Our Technical Customer Support is available from 9 am to 6 pm MET (Monday to Friday)

OLYMPUS



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.
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- The PC screens shown in this manual may differ slightly from the actual displays on some PC models.

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 Macintosh



By connecting the camera to a computer with the provided USB cable, images on a card can be transferred to the computer. Some OS's (operating systems) may need a special setup before connecting to the camera for the first time. Follow the chart below.

For details, see the Olympus Corporate Site or phone customer support.



- * Even if your computer has a USB connector, data transfer may not function correctly if you are using one of the operating systems listed below or if you have an add-on USB connector (extension card, etc.).
- Windows 95/NT 4.0
- Windows 98/98 SE upgrade from Windows 95
- Mac OS 8.6 or lower (except Mac OS 8.6 equipped with USB MASS Storage Support 1.3.5 installed at the factory)
- Data transfer is not guaranteed on a home-built PC system or PCs with no factory installed OS.



Note

- When connecting the camera to the computer, make sure that there is sufficient remaining battery power. When connected (transmitting) to the computer, the camera does not enter the sleep mode nor will the camera's power turn off automatically. Depending on the camera model, when the battery power runs out or the internal temperature rises, the camera may stop operating automatically. This could cause the computer to malfunction, and any image data (file) being transmitted may be lost. Be careful when downloading files for a long period of time. Use the AC adapter (optional) when downloading files.
- If you connect or disconnect the AC adapter when the camera is connected to the computer and is running on battery power, it may result in the loss of image data on the card or cause a malfunction in the computer. Before connecting or disconnecting the AC adapter, disconnect the camera from the computer and make sure that the camera is turned off.
- To avoid computer malfunctions, do not turn off the camera when the camera is connected to a computer.
- If the camera is connected to the computer via a USB hub, operation may not be stable if there are any compatibility problems between the computer and the hub. In such cases, do not use the hub and connect the camera directly to the computer.
- You can view images using: graphics applications that support the JPEG file format (Paint Shop Pro, Photoshop, etc.); Internet browsers (Netscape Communicator, Microsoft Internet Explorer, etc.); CAMEDIA Master software; or other software. For details on using commercial graphics applications, refer to their instruction manuals.
 - QuickTime is needed for playing back movies. QuickTime is included on the provided software CD.
 - If you want to process images, make sure to download them to your computer first. Depending on the software, image files may be destroyed if the images are processed (rotated, etc.) while they are on the card.

Identifying the OS

Identify the OS on your computer before connecting the camera. How to identify the OS depends on the computer.

• Windows

1 Double-click the "My Computer"

icon on your desktop.

When the "My computer" icon is not on your desktop, click "Control Panel" from the "Start" menu.

Double-click the "Control Panel" icon.







2

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" (1 p.9). Users running Windows Me/2000/XP 1 p.11 Users running other OS 1 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 I p.23 Users running other OS I 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.

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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" (I reg p.11).

1 Insert the provided software CD into your CD-ROM drive.

2 The Olympus Windows Installer should automatically launch. Click "USB Driver".

If the USB driver is already installed in your computer, this option will not appear.

 This option will not appear if you are using Windows Me/2000/XP.



If the installer is not automatically launched, select "Run.." on the "Start" menu and then execute "(drive letter):/ Information.exe".



The drive letter of the CD-ROM varies depending on the computer. To identify the drive letter, double-click "My Computer" on the desktop. Installing the USB driver for Windows 98 (When using Windows 98/98 SE)

3	Click "Continue". The installation of the USB driver will start.	Install USB Driver for Windows98
		Press [Continue] to circle the USB driver for Opmpus digital cameras:
4	Click "OK" to restart your computer and the installation is complete.	Install USB Driver for Windows98
		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

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. (ISP p.9)

 Some camera models have a "USB" setting in the menu. Make sure that "PC" is selected before connecting. This is not required if your camera does not have this setting. For details on how to



operate the menu, refer to your camera's reference manual.

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





The location of the USB port varies depending on the computer. For details, refer to your computer's manual.

3 After making sure that the camera is turned off, connect the end of the USB cable to the USB connector on the camera.

The location of the USB connector or multi connector varies depending on the camera model. Refer to the camera manual for details.



4 Turn the camera on.

Camera with a lens barrier

The power turns on automatically, with the exception of some models which require you to press the (a) (monitor) button.

When the camera is turned on, the lamp on the right of the viewfinder lights up.



(monitor) button

• Camera with a reduct mode Set the mode dial to reduct. (If the camera has a power switch as well as a mode dial, turn the power switch to ON.)



5 Some camera models display this screen (shown right) on the monitor. When this screen appears, use the arrow pad to select "PC" and press the OK button.

USB	Arrow pad
P C	
PRINT	
EXIT	
SELECT + E GO+ OK	

OK button

$m{b}$ The computer recognizes the camera as a new device.

When you connect the camera to the computer for the first time, the computer automatically recognizes the camera. Click "OK" when the message saying that the installation is completed appears. The computer recognizes the camera as a "Removable Disk".

Windows XP

You can download image files from the camera easily. Select "Copy pictures to folder on my computer using Microsoft Scanner and Camera Wizard", then follow the on-screen instructions. You may also select "take no action" to bypass the Microsoft Scanner and Camera Wizard. You may then use a more advanced image viewing/editing program such as Olympus CAMEDIA Master software. For detailed instructions on downloading, refer to the CAMEDIA Master software user's guide.



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

Confirming the computer recognizes the camera

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" (IISP p.15) to make sure that the USB driver is fully installed.

Confirming the USB driver is installed

If the computer does not recognize the camera as a Removable Disk, follow the procedure below to check whether the USB driver has been fully installed.

1 Open "My Computer" and double-click the "Control Panel" icon. For users running Windows XP, open "Control Panel" from the "Start" menu.



2 Double-click the "System" icon.



3 The System window will appear. Click the "Device Manager" tab.



4 Confirm that "OLYMPUS Digital Camera" is in the "Universal Serial Bus Controller" category.

If you cannot find the "OLYMPUS Digital Camera", turn the camera off, disconnect the camera from the computer and start again. Users running Windows 98/98 SE start again from "Confirming the USB driver is installed", and Users running Window Me/2000/XP start from "Connecting the camera to the computer".



Note

If the USB driver was successfully installed, you can find the following in the "Device Manager".

- the name of the camera you have connected listed under "Disk drives"
- "OLYMPUS Digital Camera" listed as one of the items in the "Universal Serial Bus Controller" category

Windows

1 Double-click the "My Computer" icon on the desktop.

For users running Windows XP, click "Control Panel" from the "Start" menu.

2 Double-click the "Removable Disk" icon.

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

If an error message appears when you double-click the icon, there may be a problem with one of the following:

 $\ensuremath{\mathbbm O}$ 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.









Double-click the "100olymp" folder. Image files (JPEG files) with files names such as "P1010001.jpg" are



Note

displayed.

4

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

Folder name	File name	
(Example) 100 ↓	(Example) 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.



The "My Documents" window is displayed.



6 Drag & drop the image you want to save in the computer (in this case, P1010012.jpg) to the "My Documents" window.



The image is saved in the computer (in My Documents folder).

To select all files, choose Edit > Select all.

Note

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



The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

If your OS is Windows Me/2000, proceed to "Windows Me/2000/XP" (ISP p.21).

Lamp

• Windows 98

- 1 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking. Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.
 - Double-click the "My Computer" icon and right-click the "Removable Disk" to display the menu.
- 3 Click "Eject" on the menu.



4 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

The green lamp lights on some models. If the lamp is no flashing, then the cable can be removed.

5 Remove the USB cable from the camera.





6 Remove the USB cable from your computer.



• Windows Me/2000/XP

1 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.



Disconnecting the camera from your computer

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

The message saying that the drive has been stopped appears.

3 Click on the message.

The "Unplug or Eject Hardware" window appears.

- 4 When a message appears, click "OK".
- 5 Remove the USB cable from the camera.



Stop USB Mass Storage Device - Drive(G:)

1:45 PI

6 Remove the USB cable from your computer.





If the window returns the following message when you click "Unplug or Eject Hardware", first make sure that no image data is being downloaded from the camera, and then remove the USB cable.

Problem	Ejecting USB Mass Storage Device	x
$\underline{\Lambda}$	The device 'Generic volume' cannot be stopped right now.	Try stopping the device again later.
	OK	





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.

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Connecting the camera to the computer

1 Some camera models have a "USB" setting in the menu. Make sure that "PC" is selected before connecting. This is not required if your camera does not have this setting. For details on how to



operate the menu, refer to your camera's reference manual.

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



Macintosh

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.



4 Turn the camera on.

Camera with a lens barrier

The power turns on automatically, with the exception of some models which require you to press the (a) (monitor) button.

When the camera is turned on, the green lamp on the right of the viewfinder lights up.



Mode dial-

(monitor) button

• Camera with a random mode Set the mode dial to random. (If the camera has a power switch as well as a mode dial, turn the power switch to ON.)



6 The computer recognizes the camera as a new device.

The computer recognizes the camera automatically and an "Untitled" icon appears on the desktop.

If you cannot find this icon, turn off the camera and connect again.

Mac OS X

When the computer has recognized the camera, the Apple Image Capture software automatically launches. \mathbb{I} p.29



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

SEI EPTA 🖂



GO+ OK

OK button

lacintos



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).

I 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 doubleclick 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.



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





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



- · Serial numbers of image files run from 0001 to 9999.
- · Serial numbers of folders run from 100 to 999.
- When file number 9999 is reached, a new folder is created and assigned the next number.
- Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

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



The "Hard Disk" window is displayed.



5 Drag & drop the image you want to save in the computer (in this case, P1010012.JPG) to the "Hard Disk" window.

> The image is saved in the computer (in the Hard disk).

 To select all images, click Edit > Select all.



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.



The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

• Mac OS X

Malfunctions such as the following may occur due to the OS.

- If the camera is not connected correctly, a malfunction occurs in the computer.
- Date and time information of image files is not accurately displayed.
- If the card cover of the camera is opened while connecting to the computer, the "untitled" icon does not disappear from the desktop. etc.

When the computer has recognized the camera, the Apple Image Capture software dialog appears.

- 1 From the "Download To" menu, select a destination folder.
- To download all images, click "Download All". To selectively download images, click "Download Some" and highlight the desired images.

000	C3100Z/C3020Z		
\square	Download To:	Pictures, Movies, and Music folders	•
	Automatic Task:	None	
		Occurs after downloading	
	Hot Plug Action:	Image Capture Application	101
		Application to open when a camera is connected	
	items to download.	11	
	(P	ownload Some Download All	-
	0	ownload Some) Download All	0

The images are transferred from the camera to your computer.



If you are operating Mac OS X and you want to download images using the same procedure as for Mac OS 9, select "File > Close" and exit the Apple Image Capture software. At this time, the camera is indicated as "unlabeled".



If you use the Apple Image Capture software, images downloaded to your computer and transferred back to a card may not play back on the camera or may have other problems.

Disconnecting the camera from your computer

 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.



Card access lamp

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

lamp is not blinking.

Make sure that the lamp on the right

of the viewfinder or the card access

The green lamp lights on some models. If the lamp is no flashing, then the cable can be removed

Remove the USB cable from the

untitled





5 Remove the USB cable from your computer.





Δ

camera.

3

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.



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