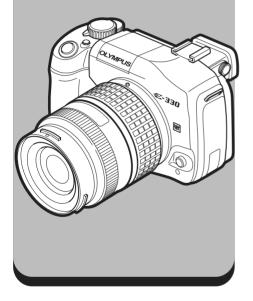
OLYMPUS[®]

DIGITAL CAMERA **C-330** ADVANCED MANUAL



Using the functions of the camera

Selecting the right mode for shooting conditions

Various shooting functions

Focusing functions

Exposure, image and color

Playback

Customizing the settings/functions of your camera

Printing

Connecting to a computer

Getting to know your camera better

Information

Interchangeable lenses

Others

- This manual explains advanced techniques such as shooting and playback functions, customizing functions or settings and transferring recorded images to a computer, etc.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.

How to use this manual

This manual includes a table of contents, index and menu list to help you easily locate the information you need.

Searching the table of contents

All section titles and chapter headings are listed in the table of contents so that you can guickly find the information you need. There are chapters on camera buttons, how to operate the menus, the functions of each feature, etc.

For example

When you want to play back the images you have just taken

Go to "6 Playback" and look for the page titled "Singleframe playback......89".

Single-frame playback	
Close-up playback	
Light box display	
Index display/Calendar display	
-formation display	
Ziow.	
Rotating images	
Playback on TV	
Editing still images	
Copying images	
Protecting images - Preventing accidental erasure.	
Erasing images	
Single-frame erase	
All-frame erase	

Searching the index

Terms used in this manual (such as the names of functions) are listed in alphabetical order. When you come across a term that you are not familiar with or about which you want to learn more, you can search the index to find the relevant page. Camera part names and monitor indications are listed at the end of the manual

For example If you want to know more about the term "HQ"

→ Go to the index at the end of this manual and look under H for "HQ......71. 166".

Searching the list of menus

The camera's menus are listed in a tree structure. When you come across a menu whose name is unfamiliar on the menu screen, you can find the relevant pages for this menu function in the menu list.

For example

When you want to know how to make settings for WB in the menu screen

→ Go through the menus until you find WB and look for the reference page number.



For information on how to read the instructions in this manual, refer to "How to read the instruction pages"(P. 3).

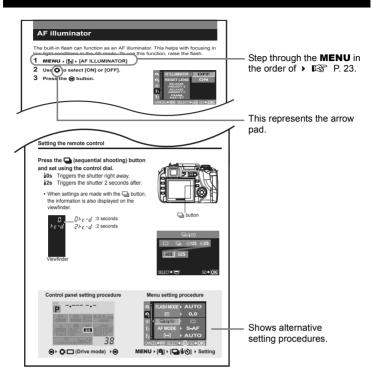
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How to read the instruction pages



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

Indications used in this manual

	Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided.
<u> TIPS</u>	Useful information and hints that will help you get the most out of your camera.
R\$	Reference pages describing details or related information.

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For customers in North and South America

For customers in USA

Declaration of Conformity

 Model Number
 :E-330

 Trade Name
 :OLYMPUS

 Responsible Party
 :OLYMPUS IMAGING AMERICA INC.

 Address
 :Two Corporate Center Drive, P.O. Box 9058, Melville, NY

 11747-9058 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.



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.

Trademarks

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



Lightning flash with an arrowhead, enclosed in a triangle, alerts you to the presence of uninsulated voltage points inside the product which could cause a serious electrical shock.

An exclamation mark enclosed in a triangle alerts you to important operating and maintenance instructions in the documentation provided with the product.

WARNING!

TO AVOID THE RISK OF FIRE OR ELECTRICAL SHOCK, NEVER EXPOSE THIS PRODUCT TO WATER OR OPERATE IN A HIGH HUMIDITY ENVIRONMENT.

General Precautions

- Read All Instructions Before you use the product, read all operating instructions.
- **Save These Instructions** Save all safety and operating instructions for future reference.
- **Heed Warnings** Read carefully and follow all warning labels on the product and those described in the instructions.
- Follow Instructions Follow all instructions provided with this product.
- Cleaning Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.
- Attachments For your safety, and to avoid damaging the product, use only accessories recommended by Olympus.
- Water and Moisture Never use this product around water (near a bathtub, kitchen sink, laundry tub, wet basement, swimming pool or in the rain).
- Location To avoid damage to the product and prevent personal injury, never place this product on an unstable stand, tripod, bracket, table or cart. Mount only on a stable tripod, stand, or bracket. Follow the instructions that describe how to safely mount the product, and use only the mounting devices recommended by the manufacturer.
- **Power Sources** Connect this product only to the power source described on the product label. If you are not sure about the type of power supply in your home, consult your local power company. Refer to your operating instructions for information on using the product with a battery.
- Foreign Objects, Liquid Spillage To avoid personal injury caused by fire or electrical shock from contact with internal high voltage points, never insert a metal object into the product. Avoid using the product where there is a danger of spillage.

- **Heat** Never use or store this product near any heat source such as a radiator, heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.
- Servicing Refer all servicing to qualified personnel. Attempting to remove the covers or disassemble the product, could expose you to dangerous high voltage points.
- **Damage Requiring Service** If you notice any of the conditions described below, refer servicing to qualified service personnel:
 - a) Liquid has been spilled onto the product or some other object has fallen into the product.
 - b) The product has been exposed to water.
 - c) The product does not operate normally despite following operating instructions. Adjust only the controls described in the operating instructions as improper adjustment of other controls could damage the product and require extensive repair work by a qualified technician.
 - d) The product has been dropped or damaged in any way.
 - e) The product exhibits a distinct change in performance.
- **Replacement Parts** When replacement parts are required, make sure that the service center uses only parts with the same characteristics as the originals, as recommended by the manufacturer. Unauthorized substitution of parts could result in fire, electrical shock, or create other hazards.
- Safety Check Upon completion of servicing or repairs, ask the service technician to perform safety checks to determine that the product is in good working order.

Handling the Camera

DANGER If the product is used without observing the information give under this symbol, serious injury or death may result.	
WARNING If the product is used without observing the information give under this symbol, injury or death may result.	
	If the product is used without observing the information given under this symbol, minor personal injury, damage to the equipment, or the loss of valuable data may result.

• Do not use the camera in areas exposed to flammable or explosive gases.

A fire or explosion may result.

• Do not use the flash on people (infants, small children, etc.) at close range.

When you fire the flash, you must be at least 1 m (3 ft) away from the faces of your subjects. Firing the flash too close to the subject's eyes could cause a momentary loss of vision.

• Keep young children and infants away from the camera.

If not, the following dangerous situations may occur:

- Becoming entangled in the camera strap or power cords, causing strangulation. If this happens, follow the doctor's instructions.
- Accidentally swallowing the battery or other small parts.
- Accidentally firing the flash into their own eyes or those of another child.
- Accidentally being injured by the moving parts of the camera.

• Do not use or store the camera in dusty or humid places.

Using or storing the camera in dusty or humid places may result in a fire or electric shock.

• Do not cover the flash with a hand while firing.

Do not cover the flash or touch it after it has just been fired sequentially. It may be hot and cause minor burns.

Do not take apart or modify the camera.

Never attempt to disassemble the camera. The internal circuits contain high voltage points which could cause serious burns or electrical shock.

• Do not let water or foreign objects inside the camera.

A fire or electric shock may result. If the camera is accidentally dropped in water, or if liquid is spilled into the camera, stop using it, allow it to dry, and then remove the battery. Contact the nearest authorized Olympus service center.

• Do not touch the battery or the battery charger while battery charging is in progress.

Wait until charging is complete and the battery has cooled.

The battery and battery charger become hot while charging. At these times, they may cause minor burns.

Do not use a non-specified battery and/or charger.

Use of a non-designated battery and/or re-charger may lead to camera or battery failure as well as other unexpected accidents. Any accidents resulting from use of non-designated equipment will not be compensated.

• Stop using the camera immediately if you notice any unusual odors, noise, or smoke around it.

If you notice any unusual odors, noise, or smoke around the camera during operation, switch it off immediately — and remove the battery. Allow the camera to sit idle for a few minutes to cool. Take the camera outdoors, away from flammable objects, and carefully remove the battery. Never remove the battery with bare hands. Contact the nearest Olympus service center immediately.

- Do not use the camera with wet hands. Damage or electric shock may result. Also, do not connect or disconnect the power plug with wet hands.
- Be careful with the strap when you carry the camera. It could easily catch on stray objects — and cause serious damage.
- Do not leave the camera in areas subject to extremely high temperature.

Doing so may cause parts to deteriorate and, in some circumstances, cause the camera to catch fire.

- When the camera contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
 - When used for a long period, the camera will get hot. If you hold on to the camera in this state, a low-temperature burn may be caused.
 - In places subject to extremely cold temperatures, the temperature of the camera's body may be lower than the environmental temperature. If possible, wear gloves when handling the camera in cold temperatures.

Do not damage the power cable.

Do not pull on the charger's cable or add another cable to it. Be sure to connect or disconnect the charger's cable while holding the power plug. If the following cases occur, stop using and contact an Olympus dealer or authorized customer support center.

- The power plug or cable produces heat, burning smell, or smoke.
- The power plug or cable is cracked or broken. The contact is bad on the power plug.

Battery handling precautions

Follow these important guidelines to prevent the battery from leaking, overheating, burning, exploding, or causing electrical shocks or burns.

⚠ DANGER

- Never heat or incinerate the battery.
- Do not connect the (+) and (-) terminals to each other using metal objects.
- Do not carry or store the battery where it may come into contact with metal objects such as jewelry, pins, fasteners, etc.
- Never store the battery where it will be exposed to direct sunlight, or subjected to high temperatures in a hot vehicle, near a heat source, etc.
- Never attempt to disassemble the battery or modify it in any way, such as by soldering.

Doing so may break the terminals or cause battery fluid to splash, resulting in potential fire, explosion, battery leakage, overheating or other damage.

• If battery fluid gets in your eyes, loss of eyesight may result. If battery fluid gets in your eyes, do not rub them. Flush them immediately with clear, cold running water and seek medical attention straight away.

- Keep the battery dry at all times. Never allow it to come into contact with fresh or salt water.
- Do not touch or hold the battery with wet hands.
- If the rechargeable battery does not recharge within the specified time, stop charging it and do not use it.
 If you do not, fire, explosion, ignition or overheating may result.
- Do not use the battery if it is cracked or broken. Doing so may cause explosion or overheating.
- Never subject the battery to strong shocks or continuous vibration. Doing so may cause explosion or overheating.
- Never attempt to modify the battery compartment on the camera, never insert anything (other than the specified battery) into the compartment.
- If the battery leaks, becomes discolored or deformed, or appears abnormal in any way during operation, stop using the camera immediately.

Contact your dealer or an authorized Olympus service center. Continued use may result in fire or electric shock.

 If the battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.

- Do not remove the battery from the camera immediately after operating the camera on battery power for a long time.
 Doing so may cause burns.
- Remove the battery from the camera if it is not going to be used for a long time.

Otherwise, battery leakage or overheating may cause a fire or injury.

FCC Notice

Radio and Television Interference

Change or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Adjust or relocate the receiving antenna.
- · Increase the distance between the camera and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.
 Only the OLYMPUS-supplied USB cables should be used to connect the camera to USB-enabled personal computers (PC).

Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

Legal and other notices

- Olympus makes no representations or warranties regarding any damages, or benefit expected by using this unit lawfully, or any request from a third person, which are caused by the inappropriate use of this product.
- Olympus makes no representations or warranties regarding any damages or any benefit expected by using this unit lawfully which are caused by erasing picture data.

Disclaimer of Warranty

- Olympus makes no representations or warranties, either expressed or implied, by or concerning any content of these written materials or software, and in no event shall be liable for any implied warranty of merchantability or fitness for any particular purpose or for any consequential, incidental or indirect damages (including but not limited to damages for loss of business profits, business interruption and loss of business information) arising from the use or inability to use these written materials or software or equipment. Some countries do not allow the exclusion or limitation of liability for consequential or incidental damages, so the above limitations may not apply to you.
- Olympus reserves all rights to this manual.

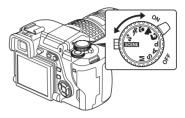
Warning

 Unauthorized photographing or use of copyrighted material may violate applicable copyright laws. Olympus assumes no responsibility for unauthorized photographing, use or other acts that infringe upon the rights of copyright owners.

1 Using the functions of the camera

How to use the mode dial

The mode dial allows you to change the camera settings easily according to the subject. Some of these settings can also be changed according to the shooting environment.



Easy shooting modes

This camera features optimum settings for different subjects. You can also change the settings depending on the mode. ($I\!\!I\!\!S\!\!$ P. 25)

Portrait shooting

Suitable for shooting a portrait-style image of a person.

Landscape shooting

Suitable for shooting landscapes and other outdoor scenes.

Macro shooting

Suitable for taking close-up pictures (macro shooting).

X Sport shooting

Suitable for capturing fast-moving action without blurring.

₺ Night scene and portrait shooting

Suitable for shooting both the main subject and background at night.

SCENE Scene mode

20 different scene modes are available to suit a wide range of shooting situations. ($I\!\!I\!\!S\!\!P$.27)

Advanced shooting modes

The 4 shooting modes below will help you take advantage of a variety of advanced shooting techniques.

P Program shooting

A Aperture priority shooting

Allows you to set the aperture manually. The camera sets the shutter speed automatically. (12 P. 30)

S Shutter priority shooting

Allows you to set the shutter speed manually. The camera sets the aperture automatically. (13) P. 32)

Manual shooting

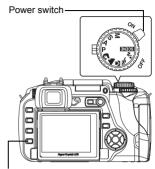
Allows you to set the aperture and shutter speed manually. (IRP P. 34)

How to set the functions

Control panel screen display

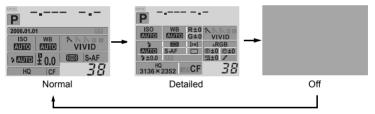
When the power switch is set to **ON**, the control panel screen (shooting information) is displayed on the LCD monitor.

- The display changes each time the **INFO** button is pressed.
- When the mode dial is set to SCENE, the scene menu is displayed. (I P. 27)



INFO button

Control panel screen



How to make function settings

There are three basic ways to make function settings with this camera.

- Setting while looking at the control panel screen (IR P. 21)
- Setting using direct buttons (
- Setting on the menu (IRP P. 23)

Control dial

Setting functions using the control panel screen

Select an item on the control panel screen and change the setting.

1 Press the imes button.

• The cursor on the control panel screen lights.



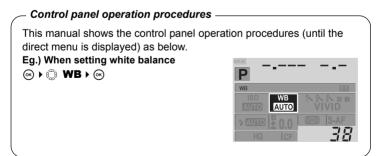
- 2 Use the arrow pad to move the cursor to the function you want to set. Eg.) When setting white balance
- **3** Turn the control dial to change the setting.
 - Pressing the

 button while the item is being selected displays the menu for that function.

 Turn the control dial to change the setting.
 - If you do not operate the control dial within a few seconds, your setting will be confirmed and the control panel screen will be restored.



Direct menu



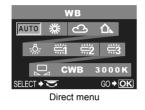
Setting functions using direct buttons

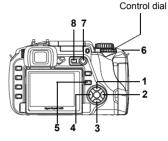
This camera is equipped with direct buttons where functions have been assigned and can be set quickly.

Press the button for the function you want to set.

• The direct menu is displayed.

Eg.) When setting white balance





2 Use the control dial to set.

- If you do not operate the control dial within a few seconds, your setting will be confirmed and the control panel screen will be restored. (IS "Button timer" P. 117) You can also confirm your setting by pressing the (a) button.
- You can also confirm your setting on the viewfinder when setting using the direct buttons.



Viewfinder

List of direct buttons

The functions assigned to buttons are as shown below.

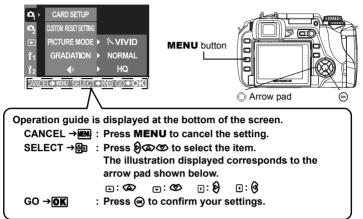
Direct buttons		Direct buttons	Function	Ref. page
1	WB	White balance button	Sets white balance	P. 81
2	AF	Focus mode button	Sets focus mode	P. 66
3	ISO	ISO button	Sets ISO sensitivity	P. 78
4		Metering button	Sets metering mode	P. 73
5	Ð	Drive button	Sequential shooting/Self- timer/Remote control	P. 58, P. 59 P. 61
6	M	Exposure compensation button	Exposure compensation	P. 75
7	IOI	Live view button	Live view function	P. 36
8	A/B	A/B mode button	Live view mode switching	P. 36

1

Setting on the menu

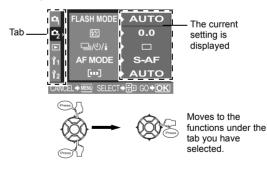
1 Press the **MENU** button.

• The menu is displayed on the LCD monitor.



2 Use 🗘 to select a tab.

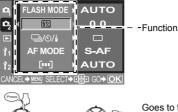
• The functions are categorized under tabs.



Types of tabs

- Sets shooting functions.
- Sets shooting functions.
- Sets playback functions.
- 1 Customizes shooting functions.
- 12 Sets functions that allow you to use the camera efficiently.

3 Select a function.



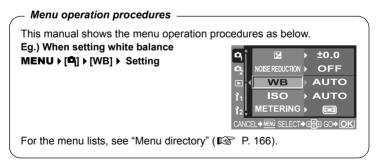
Goes to the selected function's setting screen (some functions can be set on the menu).

4 Select a setting.



5 Press (repeatedly until the menu disappears.

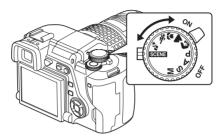
• The normal shooting screen is restored.



2 Selecting the right mode for shooting conditions

Shooting modes

This camera has different shooting modes, which can be switched using the mode dial.



Easy shooting modes

- Select according to the shooting scene. The camera sets the appropriate shooting conditions automatically.
 - Portrait
 - Landscape
 - Macro
 - 💸 Sport
 - Night scene and portrait

SCENE 20 different scene modes are available. IN "Scene mode" (P. 27)

Advanced shooting modes

- For more advanced shooting and greater creative control, you can set the aperture value and shutter speed.
 - P Program shooting (IP P. 28)
 - A Aperture priority shooting (
 - S Shutter priority shooting (
 - Manual shooting (I P. 34)

Setting

Set the mode dial to the mode you want to use.

• For SCENE, see IN "Scene mode" (P. 27).

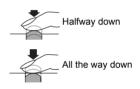


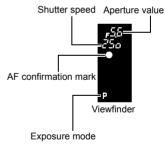
Shooting

For **A/S/M**, set the shutter speed or aperture value first. **I**S[∞] **A**: Aperture priority shooting" (P. 30), **S**: Shutter priority shooting" (**I**S[∞] P. 32), **M**: Manual shooting" (**I**S[∞] P. 34)

Press the shutter button halfway down to focus and press it all the way down to shoot the picture.

 When the shutter button is pressed halfway down, the diagram on the right is displayed in the viewfinder.





Scene mode

When you select a mode to suit the shooting situation, the camera optimizes the settings for the shooting conditions. Unlike the mode dial's scene mode, most functions cannot be changed.

1 Set the mode dial to SCENE.

• The scene menu is displayed.

• A description and sample image of the selected mode is displayed.

3 Press the 🛞 button.

- The camera enters the shooting stand-by mode.
- To change the setting, press the
 button again. The scene menu is displayed.

Types of scene modes

lcon	Mode	lcon	Mode
	1 PORTRAIT	Ę	11 MACRO
	² LANDSCAPE	×.	12 NATURE MACRO
	³ LANDSCAPE+ PORTRAIT	Ψ	13 CANDLE
~	4 NIGHT SCENE	ě.	14 SUNSET
2	5 NIGHT+PORTRAIT		15 FIREWORKS
Ř «	6 CHILDREN	a	16 DOCUMENTS
*	7 SPORT	Π	17 PANORAMA
HI	⁸ HIGH KEY	*	18 BEACH & SNOW
LOW	9 LOW KEY	••	19 UNDER WATER WIDE
(#)	10 D IMAGE STABILIZATION	ð	20 UNDER WATER MACRO

P: Program shooting

The camera sets the optimum aperture value and shutter speed automatically according to the subject brightness.

You can also perform program shift as needed to change the combination of aperture and shutter speed while keeping the correct EV (exposure value).

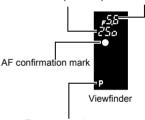
Set the mode dial to P.

Control panel screen display





Aperture value



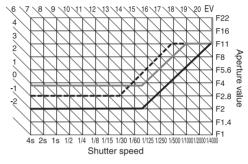
Exposure mode

Shutter speed

Aperture values and shutter speeds in the ${m P}$ mode

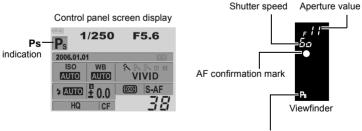
In the **P** mode, the camera is programmed such that the aperture value and shutter speed are automatically selected according to the subject's brightness as shown below. The program line diagram varies with the type of lens mounted.

- When using the ED 50 mm F2 MACRO lens (Eg. when EV is 7, the aperture value is set to F2 and the shutter speed to 1/30.)
- When using the 14 mm - 54 mm F2.8 -3.5 zoom lens (focal length: 54 mm)
- When using the 14 mm - 54 mm F2.8 -3.5 zoom lens (focal length: 14 mm)



Program shift (**Ps**)

By turning the control dial in the **P** mode, you can change the combination of aperture and shutter speed while maintaining the optimum exposure. The program shift setting will not be canceled after shooting. To cancel program shift setting, turn the control dial so that the viewfinder's or control panel screen's exposure mode indication **Ps** changes to **P** or turn off the power. Program shift is not available when you are using a flash.



Exposure mode

A: Aperture priority shooting

The camera sets the optimum shutter speed automatically for the aperture value you have selected. When you open the aperture (decrease the aperture value), the camera will focus within a shorter range (shallow depth of field) and produce a picture with a blurred background. When you close the aperture (increase the aperture value), the camera will focus within a longer range. Use this mode when you wish to add changes to the background representation. Before shooting, you can use the preview function to check how the background will look in your picture. If "Preview function" (P. 38)



When the aperture value (f-number) is decreased

Set the mode dial to **A** and turn the control dial to set the aperture



When the aperture value (f-number) is increased





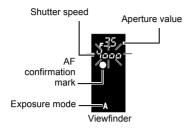
Open the aperture (f-number is decreased)



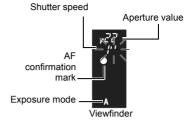
Close the aperture (f-number is increased)

value.

Display in the viewfinder when the shutter button is pressed halfway



Overexposed when the shutter speed indication is blinking. Increase the aperture value (f-number).



Underexposed when the shutter speed indication is blinking. Decrease the aperture value (f-number).

TIPS

The shutter speed indication does not stop blinking after the aperture value is changed

- → If the shutter speed indication is blinking when set to a high speed, set the ISO sensitivity to a lower value or use a commercially available ND filter (for adjusting the amount of light). IS "ISO Setting the desired sensitivity to light" (P. 78)
- → If the shutter speed indication is blinking when set to a lower speed, set the ISO sensitivity to a higher value. IS "ISO Setting the desired sensitivity to light" (P. 78)

To change the EV step interval:

→ In the menu, set the EV step interval to 1/3 EV, 1/2 EV or 1 EV. IS "EV step" (P. 108)

To check the depth of field with the selected aperture value:

→ Refer to "Preview function" (P. 38).

S: Shutter priority shooting

The camera sets the optimum aperture value automatically for the shutter speed you have selected. Set the shutter speed depending on the type of effect you want. A higher speed shutter allows you to capture a fast-moving subject without blur, and a slower shutter speed blurs a moving subject, creating a feeling of speed or motion.



A fast shutter speed can freeze a fast action scene without any blur.



A slow shutter speed will blur a fast action scene. This blurring will give the impression of dynamic motion.

Set the mode dial to **S** and turn the control dial to set the shutter speed.

S 1	/250	
2006.01.0	1	A
ISO	WB	A 2 3 00
AUTO	AUTO	VIVID
¢ AUTO	± 0.0	S-AF
HQ	CF	38

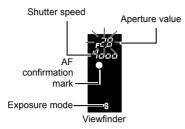


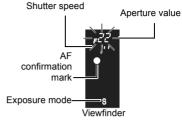
Slower shutter speed



Faster shutter speed

Display in the viewfinder when the shutter button is pressed halfway





If the aperture value indication at the minimum value is blinking^{*}, the correct exposure has not been attained (underexposed). Lower the shutter speed.

If the aperture value indication at the maximum value is blinking^{*}, the correct exposure has not been attained (overexposed). Raise the shutter speed.

* The aperture value at the moment when its indication blinks varies with the lens type and focal length of the lens.

TIPS

The picture looks blurred

→ The possibility of camera shake spoiling your picture increases greatly during macro or ultra-telephoto shooting. Raise the shutter speed or use a monopod or tripod to stabilize the camera.

The aperture value indication does not stop blinking after the shutter speed is changed

- → If the aperture value indication at the maximum value is blinking, set the ISO sensitivity to a lower value or use a commercially available ND filter (for adjusting the amount of light). IS "ISO Setting the desired sensitivity to light" (P. 78)
- → If the aperture value indication at the minimum value is blinking, set the ISO sensitivity to a higher value. ISO Setting the desired sensitivity to light" (P. 78)

To change the EV step interval:

→ In the menu, set the EV step interval to 1/3 EV, 1/2 EV or 1 EV. IS "EV step" (P. 108)

M: Manual shooting

Allows you to set the aperture and shutter speed manually. You can check how much it differs from the appropriate exposure by using the exposure level indicator. This mode gives you more creative control, allowing you to make whatever settings you like, regardless of the correct exposure. Bulb shooting is also possible, allowing you to take astronomical or fireworks pictures.

Set the mode dial to ${\pmb M}$ and turn the control dial to set the value.

• To set the shutter speed : Turn the control dial. To set the aperture value : Turn the control dial

while holding down the ☑ (exposure compensation) button.

Setting **[DIAL]** allows you to change to the opposite settings. I allows "Customizing the control dial's function" (P. 110)

- The range of aperture values available varies with the lens type.
- The shutter speed can be set to 1/4000 60" (sec.) or [BULB].
- The aperture value and shutter speed change in 1/3 EV increments as the dial is turned. You can also change the step with the customized settings.
 "EV step" (P. 108)



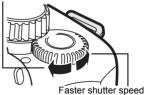


Open the aperture (f-number is decreased)

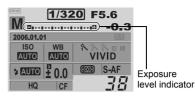


Close the aperture (f-number is increased)

Slower shutter speed



 The exposure level indicator appears on the control panel screen, showing the difference (ranging from -3 EV to +3 EV) between the exposure value calculated by the currently selected aperture and shutter speed compared to the exposure value considered optimum by the camera.



Underexposure

Overexposure

Noise in images

During shooting at slow shutter speeds of 30 or more seconds, noise may appear on-screen or the image may be overly bright in the top left part of the screen. These phenomena are caused when current is generated in those sections of the image pickup device that are not normally exposed to light, resulting in a rise in temperature in the image pickup device or image pickup device drive circuit. This can also occur when shooting with a high ISO setting in an environment exposed to heat. The noise reduction function helps reduce this noise.



Bulb shooting

→ You can take a picture with a bulb exposure time in which the shutter stays open as long as you hold down the shutter button (up to 8 minutes). Set the shutter speed to [BULB] in the M mode. Bulb shooting can also be done using an optional remote control (RM-1).

■ "Bulb shooting on the remote control" (P. 63)

TIPS

The picture looks blurred

→ The use of a monopod or tripod is recommended when taking a picture at slow shutter speed.

To change the EV step interval:

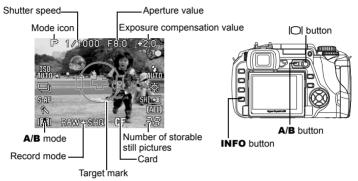
→ In the menu, set the EV step interval to 1/3 EV, 1/2 EV or 1 EV. ISF "EV step" (P. 108)

Live view

It is possible to display the subject in the LCD monitor and check its composition, or shoot while viewing an enlarged display on the LCD monitor.

Press the |O| button.

• The subject is displayed on the LCD monitor. The display for shooting information can be turned off by pressing the **INFO** button.



There are two modes in live view; A mode and B mode (MF lock). It is possible to switch according to the shooting situation.

Press the A/B button to display the menu. Turn the control dial to select, then press the B button.

Supported mode	A mode	B mode
Shooting modes (mode dial: 🛐, 📥, 🖏, 💸, 🍫)	~	√
Shooting modes (P , A , S , M)	\checkmark	√
Scene mode (SCENE)	\checkmark	_
Sequential shooting	~	√
Enlarged display	—	\checkmark

✓: Supported —: Not supported

Notes

- When using A mode, as accurate metering may not be obtained, close the eyepiece shutter. During operation in A mode, settings will not be displayed in the viewfinder.
- When using B mode, if there is a high-intensity light source within the screen, the image may be displayed darker but will be recorded normally.

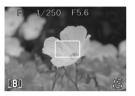
Enlarged display operation (B mode)

It is possible to enlarge the subject 10 times for display. The focus can also be confirmed or adjusted on the enlarged picture.

1 Press the **INFO** button to switch to the screen for enlarged display.

$\textbf{2} \quad \textbf{Use} \textcircled{\texttt{O}} \text{ to move the frame and press the } \textbf{\textcircled{O}} \text{ button.}$

- Area inside the frame is enlarged and displayed.
- Press and hold the \circledast button to return the shifted enlargement frame to the center.





3 Turn the focus ring and focus on the subject.

Notes

- Auto focus cannot be used in B mode.
- If B mode is used over a long period, the temperature of the image pickup device rises causing images with high ISO sensitivity to appear noisy and unevenly colored. Either lower the ISO sensitivity or turn off the camera for some time.
- Replacing the lens will cause live view to stop.
- It is not possible to change the settings using the direct buttons.

Ruled lines display

When the subject composition is confirmed on the LCD monitor, ruled lines can be displayed. Set the displays for when the live view is A mode and when it is B mode.

MENU ▶ [[1] ▶ [FRAME ASSIST] [A MODE] OFF PASSPORT [□] PASSPORT [□] [B MODE] OFF GOLDEN SECTION

> GRID SCALE

FRAME ASSIST A MODE → 0FF B MODE → 0FF CANCEL→ MENU SELECT→ 문D GO → OKI Selecting the right mode for shooting conditions

Preview function

If you operate the aperture, the viewfinder shows the actual depth of field (the distance from the nearest to the furthest point of perceived "sharp" focus) in a picture, with the selected aperture value. For the preview function to work by pressing the _____ button, it is necessary to set the function of the _____ button on the menu beforehand.

🕼 "🖵 button function" (P. 111)

Press the button to use the preview function.



3 Various shooting functions

If correct focus cannot be obtained (Focus lock)

The camera's auto focus may not able to focus on the subject in the cases shown below (e.g. when the subject is not in the center of the frame, when the subject has lower contrast than its surroundings, etc.). If this happens, the easiest solution is to use focus lock.

How to use focus lock (if the subject is not positioned in the center of the frame)

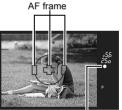
- Adjust the AF frame with the subject to be focused and press the shutter button halfway until the AF confirmation mark lights up.
 - The focus is locked. The AF confirmation mark and the AF focusing frame light up in the viewfinder.
 - If the AF confirmation mark blinks, press the shutter button halfway again.
 - The control panel screen disappears.

2 While pressing the shutter button

halfway, move to the desired composition and press the button all

the way.





AF confirmation mark



picture is being stored on the card.

The card access lamp blinks while the

If the subject has lower contrast than its surroundings

If the contrast of the subject is weak, such as when the lighting is insufficient or the subject cannot be seen clearly because of fog, the focus may not be achieved. Focus (focus lock) on a high-contrast object the same distance away as the intended subject, recompose your shot and then take the picture.

Auto bracketing

You can use this function if you are unsure of the exposure or white balance settings and cannot keep changing them to retake the shot. This camera is capable of the following types of auto bracketing:

Auto bracketing	Comparison	Ref. page
AE bracketing	Shoots multiple frames at different exposure values.	P. 41
WB bracketing [*]	Creates frames with different white balances from one shot.	P. 43
MF bracketing	Shoots multiple frames at different focusing points.	P. 44
Flash bracketing	Shoots multiple frames, changing the amount of light emitted by the flash for each shot.	P. 53

* The WB bracketing function can be used at the same time as any of the other bracketing functions.

AE bracketing

The camera automatically shoots a number of pictures at different exposure values for each frame. Even in conditions where correct exposure is difficult to obtain (such as a backlit subject or a scene at dusk), you can pick the picture you prefer from a selected number of frames with a variety of different exposure settings (exposure and compensation values). The pictures are taken in the following order: Picture with optimum exposure, picture adjusted in - direction, and picture adjusted in + direction.

Example: When BKT is set to [3F 1.0EV]



Compensation value: 0.3, 0.7 or 1.0

The exposure compensation value will change if the EV step is changed. The EV step can be changed using the menu. Exposure compensation value can be adjusted within a range of ±1.0.

EV step" (P. 108)

Number of frames: 3

- 1 MENU ▶ [\$] ▶ [AE BKT]
- 2 Use 🗘 to set. [OFF]/[3F 0.3EV]/[3F 0.7EV]/[3F 1.0EV]
- 3 Press the 🐵 button.

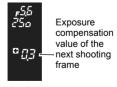


4 Start shooting.

Single-frame shooting

Each time the shutter button is pressed fully, a picture is taken at a different exposure.

. The setting for the next shot is displayed in the viewfinder.



Viewfinder

Sequential shooting

Hold down the shutter button until the selected number of frames are taken. The camera shoots each frame at a different exposure.

 Releasing the shutter button stops auto bracketing shooting. When it stops, [BKT] on the control panel is displayed in blue.

How AE bracketing compensates exposure in each exposure mode

Depending on the selected exposure mode, exposure is compensated in the following way:

- P mode : Aperture value and shutter speed
- A mode : Shutter speed
- S mode : Aperture value
- M mode : Shutter speed

TIPS

To apply AE bracketing to the exposure value you have compensated:

→ Compensate the exposure value, then use the AE bracketing feature. AE bracketing is applied to the exposure value you have compensated.

Notes

 During sequential shooting, if the battery check blinks due to low battery, the camera stops shooting and starts saving the pictures you have taken on the card. The camera may not save all of the pictures depending on how much battery power remains.

WB bracketing

Three images with different white balances (adjusted in specified color directions) are automatically created from one shot. One image has the specified white balance, while the other two are the same image adjusted in different color directions. All three images are saved on the card.

- **1** MENU ▶ [¹] ▶ [WB BKT]
- 2 Use to select the color direction. R-BRed—Blue G-MGreen—Magenta • You can set both color directions.
- 3 Use € to set the EV steps. [OFF]/[3F 2STEP]/[3F 4STEP]/[3F 6STEP]
- 4 Start shooting.
 - When the shutter button is pressed down all the way, images adjusted in specified color directions are automatically created.



🖻 TIPS

To apply WB bracketing to the white balance you have adjusted:

→ Adjust white balance manually, then use the WB bracketing feature. WB bracketing is applied to your white balance adjustment.

Notes

 During WB bracketing, the camera cannot shoot in sequence if there is not enough memory in the camera and card for storing more than the selected number of frames.

MF bracketing

The camera shoots multiple frames, changing the focal point slightly for each frame.

The frames are saved on the card in the following order: the frame with the manually set focal point, the frame with the focal point shifted backward, and the frame with the focal point shifted forward.

1 MENU → [□2] → [MF BKT]

2 Use 🙄 to set.

[OFF]/[5F 1STEP]/[5F 2STEP]/[7F 1STEP]/ [7F 2STEP] EV step: 1STEP, 2STEP Number of frames:5 frames/7 frames

3 Press the ⊛ button.



4 Use MF to adjust the focus, then press the shutter button to take the picture.

- When the shutter button is pressed all the way, the camera shoots frames sequentially; the frame with the manually set focal point, the frame with the focal point shifted backward, and the frame with the focal point shifted forward.
- Depending on the lens used and the shooting conditions, number of frames before and after the frame with the manually set focal point may be different.
- When the subject is not in the center of the frame or when the contrast is weak, the number of frames before and after may be slanted.
- When using this function, mount the camera on a tripod.

Flash shooting

Flash mode

The camera sets the flash mode according to various factors such as firing pattern and flash timing. Available flash modes depend on the exposure mode. The flash modes are available to optional external flashes.

Auto flash AUTO

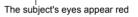
The flash fires automatically in low light or backlight conditions. To shoot a subject with backlighting, position the AF frame over the subject.

Red-eye reduction flash (O)

In the red-eve reduction flash mode. a series of pre-flashes are emitted just before the regular flash fires. This helps accustom the subject's eves to the bright light and minimizes the red-eye phenomenon.

Notes

- 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 preflashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.





Slow synchronization (1st curtain) **\$**SLOW

The slow synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a subject against a night scene, fast shutter speeds can make the background too dark. Slow synchronization allows you to capture both the background and the subject. Since the shutter speed is slow, be sure to stabilize the camera by using a tripod so as not to cause the picture to be blurred.





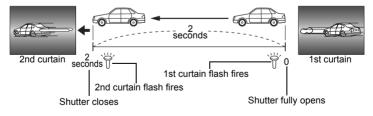
1st curtain

Usually, 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.

Slow synchronization (2nd curtain) \$\$LOW2

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

When the shutter speed is set to 2 sec.



Slow synchronization (1st curtain)/Red-eve reduction flash () SLOW

While using slow synchronization with flash shooting, you can also use this function to achieve red-eve reduction. When shooting a subject against a night scene, this function allows you to reduce the red-eve phenomenon. As the time from emitting pre-flashes to shooting is long in 2nd curtain synchronization, it is difficult to achieve red-eve reduction. Hence, only 1st curtain synchronization setting is available.

Fill-in flash

The flash fires regardless of the light conditions. 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).



Various shooting functions

Notes

• When the flash fires, the shutter speed is set to 1/180 sec. or less. When shooting a subject against a bright background with the fill-in flash, the background may be overexposed. In this case, use the optional FL-50 or FL-36 external flash and shoot in the Super FP flash mode.

Flash off 🚯

The flash does not fire.

Even in this mode, the flash can be used as an AF illuminator when it is raised. I "AF illuminator" (P. 70)

Flash synchronization speed

Shutter speed can be changed when the built-in flash fires. I Speed synchronization" (P. 109)

Manual flash

This allows the built-in flash to output a fixed amount of light. With **[MANUAL FLASH]** (\mathbb{R} P. 109) set to **[ON]**, the amount of light can be selected in the flash mode setting.

To shoot with manual flash, set the f value on the lens based on the distance to the subject.

Ratio of amount of light	GN: Guide number
FULL(1/1)	13
1/4	6
1/16	3
1/64	1.5

Calculate the f value on the lens using the following formula.

Aperture (f value) =

GN x ISO sensitivity

Distance to the subject (m)

ISO sensitivity

ISO value	100	200	400	800	1600
ISO sensitivity	1.0	1.4	2.0	2.8	4.0

Flash shooting

Flash modes available in different exposure modes

Expo- sure mode	Control panel screen/menu display	Flash mode	Condi- tions to timing	Conditions to fire the flash	Shutter speed restric- tions
	AUTO	Auto flash Auto flash (red-eye reduction)	1st curtain	Fires automatically in dark/backlit *1 conditions	1/30 sec 1/180 sec.
Р	\$ Fill-in flash			Always fires	60 sec 1/180 sec.
Α	۲	Flash off	—	—	—
ด	⊚ SLOW	Slow synchronization (red-eye reduction)	1st curtain		
	\$slow	Slow synchronization (1st curtain)			
★ <u>\$</u> *2	\$ SLOW2	Slow synchronization (2nd curtain)	2nd curtain		60 sec
×	\$ FULL	Manual flash (FULL)		Always fires	1/180 sec.
	\$ 1/4	Manual flash (1/4)			
	\$ 1/16	Manual flash (1/16)	1st curtain		
	\$ 1/64	Manual flash (1/64)			
	\$	Fill-in flash			
	©\$	Fill-in flash (red-eye reduction)			
	۲	Flash off	—	—	—
S M	\$ SLOW2	Fill-in flash/Slow synchronization/ (2nd curtain)	2nd curtain		
IVI	\$ FULL	Manual flash (FULL)		Always fires	60 sec 1/180 sec.
	\$ 1/4	Manual flash (1/4)	1st curtain		
	\$ 1/16	Manual flash (1/16)			
	\$ 1/64	Manual flash (1/64)			

Setting the flash mode

🐵 🕨 🗘 (Flash mode)

Turn the control dial to select the setting.

• Pressing the (in) button displays the direct menu, from which the setting can also be made.

■ "Flash modes available in different exposure modes" (P. 49)





Menu setting procedure



MENU ▶ [♣] ▶ [FLASH MODE] ▶ Setting

3

Using the built-in flash

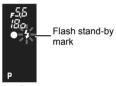
If you shoot a subject using a lens that is wider than 14 mm (equivalent to 28 mm on a 35 mm film camera), the light emitted by the flash may produce a vignette effect. Whether or not vignetting occurs also depends on lens type and shooting conditions (such as distance to the subject).

1 Press the **\$**UP button to raise the flash.



2 Press the shutter button halfway.

- The **\$** (flash stand-by) mark lights when the flash is ready to fire. If the mark is blinking, the flash is charging. Wait until charging is complete.
- **3** Press the shutter button all the way.



Viewfinder

Flash intensity control

This adjusts the amount of light emitted by the flash.

In some situations (e.g., when shooting small subjects, distant backgrounds, etc.), you may get better results by adjusting light emission. It is useful when you intend to increase the contrast (distinction between light and dark) of images to make the images more vivid.

MENU ▶ [♣] ▶ [∰]

Use 🛱 to set the compensation value.



Notes

- This does not work when the flash control mode on the electronic flash is set to MANUAL.
- If light emission is adjusted on the electronic flash, it will be combined with the camera's light emission setting.
- When [[22+2] on the menu is set to [ON], it will be added to the exposure compensation value.

3

Flash bracketing

The camera shoots multiple frames, changing the amount of light emitted by the flash for each shot.

MENU ▶ [♣] ▶ [FL BKT]

Use 🗊 to set. [OFF]/[3F 0.3EV]/[3F 0.7EV]/[3F 1.0EV]

- You can change the EV step interval in the custom menu. I "EV step" (P. 108)
- When the shutter button is pressed, the camera shoots 3 frames at a time in the following order; Frame with optimum amount of light emission, frame adjusted in direction and frame adjusted in + direction.



Various shooting functions

External electronic flashes (optional)

In addition to the camera's built-in flash capabilities, you can use any of the external flash units specified for use with this camera. This enables you to take advantage of a wider variety of flash shooting techniques to suit different shooting conditions.

The external flashes communicate with the camera, allowing you to control the camera's flash modes with various available flash control modes, such as TTL AUTO and Super FP flash. The flash can be mounted on the camera by attaching it to the camera's hot shoe.

For details, refer to the external flash's manual.

Functions available	e with e	external	flash	units
---------------------	----------	----------	-------	-------

Optional flash	FL-50	FL-36	FL-20	RF-11	TF-22
Flash control mode	TTL AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL		TTL AUTO, AUTO, MANUAL	TTL AUTO, MANUAL	
GN (Guide number) (ISO100)	GN50 (85 mm [*]) GN28 (24 mm [*])		GN20 (35 mm [*])	GN11	GN22

* Calculated based on 35 mm film camera

() Notes
The FL-40 optional flash cannot be used.

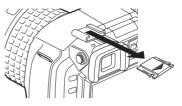
Using the external electronic flash

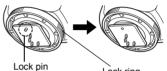
Be sure to attach the flash to the camera before turning on the flash's power.

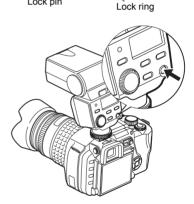
- 1 Remove the hot shoe cover by sliding it in the direction indicated by the arrow in the illustration.
 - Keep the shoe cover in a safe place to avoid losing it, and put it back on the camera after flash shooting.
- 2 Attach the electronic flash to the hot shoe on the camera.
 - · If the lock pin is protruding, turn the shoe lock ring as far as it will go in the direction opposite to LOCK. This will pull the lock pin back inside.

3 Turn on the flash.

- · When the charge lamp on the flash lights up, charging is complete.
- · The flash will be synchronized with the camera at a speed of 1/180 sec or less
- 4 Select a flash mode.







5 Select the flash control mode.

• TTL AUTO is recommended for normal use.

6 Press the shutter button halfway.

- Shooting information such as ISO sensitivity, aperture value, and shutter speed is communicated between the camera and flash.
- **\$** lights up in the viewfinder.
- 7 Press the shutter button all the way.

Viewfinder



\$ blinks: Flash charging lights up: Charging is complete 3

Notes

- When shooting with the flash control mode set to TTL AUTO, pre-flashes are emitted before firing the regular flash.
- When the flash control mode is set to TTL AUTO, or when shooting a subject at a distance with ISO set to 400 or higher, flash control accuracy will decrease.

Super FP flash

Super FP flash is available with the FL-50 or FL-36. Super FP flash timing is longer than standard flash timing. This means that pictures can be taken at a higher shutter speed than is possible with normal flashes.

Fill-in flash shooting with the aperture open (such as in outdoor portrait shooting) is also possible with Super FP flash. For details, refer to the external flash's manual.

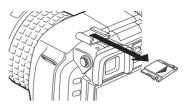
Super FP flash							
P							
ISO AUTO							
4		[00]	sR	GB			
AUTO	S-AF		S±0	©±0			
\$±0.0			RGB ±0	8			
HQ 3136 × 3							

Detailed display on the control panel

Using commercially available flashes

Use the \mathbf{M} shooting mode on the camera when using any commercially available flash except for the flashes specified for this camera. For details on non-specified commercial flashes, see "Non-specified commercial flashes" (\mathbf{I} P. 57).

- 1 Remove the hot shoe cover to connect the flash unit to the camera.
- 2 Set the shooting mode to M mode, then set the aperture value and shutter speed.
 - Set the shutter speed to 1/180 sec. or slower. If the shutter speed is faster than this, commercially available flashes cannot be used.
 - A slower shutter speed may produce blurred images.



- 3 Turn on the flash.
 - Be sure to turn on the flash after attaching the flash unit to the camera.
- 4 Set the ISO value and aperture value on the camera to match the flash control mode on the flash.
 - Refer to the flash's manual for instructions on how to set its flash control mode.

Notes

- The flash fires each time the shutter is released. When you do not need to use the flash, turn off the flash's power.
- Check beforehand that the flash you are using is synchronized with the camera.

Non-specified commercial flashes

- 1) Exposures when using a flash require that adjustments be made on the flash. If a flash is used in the auto mode, match it with the f value and ISO sensitivity settings on the camera.
- 2) Even if the flash auto f value and ISO sensitivity are set the same as on the camera, the correct exposure may not be obtained depending on the shooting conditions. In such a case, adjust the auto f value or ISO on the flash or calculate the distance in the manual mode.
- 3) Use a flash with an illumination angle that matches the focal length of the lens. The focal length of the lens for 35 mm film is approximately twice as long as the focal length of the lenses designed for this camera.
- 4) Do not use a flash unit or other accessory TTL flash that has additional communication functions other than the specified flashes, since it may not only fail to function normally, but may also cause damage to the camera's circuitry.

Single-frame shooting/sequential shooting 🖳

Single-frame shooting

1 frame at a time when the shutter button is

Sequential shooting

pressed (normal shooting mode). Shoots 4 frames or more at 3 frames/sec. (in SHQ, HQ or SQ) for as long as the shutter button pressed. Focus and exposure are locked at the first frame. (during S-AF, MF)

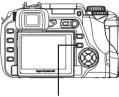
Setting single-frame/sequential shooting

Press the 🖵 (drive) button and set using the control dial.

- Single-frame shooting
- Sequential shooting
- Press the shutter button fully and keep it pressed. The camera will take pictures in sequence until you release the button.
- When settings are made with the 🖵 button, the information is also displayed on the viewfinder.

-,- :Single-frame shooting

- d: Sequential shooting



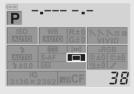




Viewfinder

1-14

Control panel setting procedure



Menu setting procedure



MENU ▶ [♣] ▶ [♣/أ⁄Š] ▶ Setting

Notes

- Sequential shooting is not possible when [NOISE REDUCTION] (I P. 87) is set to [ON].
- During sequential shooting, if the battery check blinks due to low battery, the camera stops shooting and starts saving the pictures you have taken on the card. The camera may not save all of the pictures depending on how much battery power remains.

Self-timer shooting

This function lets you take pictures using the self-timer. You can set the camera to trigger the shutter after either 12 or 2 seconds. Fix the camera securely on a tripod for self-timer shooting.

Setting self-timer

Press the 🖵 (drive) button and set using the control dial.

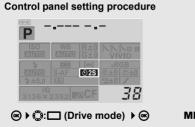
- 312s 12-second self-timer
- Signature Si
- When settings are made with the local button, the information is also displayed on the viewfinder.



25ELF :12-second self-timer







Menu setting procedure P_{1} FLASH MODE > AUTO P_{2} P_{3} P_{1} P_{3} P_{3} P

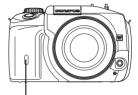


3

Using the self-timer

Press the shutter button all the way.

- · A picture is taken.
- The focus and exposure are locked when the shutter button is pressed halfway.
- When 🕉 12s is selected:
 - First, the self-timer lamp lights up for approximately 10 seconds, then it blinks for approximately 2 seconds and the picture is taken.



Self-timer lamp

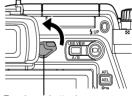
- When (32s is selected: The self-timer lamp blinks for approximately 2 seconds, then the picture is taken.
- To cancel the activated self-timer, press the 🖳 button.

Notes

• Do not press the shutter button while standing in front of the camera; this could result in the subject being out of focus since focusing is performed when the shutter button is pressed halfway.

Eyepiece shutter

When shooting without looking through the viewfinder, turn the eyepiece shutter lever and close the eyepiece shutter so that the light does not enter the viewfinder.



Eyepiece shutter lever

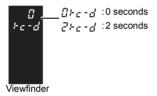
Remote control shooting

By using the optional remote control (RM-1), you can take a picture with yourself in it or a night scene without touching the camera. The camera can be set to trigger the shutter either right away or 2 seconds after the shutter button on the remote control is pressed. Bulb shooting is also possible when using the optional remote control.

Setting the remote control

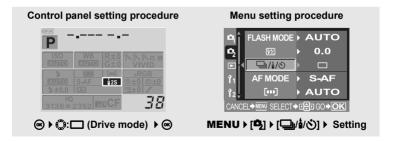
Press the 🖵 (drive) button and set using the control dial.

- **bos** Triggers the shutter right away.
- 2s Triggers the shutter 2 seconds after.
- When settings are made with the
 button, the information is also displayed on the viewfinder.









Various shooting functions

Using the remote control

Mount the camera securely on a tripod, point the remote control at the remote control receiver on the camera and press the shutter button on the remote control.

- When to s is selected: The focus and exposure are locked, the remote control lamp blinks and the picture is taken.
- When 2s is selected:

The focus and exposure are locked, the remote control lamp blinks, then after approximately 2 seconds the picture is taken.

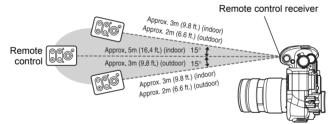


Remote control lamp Remote control receiver

Transmitted signal effective area

Point the remote control at the remote control receiver of the camera within the effective area as shown below.

Powerful lighting such as direct sunlight, fluorescent light or devices emitting electrical or radio waves could narrow the effective area.



🖻 TIPS

The remote control lamp does not blink after the shutter button on the remote control is pressed

- → The transmitted signal may not be effective if the remote control receiver is exposed to powerful lighting. Move the remote control closer to the camera and press the shutter button on the remote control again.
- → The transmitted signal may not be effective if the remote control is too far from the camera. Move the remote control closer to the camera and press the shutter button on the remote control again.
- → There is signal interference. Change the channel as described in the remote control's manual.

To cancel the remote control shooting mode:

→ The remote control shooting mode will not be canceled after shooting. Set to one of the other drive modes.

To use the shutter button on the camera in the remote control shooting mode:

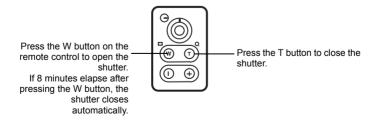
→ The shutter button on the camera still works even in the remote control shooting mode.

Notes

- The shutter will not be released if the subject is not in focus.
- Under bright light conditions, the remote control lamp may be difficult to see, making it hard to determine whether or not the picture has been taken.
- · Zoom is not available on the remote control.

Bulb shooting on the remote control

Set the mode dial to M, then set the shutter speed to [BULB].



Panorama shooting

You can enjoy panorama shooting easily using the OLYMPUS xD-picture card. Using OLYMPUS Master (provided CD-ROM) to join a few images shot where the subject's edges overlap, you can create a single panorama composite image.

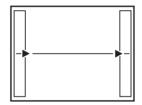
Panorama shooting is possible up to a maximum of 10 images.



 Try your best to include the common parts of the overlapping images when shooting the subject.

Shooting

- 1 Set the mode. IS "Scene mode" (P. 27)
 - It switches to live view A mode.
- 2 Use the specify the direction for joining, then shoot the subject with the edges overlapping.
 - ③: Joins the next image to the right.
 - 3: Joins the next image to the left.
 - ③: Joins the next image to the top.
 - Si Joins the next image to the bottom.
 - Shoot while changing the composition such that the subject overlaps.



- The focus, exposure, etc. will be determined in the first image.
- The 🛅 (warning) mark will be displayed after you have finished taking 10 shots.
- \bullet Pressing the button before shooting the first frame returns to the scene mode selection menu.
- Pressing the is button in the midst of shooting ends the sequence of panorama shooting, and allows you to continue with the next one.

Notes

- Panorama shooting cannot be done if the OLYMPUS xD-picture card is not loaded in the camera.
- During panorama shooting, the image previously taken for position alignment will not be retained. With the frames or other markers for display in the images as a guide, set the composition such that the edges of the overlapping images overlap within the frames.

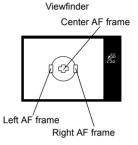
AF frame selection

Normally, the camera measures the distance to the subject using the 3 AF frames in the viewfinder and selects the most appropriate point. This function allows you to select only one AF frame.

[AUTO] or [•••] (Auto)
Focuses using the 3 AF frames.
[•] Focuses using the left AF frame.
[•] Focuses using the center AF frame.
[•] Focuses using the right AF frame.

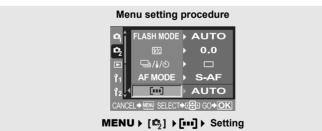
Use the control panel screen to set.

⊗ ▶ ② AF frame ▶ ⊗ [AUTO]/[•]/[•]/[•]/[•]









: Focusing is performed once when the shutter
button is pressed halfway.
: The camera repeats focusing while the shutter
button remains pressed halfway.
: Manually performs focusing.

Press the AF (focus mode) button and set using the control dial.

[S-AF]/[C-AF]/[MF]/[S-AF+MF]/[C-AF+MF]

"S-AF (single AF) shooting" (P. 67) "Simultaneous use of S-AF mode and MF mode (S-AF+MF)" (P. 67) "C-AF (continuous AF) shooting" (P. 68) "Simultaneous use of C-AF mode and MF mode (C-AF+MF)" (P. 68) "Manual focus (MF)" (P. 69)

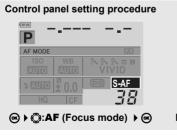


AF button

• When settings are made with the AF button, the information is also displayed on the viewfinder

Viewfinder







CANCEL + MENU SELECT + CO+ OK MENU ▶ [□] ▶ [AF MODE] ▶ Setting

S-AF (single AF) shooting

Focusing is performed once when the shutter button is pressed halfway.

If focusing fails, release your finger from the shutter button and press it halfway again. This mode is suitable for taking pictures of still subjects or subjects with limited movement.

Press the shutter button halfway.

- · When the focus is locked, the AF confirmation mark lights up.
- · A beep sound is output when the subject is in focus

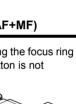
Simultaneous use of S-AF mode and MF mode (S-AF+MF)

This function allows you to fine-adjust focus manually by turning the focus ring after AF is performed in the S-AF mode. When the shutter button is not pressed, MF operation is available.

· You can fine-adjust the focus with the focus ring if you have pressed the shutter button halfway and AF is focused. You can also fine-adjust the focus with the focus ring when the shutter button is not pressed halfway.



• If the shutter button is pressed again after fine-adjusting focus with the focus ring, the AF is activated and your adjustments are canceled.



Focus ring

Viewfinder

Focusing functions



AF confirmation mark

C-AF (continuous AF) shooting

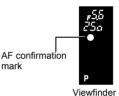
The camera repeats focusing while the shutter button remains pressed halfway. When the subject is in motion, the camera focuses on the subject in anticipation of its movement (Predictive AF). Even if the subject moves or you change the composition of the picture, the camera continues trying to focus.





Press the shutter button halfway and keep it in this position.

- When the subject is in focus and locked, the AF confirmation mark lights up.
- The AF frame does not light up, even when the subject is in focus.
- The camera repeats focusing. Even if the subject moves or even if you change the composition of the picture, focusing is tried continuously.



 A beep sound is output when the subject is in focus. The beep sound is not output after the third continuous AF operation, even when the subject is in focus.

Simultaneous use of C-AF mode and MF mode (C-AF+MF)

Focus with the focus ring and press the shutter button halfway to activate C-AF mode.

- While the shutter button is kept pressed, MF mode is not activated.
- When the shutter button is not pressed, MF mode is available.

Another way to adjust focus manually in C-AF mode

→ You can set the AEL/AFL button to operate C-AF with the AEL/AFL mode settings. IS "AEL/AFL mode" (P. 106)

Notes

• If the shutter button is pressed again after fine-adjusting focus with the focus ring, the AF is activated and your adjustments are canceled.

Manual focus (MF)

This function allows you to manually focus on any subject while looking through the viewfinder.

Adjust the focus using the focus ring.





Live view

You can use the LCD monitor to adjust the focus. Press the IOI button and when the subject is displayed in the LCD monitor, press the **A/B** button.

Rotational direction of the focus ring

You can select the rotational direction of the focus ring to suit your preference for how the lens adjusts to the focusing point. I "Focus ring" (P. 112)

Focus aid

When you focus the lens on a subject manually (by turning the focus ring), the AF confirmation mark lights. When 3 AF frames are selected, the camera performs focusing in the center AF frame.

AF illuminator

The built-in flash can function as an AF illuminator. This helps with focusing in low-light conditions in the AF mode. To use this function, raise the flash.

- 1 MENU ▶ []1] ▶ [AF ILLUMINATOR]
- 2 Use 🕲 to select [ON] or [OFF].
- 3 Press the 👁 button.



4

Shutter release priority

Normally, this camera does not release the shutter while the AF is operating or the flash is charging. If you want to release the shutter without waiting until these operations have completed, use the setting below. You can set release priority in S-AF ($\mathbb{I} \cong P. 67$) and C-AF ($\mathbb{I} \cong P. 68$) respectively. When **[RELEASE PRIORITY C]** is set to **[ON]**, Predictive AF is not available for the first shot.

1 Follow the steps depending on the focus mode you selected.

S-AF mode MENU ▶ [1] ▶ [RELEASE PRIORITY S]

C-AF mode

MENU ▶ []1] ▶ [RELEASE PRIORITY C]

- 2 Use 🗘 to select [ON] or [OFF].
- 3 Press the ⊛ button.



Selecting the record mode

You can select a record mode in which to take pictures. Choose the record mode that's best for your purpose (printing, editing on a PC, website editing, etc.). For details about record modes and number of pixels, refer to the table on "List of record modes" (

Types of record modes

Record mode allows you to select a combination of pixel count and compression rate for the images you record. An image consists of pixels (dots). When you enlarge an image with a low pixel count, it will be displayed as a mosaic. If an image has a high pixel count, the file size (amount of data) will be larger and the number of storable still pictures will be lower. The higher the compression, the smaller the file size. However, the image will have less clarity when played back.

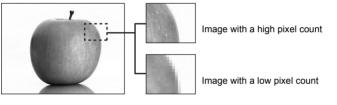


Image becomes clearer

			Quality (Compression)				
	Application	Number of pixels	Uncompressed 1/1	Low compression 1/2.7	High compression 1/4	High compression 1/8	High compression 1/12
8 🖌		3136x2352	TIFF	SHQ		HQ	
kels increases	Select for the print size	2560x1920 1600x1200 1280x960 1024x768					
Number of pixels	For small- sized print and website	640x480	_	SQ			

RAW data

This is unprocessed data that has not undergone changes in white balance, sharpness, contrast or color. To display as an image on the computer, use OLYMPUS Master. It cannot be displayed or selected for print reservation using common software. It is possible to edit images taken with the record mode set to RAW data using this camera. It is "Editing still images" (P. 97)

How to select the record mode

MENU ▶ [♣] ▶ [♣]

Use () to set. [HQ]/[SQ]/[RAW+SHQ]/[RAW+HQ]/ [RAW+SQ]/[RAW]/[TIFF]/[SHQ]



Setting the number of pixels and compression rate

MENU ▶ [Ì1] ▶ [HQ] MENU ▶ [Ì1] ▶ [SQ]

Follow the steps depending on the record mode you have selected.

[HQ]

1) Use () to set the compression rate. [1/4]/[1/8]/[1/12]

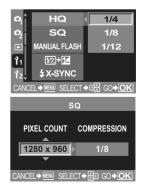
[SQ]

1) Use 🗊 to set the number of pixels.

[2560x1920]/[1600x1200]/[1280x960]/ [1024x768]/[640x480]

2) Use 🙄 to set the compression rate.

[1/2.7]/[1/4]/[1/8]/[1/12]

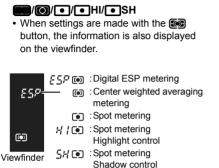


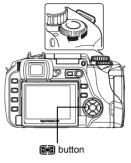
5

Metering mode — Changing the metering system 🖾

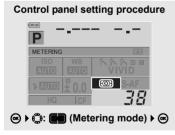
There are 5 ways to measure the subject brightness: Digital ESP metering, Center weighted averaging metering, and three types of spot metering. Select the most suitable mode for the shooting conditions.

Press the **(metering)** button and set using the control dial.



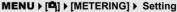


METERING						
			●HI			
•SH	1					
SELECT +						



Menu setting procedure



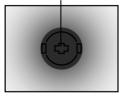


Digital ESP metering

The camera measures the light levels and calculates the light level differences in 49 separate areas of the image. This precision ensures accurate metering even when there is a lot of contrast between the center of the screen and the area around it, such as when shooting backlit subjects or shooting under very bright light. This mode is recommended for general use. Setting the AF synchronized function **[ESP+AF]** to ON operates the metering area with the frame in focused in AF as the center.

Center weighted averaging metering

This metering mode provides the average metering between the subject and the background lighting, placing more weight on the subject at the center. Use this mode when you do not want the light level of the background to affect the exposure value. Metering area



• Spot metering

The camera meters a very small area around the center of the subject, defined by the spot metering area mark in the viewfinder. Use this mode when there is very strong backlight.

•н

Spot metering - highlight control

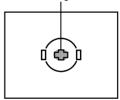
When the overall background is bright, white areas of the image will come out gray if you use the camera's automatic exposure. Using this mode enables the camera to shift to over-exposure, allowing accurate white reproduction. Metering area is the same as spot metering.

SH

Spot metering - shadow control

When the overall background is dark, black areas of the image will come out gray if you use the camera's automatic exposure. Using this mode enables the camera to shift to under-exposure, allowing accurate black reproduction. Metering area is the same as spot metering.

Metering area



Exposure, image and color

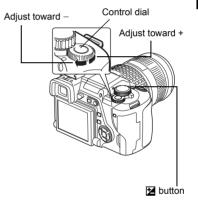
Exposure compensation — Varying the image brightness 🗷

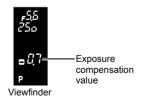
In some situations, you may get better results if you manually compensate (adjust) the exposure value set automatically by the camera. In many cases, bright subjects (such as snow) will turn out darker than their natural colors. Adjusting toward + makes these subjects closer to their real shades. For the same reason, adjust toward – when shooting dark subjects. The exposure can be adjusted in range of ± 5.0 EV.



While holding down the (exposure compensation) button, use the control dial to set the compensation value.

- Adjust toward +: up to +5.0 EV. Adjust toward -: up to -5.0 EV.
- The EV step interval can be selected from 1/3 EV, 1/2 EV or 1 EV.
 "EV step" (P. 108)
- You can change the control dial's functionality so that exposure compensation can be set using the control dial only without pressing the button. IS "Customizing the control dial's function" (P. 110)



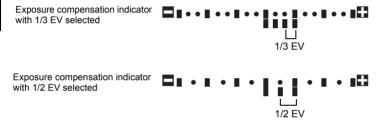




How to read the exposure compensation indicator

Control panel screen





- If the exposure compensation value exceeds the scale of the exposure compensation indicator, red will be displayed on the left and right edges of the indicator.
- The exposure compensation indicator will not be displayed when the exposure is compensated by 0.

Menu	ı setting p	orocedure
2 Γ Ϋ1 Ϋ2, Μ	ISE REDUCTION > VVB > ISO > IETERING >	AUTO AUTO
MENU >	[≏]) [2]	▶ [<mark>1</mark>] Set
	Note	es

• Exposure compensation is not possible in **M** and **SCENE** modes.

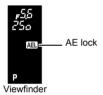
AE lock — Locking the exposure

The metered exposure value can be locked with the **AEL** button (AE lock). Use AE lock when you want a different exposure setting from the one that would normally apply under the current shooting conditions.

Normally, pressing the shutter button halfway locks both AF (auto focus) and AE (automatic exposure), but you can lock the exposure alone by pressing the **AEL** button. The AE lock cannot be used during live view B mode.

Press the **AEL** button at the position where you wish to lock the metering values and the exposure will be locked. As the exposure will be locked while the **AEL** button is being pressed, press the shutter button.





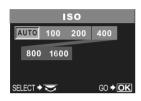
- Releasing the **AEL** button cancels AE lock.
- Using the custom menu, you can set AE lock so that it is not canceled when the **AEL** button is released. **L**S "AEL/AFL mode" (P. 106)

ISO — Setting the desired sensitivity to light

The higher the ISO value, the greater the camera's light sensitivity and the better its ability to shoot in low light conditions. However, higher values may give pictures a grainy appearance.

Press the **ISO** button and set the ISO value using the control dial.

• Setting **[ISO BOOST]** to **[ON]** enables setting up to a higher sensitivity. (







Menu setting procedure



MENU ▶ [4] ▶ [ISO] ▶ Setting

White balance — Adjusting the color tone

Color reproduction differs depending on the light conditions. For instance, when daylight or tungsten lighting is reflected on white paper, the shade of white produced will be slightly different for each.

With a digital camera, white color can be adjusted to reproduce more natural white with a digital processor. This mechanism is called white balance. There are 4 options for setting the WB with this camera.

Auto white balance

This function enables the camera to automatically detect white in images and adjust the color balance accordingly.

Use this mode for general use. If there is no near white color in the picture, the white balance of the image may not be correct. In such a case, use preset WB or one-touch WB to achieve the correct white balance.

Preset white balance

Seven different color temperatures are programmed on this camera covering a variety of indoor and outdoor lighting including fluorescent lights and light bulbs. For example, use preset WB when you want to reproduce more red in the picture of a sunset, or capture a warmer artistic effect under artificial lighting. You can enjoy creating different color tones by trying the different preset WB settings.

Custom white balance

You can change the color temperature of one of the preset WB settings to your liking.

Setting the auto/preset/custom white balance" (P. 81)

One-touch white balance

You can set the optimum white balance for the shooting conditions by pointing the camera at a white object like a sheet of white paper. The white balance achieved with this setting is saved as one of the preset WB settings.

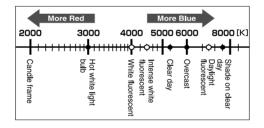
Setting the one-touch white balance" (P. 83)

Color temperature

The spectral balance of different white light sources is rated numerically by color temperature — concept of physics, expressed using the Kelvin (K) temperature scale. The higher the color temperature, the richer the light in bluish tones and the poorer in reddish; the lower the color temperature, the richer the light in reddish tones and the poorer in bluish.

It follows, then, that the color temperatures of fluorescent lights make them unsuitable as artificial light sources. There are gaps in the hues from the color temperatures of fluorescent light. If these differences in hue are small, they can be calculated with color temperature and this is called correlated color temperature.

The 4000K, 4500K and 6600K preset settings in this camera are correlated color temperatures, and should not be considered strictly as color temperatures. Use these settings for shooting conditions under fluorescent lights.



🛯 TIPS

White balance with a flash:

→ Auto WB is recommended when taking pictures with the flash. If you intend to use preset WB, select the color temperature 6000K. When shooting with the flash, be sure to play back your pictures and check the color on the screen. Various conditions affect color temperature and how color is reproduced on the screen.

Notes

• The color temperatures for each light source indicated in the above scale are approximate. They are not an accurate indication of color. For example, the actual sunlight is not exactly 5300K, nor fluorescent lights 4000K.

Setting the auto/preset/custom white balance

WB

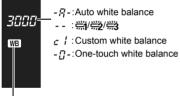
You can adjust the white balance by selecting the appropriate color temperature for the light conditions.

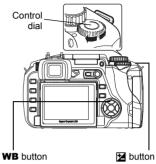
Press the **WB** (white balance) button and set using the control dial.

AUTO/淼/凸/介/染/潇/溦/浣/// CWB

• **CWB** (Custom White Balance) is set by selecting **CWB** and while pressing down the ★ (Exposure Compensation) button, turn the control dial.

Viewfinder



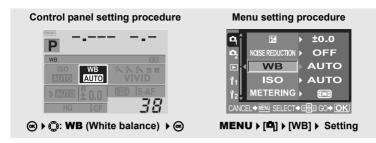




Not displayed when WB is set to AUTO.

WB mode	Light conditions
AUTO	Used for most light conditions (when there is a white portion framed in the viewfinder). Use this mode for general use.
5300K For shooting outdoors on a clear day, or to capture the red sunset or the colors in a fireworks display	
ය 6000K	For shooting outdoors on a cloudy day (when using the flash)
☆ 7500K	For shooting outdoors in the shadows on a clear day
-츴 3000K	For shooting under a tungsten light
₩ 4000K	For shooting under white fluorescent lighting
🛱 4500K	For shooting under a neutral white fluorescent lamp
🛱 6600K	For shooting under a daylight fluorescent lamp
۵J	Color temperature set by one-touch WB. IS "Setting the one-touch white balance" (P. 83)
СШВ	Color temperature set in custom white balance menu. When the value has not been set, it is set to 3000K. The color temperature display changes according to your CWB setting.

Exposure, image and color



TIPS

When subjects with no white appear in the image:

→ In the auto WB setting, if there is no near-white color in the image framed in the screen, the white balance will not be correctly determined. In such a case, try preset WB or one-touch WB settings.

5

Setting the one-touch white balance

This function is useful when you need a more precise white balance than preset WB can provide. Point the camera at a sheet of white paper under the light source you want to use to determine the white balance. The optimum white balance for the current shooting conditions can be saved in the camera. This is useful when shooting a subject under natural light, as well as under various light sources with different color temperatures.

Set [_FUNCTION] to [,_] beforehand. (

- 1 Point the camera at a sheet of white paper.
 - · Position the paper so that it fills the viewfinder Make sure there are no shadows
- 2 While holding down the 🖵 button, press the shutter button.
 - · The one-touch white balance screen appears.
- □ button

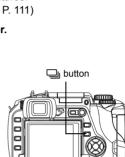
3 Press the 🐵 button.

- · The white balance is registered.
- The registered white balance will be stored in the camera as a preset WB setting. Turning the power off does not erase the data.

₿ TIPS

After pressing the shutter button, [WB NG RETRY] is displayed

 \rightarrow When there is not enough white in the image, or when the image is too bright, too dark or the colors look unnatural, you cannot register the white balance. Change the aperture and shutter speed settings, then repeat the procedure from Step 1.



Exposure, image and color

WB Compensation

This function lets you make fine changes to the auto WB and preset WB settings.

- 1 MENU → [¤] → [WB]
- 2 Use 🗊 to select the white balance to adjust.

	N	/B	
î	AUTO		R±0 G±0
ļ	స్లో: 5300K	Þ	R±0 G±0
	ය 6000K	Þ	R±0 G±0
Ļ	☆⊾ 7500K		R±0 G±0
CAI	NCEL ⇒ MENU SELE	CT	♦⊕ Э G0 ♦ОК



- **3** Use 🕲 to select the color direction.
 - R-B Red-Blue
 - G-M Green-Magenta
 - You can set both color directions.

Adjusting the white balance in the R-B direction

Depending on the original WB conditions, the image will become redder each time you press (2), and bluer each time you press (2).

Adjusting the white balance in the G-M direction

Depending on the original WB conditions, the image will become greener each time you press (2), and more magenta each time you press (2).

- The white balance can be adjusted in 7 increments in each direction (R, B, G and M).
- 4 Press the ∞ button.
 - · Your adjustment is saved.

🛯 TIPS

Checking the white balance you have adjusted:

→ After performing step 3, point the camera at the subject to take test shots. When the AEL button is pressed, sample images that have been taken with the current WB settings are displayed.

Adjusting all WB mode settings at once:

→ Refer to "Compensating all WB" (P. 109).

Picture mode

You can select image tone to create unique image effects. You can also fineadjust image parameters such as contrast and sharpness for each mode.

MENU ▶ [□] ▶ [PICTURE MODE]

The adjustable parameters are classified according to the condition of the picture.

- Contrast/Sharpness/Saturation : Produces vivid colors. [**NATURAL1** : Produces natural colors. [& MUTED] · Produces flat tones Contrast/Sharpness/B&W Filter/Pict. tone
- **IMONOTONE1** : Produces black and white tone. [SEPIA] : Produces sepia tone.

The individual parameters are as follows.

- [CONTRAST] : Distinction between light and dark [SHARPNESS] : Sharpness of the image [SATURATION] : Vividness of the color [B&W FILTER] : Creates a black and white image. The filter color is brightened and the complementary color is darkened [N: NEUTRAL] : Creates a normal black and white image. **IYe: YELLOWI** : Reproduces clearly defined white cloud with natural blue skv.
 - **[Or: ORANGE]** : Slightly emphasizes colors in blue skies and sunsets.
 - IR: REDI : Strongly emphasizes colors in blue skies and brightness of crimson foliage.
 - [G: GREEN] : Strongly emphasizes colors in red lips and green leaves

[PICT. TONE] : Colors the black and white image.

- [N: NEUTRAL] : Creates a normal black and white image.
- [S: SEPIA] : Sepia
- [B: BLUE] Bluish
- [P: PURPLE] : Purplish
- [G: GREEN] : Greenish

The adjusted parameters are recorded in each picture effect mode. You can select the picture effect modes on the control panel.



冬VIVID

CARD SETUP

Ô,

Ô,

Two types of gradation are available.

HIGH KEY (H) : Extended bright gradations.

LOW KEY (L) : Extended dark gradations.



HIGH KEY Suitable for a subject that is mostly highlighted.

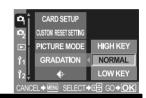
[HIGH KEY]/[NORMAL]/[LOW KEY]

• Use [NORMAL] mode for general uses.

MENU ▶ [□] ▶ [GRADATION]



LOW KEY Suitable for a subject that is mostly shadowed.



Notes

· Contrast adjustment does not work when set to HIGH KEY or LOW KEY.

Shading compensation

In some cases, the edges of the image may be shadowed due to the properties of the lens. The shading compensation function compensates by increasing brightness at the dark edge of the image. This function is especially useful when a wide-angle lens is used.

MENU ▶ []͡2] ▶ [SHADING COMP.] [OFF]/[ON]	Image: Color Space Image: Color Space Image: Shading comp. Y1 Pixel Mapping Y2 Cleaning Mode CANCEL+MER Select+>Image: Selec
Notes	

- This function is not available when a tele converter or inner tube extension is attached to the camera.
- At higher ISO settings, noise in image edges may be conspicuous.

5

Noise reduction

This function reduces the noise that is generated during long exposures. When shooting night scenes, shutter speeds are slower and noise tends to appear in 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.



OFF



ON

MENU ▶ [♣] ▶ [NOISE REDUCTION] [OFF]/[ON]

Select [ON].

- The noise-reduction process is activated after shooting.
- The card access lamp blinks during the noisereduction process. You cannot take more pictures until the card access lamp goes out.



• [busy] is displayed on the viewfinder while noise reduction is operating.

Notes

- When the SCENE mode is set to M, [NOISE REDUCTION] is fixed to [ON].
- When [NOISE REDUCTION] is set to [ON], sequential shooting is not available.
- This function may not work effectively with some shooting conditions or subjects.

Color space

This function lets you select how colors are reproduced on the monitor or printer. The first character in image file names indicates the current color space. I "File name" (P. 114)

Pmdd0000.jpg P : sRGB _____: Adobe RGB

[sRGB]Standardized color space for Windows. [Adobe RGB]Color space that can be set by Adobe Photoshop.

MENU ▶ []2] ▶ [COLOR SPACE]

Select [sRGB] or [Adobe RGB].



Anti-shock

This diminishes camera shake caused by vibrations when the mirror moves. You can select the interval from the time the mirror is raised until the shutter is released. This feature can be useful in astrophotography and microscope photography or other photographic situations where a very slow shutter speed is used, and camera vibration needs to be kept to a minimum.

MENU ▶ [♣] ▶ [ANTI-SHOCK]

Select [OFF] or [1SEC] - [30SEC].



5

6 Playback

Single-frame playback

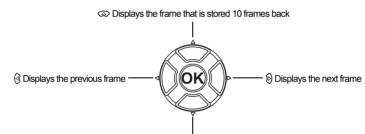
The basic procedure for viewing pictures are as shown below. However, before using any of these functions, follow step 1 below.

1 Press the 🕨 (playback) button.

 The LCD monitor turns off after more than 1 minute if no operations are performed. The camera will turn off automatically if there is no operation after that. (Default setting is 4 hours.) Turn on the camera again.

The last recorded image appears.

2 Use 🕲 to select images you want to view.



 ${ \ensuremath{\textcircled{\sc online \ensuremath{\textcircled{\sc online \sc online \$

- To exit the playback mode, press the 🕨 button.
- Pressing the shutter button halfway resumes the shooting mode.









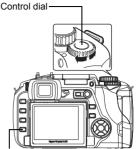
Close-up playback

This function lets you enlarge images displayed on the monitor.

This is useful when you want to check the details in an image.

Each time you turn the control dial toward Q, the image is enlarged in steps of 2x - 14x.

• Turning the control dial toward **S** restores the previous image size.



INFO button

Playback



(Single-frame playback)







Press (2) to change the close-up position.

Press the INFO button.

(Close-up position display)



Press () to move the display of the close-up position.

Press the INFO button.

(Close-up playback)



Press () to view frame-byframe closeups.

Q

Light box display

You can view the close-up image and other images displayed on the left and right. This is useful if you want to compare images you recorded using bracketing.

- 1 During single-frame playback, turn the control dial to switch to close-up playback.
 - Use the control dial to select the magnification.

2 Press the 🛃 button.

• The frame that you enlarge first will be displayed in the left half of the screen, and the next frame will be enlarged with the same magnification in the right half of the screen.

3 Use 🗘 to select an image.

- You can protect, erase or copy the image.
- Pressing the
 button switches the benchmark image on the left to the selected image on the right.
- Pressing the INFO button allows the close-up position to be shifted using the ⁽) button.
- 4 Press the ≱ button to return to close-up single-frame playback.



Control dial



Playback

Notes

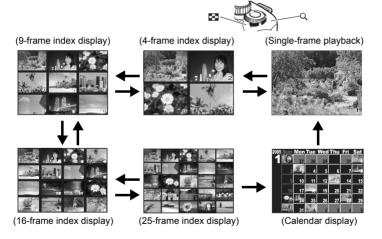
• It is not possible to change the magnification during light box display.

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

Each time you turn the control dial toward **Eq.**, the number of images shown changes from 4 to 9 to 16 to 25.

- 0 : Moves to the previous frame
- ③ : Moves to the next frame
- $\textcircled{\sc op}$: Moves to the upper frame
- $\textcircled{\sc op}$: Moves to the lower frame
- To return to single-frame playback, turn the control dial to Q.





Calendar display

With the calendar, you can display images recorded on the card by date. If more than one image was taken on a single date, the image shot first on that date is displayed.

Use to select the displayed image and press the button to play back the selected image in one frame.

Information display

INFO

This allows you to display detailed information about the image.

Luminance information can also be displayed with histogram and highlight graphs.

Press the INFO button repeatedly until the desired information is displayed.

 This setting is stored and will be shown the next time the information display is called up.





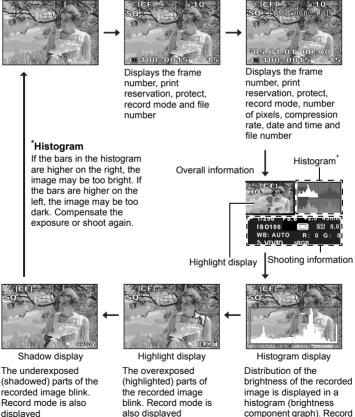






Information 2

INFO button



mode is also displayed

Slideshow

This function displays images stored on the card one after another. Images are displayed one by one for about 5 seconds starting from the currently displayed image. Slideshow can be performed using index display. You can select the number of frames displayed during slideshow from 1, 4, 9, 16 or 25.

1 MENU → [▶] → [₽]

2 Use 🗘 to set.

- [**1**] 1-frame display
- [**H**4] 4-frame display
- [9-frame display
- [16] 16-frame display
- [25] 25-frame display
- 3 Press the ⊕ button to start the slideshow.
- 4 Press the ⊕ button to stop the slideshow.

D ₁	l	D1		
D 2	Ġ	⊞4		
	EDIT	@9		
1 1	L	<i>Ш</i> 16		
12	COPY ALL	∰25		
CANCEL→ MENU SELECT→ 🔄 GO+OK				



When selecting 24

Notes

 If the slideshow is left running for about 30 minutes, the camera will turn off automatically.

Rotating images

This function lets you rotate images and display them vertically on the monitor. This is useful for viewing pictures that were taken with the camera held vertically.

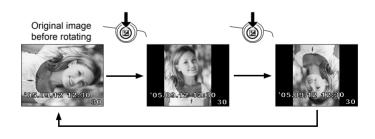
MENU ▶ [▶] ▶ [☆] ▶ [ON]

[OFF]/[ON]

- When set to ON, images shot vertically will be automatically rotated and displayed during playback. You can also press the 🔀 button to rotate and display the image.
- The rotated image will be recorded on the card.



D ₁	Ŀ	
D ₂	Ġ	OFF
	EDIT	ON
1 1	L	
12	COPY ALL	
CANCE	EL ⇒ ∭ENŪ SELECT	♦œ€ G0 ♦OK

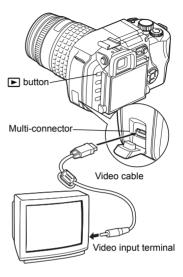


95

Playback on TV

Use the video cable provided with the camera to play back recorded images on your TV.

- 1 Turn the camera and TV off, and connect the video cable as illustrated.
- 2 Turn on the TV and set it to the video input mode. For details on switching to the video input mode, refer to the TV's manual.
- 3 Turn the camera on and press the ► (playback) button.



Notes

- To connect the camera to a TV, use the provided video cable.
- Make sure that the camera's video output signal type is the same as the TV's video signal type.
 US "Selecting the video signal type before TV connection" (P. 117)
- The camera's monitor turns off automatically when the video cable is connected to the camera.
- The image may appear off-center depending on the TV screen.

Editing still images

Recorded images can be edited and saved as new images. Available editing functions depend on the image format (image record mode). A JPEG or TIFF file can be printed as is without modification. A RAW file, on the other hand cannot be printed as is. To print a RAW file, use the RAW edit function to convert the RAW data format to JPEG.

Editing images recorded in RAW data format

The camera performs image processing (such as white balance and sharpness adjustment) on images in the RAW data format, then saves the data to a new file in the TIFF or JPEG format. While checking recorded images, you can edit them to your liking.

Image processing is performed based on the current camera settings. If you want to use different settings when editing, change the current camera settings beforehand.

Editing images recorded in JPEG/TIFF data format

 [BLACK & WHITE]
 Creates black and white images.

 [SEPIA]
 Creates sepia-toned images.

 [REDEYE FIX]
 Reduces red-eye phenomenon during flash shooting.

 [SATURATION]
 Sets the color depth.

 [Saturation]
 Converts the image file size to 1280 x 960, 640 x 480 or 320 x 240



Image in RAW data format



Image in JPEG/TIFF data format



• The image recorded in TIFF is saved as an SHQ image.

1 MENU → [▶] → [EDIT]

2 Use (3) to select images you want to view. Press the ⊛ button.

- The camera recognizes the image data format.
- When editing other images, use $\bigotimes {\textcircled{D}}$ to select the image.
- For images recorded in RAW+JPEG, a selection screen will appear, asking you to edit the appropriate data.
- To exit the edit mode, press the **MENU** button.
- **3** The setting screen varies with the image data format. Select the data you want to edit and do the following steps depending on the image data format.



When editing JPEG/TIFF image

[BLACK & WHITE]/[SEPIA]/[REDEYE FIX]/[SATURATION]/[]]



When editing RAW image

RAW editing is based on the camera's current settings. Set the camera to suit your preferences before shooting.

• The edited image is saved as another image, apart from the original image.

Notes

- Red-eye correction does not work on images recorded in [RAW] or [TIFF].
 Red-eye correction may not work depending on the image. Red-eye correction may affect other parts of the image, as well as the eyes.
- Resizing is not possible in the following cases: When an image is recorded in RAW, when an image is processed on a PC, when there is not enough space in the card memory, when an image is recorded on another camera
- When resizing an image, you cannot select a larger number of pixels than was originally recorded.



Copying images

This function lets you copy images 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.

Copying all the frames

- 1 MENU → [►] → [COPY ALL]
- 2 Press 🖗.
- 3 Use 👁 🏵 to select [YES].

Copying selected frames

- 1 Display the images you want to copy and press the (a) button.
 - The selected images will be shown with red frames.
 - To cancel your selection, press the
 button again.
- 2 Press to display the next images you want to copy and press the (a) button.
- 3 After you have selected the images to copy, press the 凸 (copy) button.
- 4 Use இ இ to select [YES], then press the ⊛ button.
 - To finish copying, press the **MENU** button.
 - It is possible to copy selected frames during index display.







Single-frame copy

- 1 Select the desired frame and press the 🗗 (copy) button.
- 2 Use 👁 🏵 to select [YES], then press the 🐵 button.

Protect images you do not want to erase. Protected images cannot be erased by the single-frame or all-frame erase function.

Play back the image you want to protect and press the **AEL/AFL/O**m (protect) button.

• On is displayed on the screen.

To cancel the protection

Display the images that are protected and press the **AEL/AFL/O**-n button.





Notes

- Formatting the card erases all images even if they have been protected. (
- · Protected images cannot be rotated.

Playback

Erasing images

Lets you erase recorded images. You can select either single-frame erase, which erases only the currently displayed image, or all-frame erase, which erases all the images stored on the card.

Notes

- Protected images cannot be erased. Cancel protected images, then erase them.
- Once erased, images cannot be restored. It "Protecting images Preventing accidental erasure" (P. 100)

Single-frame erase

- 1 Play back the image you want to erase.
- 2 Press the 🟠 (erase) button.
- 3 Use இ to select [YES], then press the ⊛ button.

TIPS

To erase immediately:

→ If you have set [QUICK ERASE] (P. 113) to ON, pressing the ☆ button will erase an image immediately.







All-frame erase

- 1 MENU ▶ [¤] ▶ [CARD SETUP]
- 2 Use ⁽²⁾ to select [ALL ERASE]. Press the ⊛ button.



公

⁽m)

3 Use 👁 👁 to select [YES], then press the 🐵 button.

· All frames will be erased.



Erasing selected frames

This function lets you erase selected images at one time during single-frame playback or index display.

- 1 Display the images you want to erase and press the ext{ w button.}
 - The selected images will be shown with red frames.
 - To cancel your selection, press the
 button again.
 - During index display, press ☺ to select the images you want to erase and press the ☺ button.
- 2 Press to display the next images you want to erase and press the ⊛ button.
- 3 After you have selected the images to erase, press the ᄵ (erase) button.

ERASE SELECTED [CF]
A BOTH RAW & JPEG ARE ERASED
YES
NO

Priority setting

In the []2] menu, [PRIORITY SET] (P. 113) allows you to set the screen cursor setting to [YES].

6

7 Customizing the settings/functions of your camera

Custom reset setting

Normally, current camera settings (including any changes you have made) are retained when the power is turned off. This camera allows you to restore the factory default settings using [RESET] and register 2 different reset settings in [RESET1] and [RESET2] for later use.

MENU ▶ [4] ▶ [CUSTOM RESET SETTING]

[RESET]/[RESET1]/[RESET2]

• If settings have already been registered, [SET] is displayed next to the [RESET1]/ [RESET2] option.

Registering reset settings

- 1 Select either [RESET1]/[RESET2] to register and press the button.
- 2 Select [SET] and press the
 button.
 - To cancel the registration, select [RESET].



Using reset settings

You can reset the camera to [RESET1] or [RESET2] setting or restore the factory default settings.

[RESET] Resets to the factory default settings.

[RESET1]/[RESET2]

Resets to the registered settings.

- 1 Select either [RESET]/[RESET1]/ [RESET2] and press the e button.
- 2 Use 👁 🏵 to select [YES], then press the left button.



Functions that can be registered in CUSTOM RESET SETTING & functions that reset to factory default settings

Function	Factory default setting	Custom reset setting registration	My Mode registration
PICTURE MODE	VIVID	✓	\checkmark
GRADATION	NORMAL	\checkmark	\checkmark
(+	HQ	\checkmark	\checkmark
Z	±0	\checkmark	\checkmark
NOISE REDUCTION	OFF	OFF ✓	
WB	AUTO	\checkmark	\checkmark
ISO	AUTO	\checkmark	\checkmark
METERING	ESP	\checkmark	\checkmark
FLASH MODE	Auto flash ^{*1}	✓	\checkmark
		\checkmark	\checkmark
AF	S-AF	\checkmark	\checkmark
[11]	AUTO	\checkmark	\checkmark
AE BKT	OFF	\checkmark	\checkmark
WB BKT	OFF	\checkmark	\checkmark
FL BKT	OFF	\checkmark	\checkmark
MF BKT	OFF	\checkmark	\checkmark
ANTI-SHOCK	OFF 🗸		_
Playback mode	Single-frame playback (with no information)	_	_
ISO STEP	1/3EV	EV 🗸	
ISO BOOST	OFF	✓	—
ISO LIMIT	OFF	✓	—
EV STEP	1/3EV	✓	—
ALL[WB½]	±0	—	—
HQ	1/8	✓	—
SQ	1280x960, 1/8	✓	—
MANUAL FLASH	OFF	✓	—
5 <u>7</u> +	OFF	\checkmark	—
X-SYNC	1/180	✓	\checkmark
LIVE VIEW BOOST	OFF	✓	\checkmark
DIAL	Ps ^{*1}	\checkmark	—
AEL/AFL	mode1 ^{*2}	\checkmark	_
AEL/AFL MEMO	OFF 🗸		_
AEL METERING	Synchronized with metering mode.	~	_
QUICK ERASE	OFF	\checkmark	_

Function	Factory default setting	Custom reset setting registration	My Mode registration
RAW+JPEG ERASE	RAW+JPEG	\checkmark	_
	□/å/ઙઁ	\checkmark	_
MY MODE SETUP	—	\checkmark	_
FOCUS RING	Ç	\checkmark	_
AF ILLUMINATOR	ON	\checkmark	\checkmark
RESET LENS	ON	—	_
RELEASE PRIORITY S	OFF	\checkmark	\checkmark
RELEASE PRIORITY C	ON	✓	\checkmark
FRAME ASSIST	OFF	✓	_
Ð	2006.01.01	—	_
CF/xD	CF	—	_
FILE NAME	AUTO	—	_
EDIT FILENAME	OFF	—	_
	0	✓	_
¢.	*3	—	_
VIDEO OUT	*3	—	_
■))	ON	\checkmark	_
REC VIEW	OFF	\checkmark	_
SLEEP	1MIN	\checkmark	_
4h TIMER	4h	—	_
BUTTON TIMER	8SEC	—	_
SCREEN	OFF	_	_
CTL PANEL COLOR	COLOR1	—	_
PRIORITY SET	NO	—	_
USB MODE	AUTO	—	_
COLOR SPACE	sRGB	\checkmark	_
SHADING COMP.	OFF	\checkmark	\checkmark
PIXEL MAPPING	—	—	_
CLEANING MODE	—	—	_
≈≠₂/∞ : •	DIAL 🖎 🛂	—	_
FIRMWARE	—	—	_

✓ :Can be registered. — : Cannot be registered. When the [RESET1]/[RESET2] settings are used, functions indicated by "—" will retain their current settings. The factory default settings are not restored.

*1 :Depending on the selected exposure mode, the factory default setting changes.

 $^{\star 2}$:Depending on the selected focus mode, the factory default setting changes.

*3 :The factory default setting varies depending on the area where you purchased this camera.

AEL/AFL mode

You can use the **AEL** button to perform auto focus or metering operations instead of using the shutter button. You can use the button in the following ways.

- When you want to focus on some subject and then change the composition of the photo.
- When you want to set the exposure by metering an area different from where the camera is focused.

Select the function of the button to match the operation when the shutter button is pressed.

MENU ▶ []1] ▶ [AEL/AFL]

[S-AF]/[C-AF]/[MF]

[S-AF] Selects from mode1 - mode3.

[C-AF] Selects from mode1 - mode4.

[MF] Selects from mode1 - mode3.

Modes available in the S-AF mode

	Shutter button function					AEL button function		
Mode	Half	-press	Full press		When holding down AEL			
	Focus	Exposure	Focus Exposure		Focus	Exposure		
mode1	Locked	Locked	-	—	—	Locked		
mode2	Locked	_	_	Locked	_	Locked		
mode3	_	Locked	_	_	Locked	_		

Modes available in the C-AF mode

	Shutter button function				AEL button function	
Mode Half-press		press	Full press		When holding down AEL	
	Focus	Exposure	Focus Exposure		Focus	Exposure
mode1	Focusing starts	Locked	Locked	_	—	Locked
mode2	Focusing starts	_	Locked	Locked	—	Locked
mode3	—	Locked	Locked	_	Focusing starts	_
mode4	—	—	Locked	Locked	Focusing starts	_

Modes available in the MF mode

Mode	Shutter button function				AEL button function	
	Half-press		Full press		When holding down AEL	
	Focus	Exposure	Focus	Exposure	Focus	Exposure
mode1	_	Locked	-	—	—	Locked
mode2	_	—	-	Locked	—	Locked
mode3	—	Locked	_	—	S-AF	—

Other function settings

AEL/AFL memo

You can lock and maintain the exposure by pressing the **AEL** (AE lock) button.

MENU ▶ [Ì] ▶ [AEL/AFL MEMO]

- **[ON]** : Press the **AEL** button to lock and maintain the exposure. Press again to cancel the maintaining of the exposure.
- [OFF] : The exposure will be locked only while the AFL button is pressed.

AEL metering

Sets the metering mode for when pressing the **AEL** (AE lock) button to lock the exposure.

MENU ▶ []1] ▶ [AEL METERING]

[AUTO]/[**()**]/[**•**]/[**•**HI]/[**•**SH]

• [AUTO] performs metering in the mode selected under [METERING] mode.

EV step

This allows you to change the EV step for exposure parameter setting, such as shutter speed, aperture value, exposure compensation value, etc.

MENU ▶ []^{*}1] ▶ [EV STEP] [1/3EV]/[1/2EV]/[1EV]

ISO step

This allows you to change the compensation steps for ISO value setting.

MENU ▶ []^{*}1] ▶ [ISO STEP] [1/3EV]/[1EV]

ISO boost

This allows you to make ISO 400 - 1600 available for ISO setting in addition to ISO 100 - 400.

MENU ▶ []1] ▶ [ISO BOOST]

[OFF]/[ON+NF]/[ON]

• When [ISO BOOST] is set to [ON+NF], shooting time will be longer than usual.

ISO limit

This allows you to set the maximum ISO. Even if the ISO value is fixed in ISO setting, it does not become more than the maximum ISO set in **[ISO LIMIT]**.

MENU ▶ []1] ▶ [ISO LIMIT] [OFF]/[100]/[200]/[400]/[800]

Compensating all WB

This lets you apply the same compensation value to all the white balance modes at once.

MENU ▶ []1] ▶ [ALL[WB]2]

[ALL SET] The same compensation value applies to all WB modes.[ALL RESET] The WB compensation value settings applied to each WB mode are all cleared at once.

If you select [ALL SET]

- Use (1) Use (2) to select the color direction.
 R-B Red—Blue/G-M Green—Magenta
- 2) Use (a) (C) to set compensate value. "WB Compensation" (I) P. 84)
 You can check the white balance you have adjusted.

If you select [ALL RESET]

1) Use (to select [YES].

Manual flash

This allows the built-in flash to output a fixed amount of light. With **[MANUAL FLASH]** set to **[ON]**, you can set the amount of light (FULL, 1/4, 1/16, or 1/64) in the flash mode setting.

MENU ▶ []^{*}1] ▶ [MANUAL FLASH] [ON]/[OFF]

Speed synchronization

You can set the shutter speed that will be used when the built-in flash fires. The speed can be set from 1/60 to 1/180 in 1/3 EV increments.

MENU ▶ []1] ▶ [\$X-SYNC]

[1/60]/[1/180]

• For details on the synchronization speed of commercially available flashes, refer to their manuals.

Live view boost

It may be difficult to view images on the LCD monitor when the Live View function is used in night scenes or dark places. Set to **[ON]** when you want the subject to be displayed on the monitor.

MENU ▶ []^{*}1] ▶ [LIVE VIEW BOOST] [ON]/[OFF]

When the subject is displayed on the LCD monitor using this function, the image quality drops below normal.

Customizing the control dial's function

The control dial factory default settings are as follows:

P Program shooting

Program shift (Ps) setting Exposure compensation setting	 Turning the control dial. Turning the control dial while holding down the (exposure compensation) button.
Manual shooting	
Shutter speed setting	: Turning the control dial.
Aperture value (f-number) setting	: Turning the control dial while holding down
	the 🔀 (exposure compensation) button.

You can invert the assignment of functions.

- P Exposure compensation can be done by using only the control dial.
- **M** The aperture can be set by using only the control dial.

MENU ▶ []1] ▶ [DIAL]

[**P**]/[**M**]

If you select [P]

- **[Ps]** Use the control dial to do program shift.
- Use the control dial to set the exposure compensation.

If you select [M]

 $\label{eq:shutter} \textbf{[SHUTTER]} \hspace{0.1in} \textbf{Use the control dial to set the shutter speed}.$

[FNo.] Use the control dial to set the aperture value.

M

L button function

This lets you replace the function assigned to the \square button by registering another function.

MENU ▶ []1] ▶ [□FUNCTION]

[旦/1/3]

It functions as the "Sequential shooting/Remote control/Self-timer" setting. (factory-default setting)

LS[™] "Single-frame shooting/sequential shooting" (P. 58), "Self-timer shooting" (P. 59), "Remote control shooting" (P. 61)

[日]

One-touch white balance button

Setting the one-touch white balance" (P. 83)

[TEST PICTURE]

Pressing the shutter button while pressing the 🖵 button enables you to check the picture you have just taken on the monitor without having to record the picture to the card. This is useful when you want to see how a picture turned out before saving it.

[MY MODE]

While holding down the \square_{i} button, you can take pictures using the camera settings registered in the **[MY MODE SETUP]**.

IC "My Mode setting" (P. 112) (See below)

[PREVIEW]/[PREVIEW B] (electronic)

While holding down the 🖵 button, you can use the preview function. IS "Preview function" (P. 38)

My Mode setting

This allows you to register 2 different combinations of camera settings. It is useful when you want to temporarily change the settings during memo shooting. You can set either of the **[MY MODE SETUP]** in the menu in advance. For My Mode, set **[**] FUNCTION] to **[MY MODE]** and when using it, shoot while pressing the] button.

MENU ▶ []1] ▶ [MY MODE SETUP] [MY MODE1]/[MY MODE2]

• If menu settings have already been registered, **[SET]** is displayed next to the corresponding reset option.

Registering

Select [SET] and press the
button.

- · The current settings are registered in the camera.
- To cancel the registration, select [RESET].

Executing

Select [MY MODE1] or [MY MODE2] and press the
button.

• Select [YES] and press the
w button to set to the available My Mode.

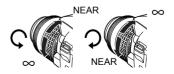
Reset lens

This allows you to reset the focus of the lens (infinity) when the power is turned off.

Focus ring

This allows you to customize how the lens adjusts to the focal point by selecting the rotational direction of the focus ring.

MENU ▶ []1] ▶ [FOCUS RING] [卬]/[卬]



MENU ▶ []1] ▶ [RESET LENS] [OFF]/[ON]

Priority setting

This allows you to customize the initial position of the cursor (**[YES]** or **[NO]**) on the **[ALL ERASE]** or **[FORMAT]** screen.

MENU ▶ []^{*}2] ▶ [PRIORITY SET] [YES]/[NO]

Quick erase

MENU ▶ []1] ▶ [QUICK ERASE]

- **[OFF]** When the ⁽⁽/₂)</sup> (erase) button is pressed, the confirmation screen appears, asking you if you want to erase the picture.
- [ON] Pressing the 🖗 (erase) button erases the picture immediately.

Erasing RAW and JPEG files

This lets you select the method to erase images recorded in RAW+JPEG. It is a function effective only when deleting one frame.

MENU ▶ []1] ▶ [RAW+JPEG ERASE]

 [JPEG]
 Erases all JPEG image files, leaving only the RAW image files.

 [RAW]
 Erases all RAW image files, leaving only the JPEG image files

[RAW+JPEG] Erases both image file types.

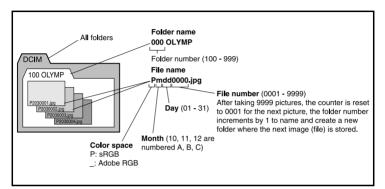
Notes

 This function is effective only if deleting one frame. For all-frame erase or erasing selected frames, both RAW and JPEG will be erased regardless of this setting.

File name

When you take a picture, the camera assigns it a unique file name and saves it in a folder. The folder and file name can later be used for file handling on a computer.

File names are assigned as shown in the illustration below.



MENU ▶ []2] ▶ [FILE NAME]

- **[AUTO]** Even when a new card is inserted, the folder numbers are retained from the previous card. If the new card contains an image file whose file number coincides with one saved on the previous card, the new card's file numbers start at the number following the highest number on the previous card.
- **[RESET]** When a new card is inserted, folder numbers start at 100 and file numbers start at 0001. If a card containing images is inserted, the file numbers start at the number following the highest file number on the card.
- When both the Folder and File No. reach their respective maximum number (999/9999), it is not possible to store additional pictures even if the card is not full. No more pictures can be taken. Replace the card with a new one.

Rename file

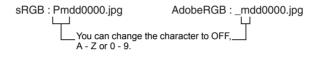
You can rename image files to make them easier to identify and organize.

Select [sRGB] or [Adobe RGB].

(IBS P. 88)

MENU ▶ [12] ▶ [EDIT FILENAME]

Use O to enter the first character. Press O to move to the next setting, then use O to enter the second character.



Rec view — Checking the picture immediately after shooting

This allows you to display the picture you have just taken on the monitor while it is being recorded to the card, and to select how long the picture is displayed. This is useful for making a brief check of the picture you have just taken. Pressing the shutter button halfway while checking the picture lets you resume shooting immediately.

MENU ▶ [12] ▶ [REC VIEW]

[OFF]The picture being recorded to the card is not displayed.[1SEC] - [20SEC] Selects the number of seconds to display each picture.
Can be set in units of 1 second.

Setting the beep sound

The camera beeps when buttons are pressed. You can turn the beep sound on or off with this function.

MENU ▶ []²] ▶ [■>>)] [OFF]/[ON]

Monitor brightness adjustment

This allows you to adjust the brightness of the monitor for optimal viewing.

MENU ▶ []2] ▶ [!....]

Use @ To adjust the brightness.

Sleep timer

After a specified period of time elapses with no operations being performed, the camera enters the sleep mode (stand-by) to save battery power. **[SLEEP]** lets you select sleep timer. **[OFF]** cancels the sleep mode.

The camera activates again as soon as you touch any button (the shutter button, arrow pad, etc.).

MENU ▶ []^{*}2] ▶ [SLEEP] [OFF]/[1MIN]/[3MIN]/[5MIN]/[10MIN]

USB mode

You can connect the camera directly to a computer or printer with the provided USB cable. If you specify the device you are connecting to beforehand, you can skip the USB connection setting procedure normally required every time you connect the cable to the camera. For details on how to connect the camera to either device, refer to Chapter 9 "Connecting the camera to a printer" (ISP P. 126) and Chapter 10 "Connecting the camera to a computer" (ISP P. 136).

MENU ▶ []2] ▶ [USB MODE]

[AUTO]

The selection screen for the USB connection will be displayed every time you connect the cable to a computer or printer.

[STORAGE]

Allows USB connection to a PC and transfer of data to the PC. Also, select to use the OLYMPUS master software via PC connection.

[CONTROL]

Allows you to control the camera from a PC using the optional OLYMPUS Studio.

[凸EASY]

Can be set when connecting the camera to a PictBridge-compatible printer. Pictures can be printed directly without using a PC.

Connecting the camera to a printer" (P. 126)

[凸СИЗТОМ]

Can be set when connecting the camera to a PictBridge-compatible printer. You can print out pictures with set number of prints, print paper and other settings. I refer to a printer" (P. 126)

Changing the display language

You can change the language used for the on-screen display and error messages from ENGLISH to another language.

Use (2) To select the language you want to use.

 You can add another language to your camera with the provided OLYMPUS Master software.

For details, refer to Help in OLYMPUS Master software.

Selecting the video signal type before TV connection

This lets you select NTSC or PAL according to your TV's video signal type. You will need to set this when you want to connect the camera to a TV and play back images in a foreign country. Make sure the correct video signal type is selected before connecting the video cable. If you use the wrong video signal type, recorded pictures will not play back properly on your TV.

MENU ▶ []^{*}2] ▶ [VIDEO OUT] [NTSC]/[PAL]

TV video signal types in major countries and regions

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

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

Button timer

When functions are set with the direct buttons, this function allows you to set the duration from when you stop operating the buttons to when the menu disappears.

MENU ▶ [12] ▶ [BUTTON TIMER]

- **[HOLD]** You can take as long as you like to complete function setting. The current screen will remain until you press the button again.
- [3SEC] You will have 3 seconds to complete function setting on the current setting screen.
- **[5SEC]** You will have 5 seconds to complete function setting on the current setting screen.
- **[8SEC]** You will have 8 seconds to complete function setting on the current setting screen.

Auto power off

You can set the camera to turn off automatically if not operated for a long time. It will not turn off if this is set to **[OFF]**.

MENU ▶ []^{*}2] ▶ [4h TIMER] [OFF]/[4h]

Start-up screen

This function allows you to select not to display the start-up screen when the camera is turned on.

When it is set to [OFF], the start-up screen will not be displayed.

MENU ▶ []^{*}2] ▶ [SCREEN] [OFF]/[ON]

Changing monitor color

You can change the background color of the monitor.

MENU ▶ []^{*}₂] ▶ [CTL PANEL COLOR] [COLOR1]/[COLOR2]

(Underwater mode)

It is possible to switch [(SPORT)] and [2 (NIGHT+PORTRAIT)] on the mode dial to [(UNDER WATER MACRO)] and [(UNDER WATER WIDE)]. Use an optional underwater protector for underwater shooting.

MENU ▶ [Ì2] ▶ [♥ 20/338] [DIAL♥ 20]/[DIAL 338]

Firmware

Your product's firmware version will be displayed.

When you make inquiries about your camera or accessories or when you want to download software, you will need to state which version of each of the products you are using.

MENU ▶ []^{*}2] ▶ [FIRMWARE]

Press \mathfrak{D} . Your product's firmware version will be displayed. Press the \mathfrak{S} button to return to the previous screen.

Setting the date/time

Date and time information is recorded on the card together with the images. The file name is also included with the date and time information. Be sure to set the correct date and time before using the camera.

MENU ▶ []2] ▶ []]

Use @ @ to select one of the following date formats: [Y-M-D] (Year/Month/Day), [M-D-Y] (Month/Day/Year), [D-M-Y] (Day/Month/Year). Then press ().

- The following steps show the procedure used when the date and time settings are set to [Y-M-D].
- 1 Use I use to set the year, then press to move to the month setting.
 - To return to the previous setting, press \mathfrak{D} .
 - The first two digits of the **[Y]** (year) are fixed.
- 2 Repeat this procedure until the date and time are completely set.
 - The time is displayed in the 24-hour format. For example, 2 p.m. will be displayed as 14:00.

3 Press the 🐵 button.

• For a more accurate setting, press (a) when the time signal hits 00 seconds. The clock starts when you press the button.

Notes

• The date and time settings will be returned to the factory default settings if the camera is left without the battery for approximately 1 day. The settings will be canceled more quickly if the battery was only loaded in the camera for a short time before being removed. Before taking important pictures, check that the date and time settings are correct.



8 Printing

Print reservation (DPOF)

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

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 photo lab, by storing such data as which pictures you wish to print and the number of prints on a card.

Pictures set with print reservation can be printed using the following methods.

Printing using a DPOF-compatible photo lab

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 manual. A PC card adapter may also be necessary depending on the printer.

Picture size and printing

The pixel count 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 pixel count, 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. Is "Selecting the record mode" (P. 71)

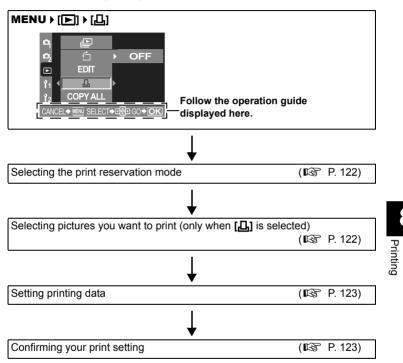
Notes

- 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 will erase the previous reservations.
- If there is not enough space in the card memory, [CARD FULL] will be displayed and you may not be able to enter the reservation data.
- You can make DPOF print reservations for up to 999 images per card.
- Not all functions may be available on all printers or at all photo labs.
- Print reservation may take considerable time when saving printing data to a card.

Flowchart for print reservation

There are two print reservation modes available: single-frame reservation [凸] or all-frame reservation [凸].

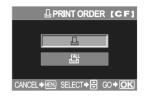
Perform the following settings in the menu.



Selecting the print reservation mode

Select whether to apply print reservation to selected pictures or apply print reservation to all the pictures stored on the card.

- [] Applies print reservation to selected pictures.
- [岱] Applies print reservation to all the pictures stored in the card. Pictures shot after performing all-frame reservation and stored on the same card will not be printed.



If print reservation data is already stored on the card

The RESET/KEEP selection screen appears, giving you the choice of resetting the data or keeping it.

Resetting print reservation" (P. 123)

Selecting pictures you want to print

Applies print reservation to selected pictures. Display the picture to be printed and select the desired number of prints. The number of prints can be set up to 10. If the number of prints is set to 0, print reservation will not be applied. If all-frame reservation is used after singleframe reservation, specifications for the number of prints will be overwritten and only one copy of each frame will be printed.



Setting printing data

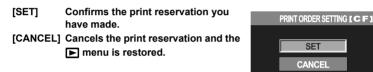
You can print the shooting date and time on all the pictures selected for printing.

- [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.



CANCEL + MENU SELECT + A GO + OK

Confirming your print setting



Resetting print reservation

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

1 менu → [▶] → [Љ]

- 2 Use ② to select [凸] or [岱].
 - [L] Select this when you want to reset the print reservation data for a selected picture.
 - Select this when you want to reset the print reservation data for all pictures.

3 Press the 🛞 button.

- If print reservation data is already stored on the card, the RESET/KEEP selection screen appears, giving you the choice of resetting the data or keeping it.
- 4 Do the following steps depending on the print reservation mode you have selected:

To reset the print reservation data for all pictures, select the print reservation mode and select **[RESET]** to reset.

To reset the print reservation data for a selected picture, follow the steps in "Resetting the print reservation data for a selected picture" (P. 124) and set the number of prints to 0.

Resetting the print reservation data for all pictures

- 1) When the screen on the right appears in step 2, select **[RESET]**.
- Press the MENU button repeatedly until the menu disappears.

Resetting the print reservation data for a selected picture

1) Select [KEEP] and press the
 button.

- Use

 ⁽²⁾
 ⁽²⁾
 - To reset print reservation data of other frames, repeat this step.
- Press the
 sin button when you have finished.
 - The [] screen is displayed.

4) Use (2) To select [NO], [DATE] or

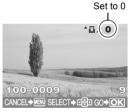
[TIME], then press the 🕞 button.

• This setting is applied to all frames with print reservation data.

5) Use (a) (b) to select **[SET]**, then press the (e) button.

- The setting is saved.
- The 🕨 menu is restored.









8 Printing

Direct printing (PictBridge)

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. (INF) P. 120)

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

PictBridge

The standard that enables digital cameras and printers made by different manufacturers to be connected, and also allows pictures to be printed directly from the camera.

STANDARD

All printers that support PictBridge have standard print settings. By selecting [**_____STANDARD**] on the settings screens (**I** P. 129), you can print pictures according to these settings. For details on your printer's standard settings, refer to the printer's manual or contact the printer manufacturer.

Printer accessories

For details on printing paper types, ink cassettes, etc., refer to the printer's manual.

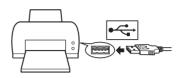
Notes

- Keep an eye on the battery remaining power. 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 cannot be printed.
- The camera will not enter sleep mode while it is connected to the USB cable.

Connecting the camera to a printer

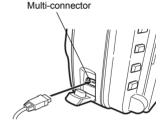
Use the provided USB cable to connect the camera to a PictBridge-compatible printer.

- 1 Turn the printer on and plug the printer end of the USB cable into the printer's USB port.
 - For details on how to turn the printer on and the position of the USB port, refer to the printer's manual.



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

• The selection screen for the USB connection is displayed.





3 Use ۞ to select [凸EASY] or [凸CUSTOM].

If you select [凸EASY]

• Go to "Easy printing" (P. 127).

If you select [凸CUSTOM]

• [ONE MOMENT] is displayed and the camera and printer are connected. Go to "Flowchart for custom printing" (P. 127).



Notes

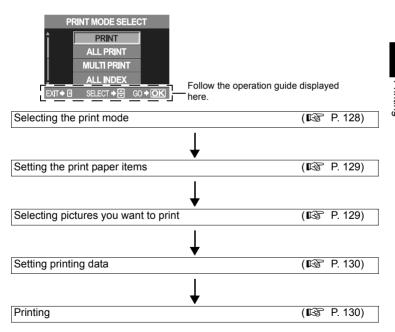
• If the screen is not displayed after a few minutes, turn off the camera and start again from Step 2.

Easy printing

- 1 Display the image you want to print on the camera and connect the camera with a printer using a USB cable. IS "Connecting the camera to a printer" (P. 126)
 - The [EASY PRINT START] screen is displayed.
- 2 Press the 🗳 (print) button.



Flowchart for custom printing



Selecting the print mode

Select the type of printing (print mode). The available print modes are as shown below.

[PRINT] [ALL PRINT]	Prints selected pictures. Prints all the pictures stored in the card and makes one print for each picture.
[MULTI PRINT]	Prints multiple copies of one image in separate frames on a single sheet.
[ALL INDEX]	Prints an index of all the pictures stored in the card.
[PRINT ORDER]	Prints according to the print reservation you made. If there is no picture with print reservation, this is not available. (ISP P. 122)



Print modes and settings

The available print modes and settings such as paper size vary with the type of printer.

For details, refer to the printer's manual.

Setting the print paper items

This setting varies with the type of printer. If only the printer's STANDARD setting is available, you cannot change the setting.

- [SIZE]Sets the paper size that the
printer supports.[BORDERLESS]Selects whether the picture is
printed on the entire page or
inside a blank frame.
- [PICS/SHEET] Selects the number of pictures per sheet. Displayed when you have selected [MULTI PRINT].



Selecting pictures you want to print

Select pictures you want to print. The selected pictures can be printed later (single-frame reservation) or the picture you are displaying can be printed right away.

[PRINT](OK)) Prints the currently displayed picture. If there is a picture that **ISINGLE PRINT1** reservation has already been applied to, only that reserved picture will be printed. [SINGLE PRINT]() Applies print reservation to the currently displayed picture. If you want to apply reservation to other pictures after applying [SINGLE PRINT], use (1) to select them. [MORE]() Sets the number of prints and other items for the currently displayed picture, and whether or not to print it. Setting printing data" (P. 130)



Setting printing data

Select whether to print printing data such as the date and time or file name on the picture when printing.

[凸×]	Sets the number of prints.	
[0]	Prints the date and time	_
	recorded on the picture.	
[FILE NAME]	Prints the file name recorded on	
	the picture.	Fi

	PRIN	TI	NFO
	Дx		1
	Ð		WITHOUT
	FILE NAME		WITHOUT
SE	ELECT 🕈 🖨 🛛 SE	T	GO+OK

Printing

Print when you have set the pictures for printing and printing data.

[OK]	Transfers images you print to the printer.
[CANCEL]	Resets the settings. All print reservation data will be lost. If you want to keep the print reservation data and make other settings, press ③. This returns you to the previous setting.



To stop and cancel printing, press the is button.

[CONTINUE]	Continues printing.
[CANCEL]	Cancels printing. All print
	reservation data will be lost.



9 Connecting to a computer

Flowchart

Just connect the camera to a computer with the USB cable and you can easily transfer images stored on the card to the computer with the provided OLYMPUS Master software.

Things to prepare

OLYMPUS Master CD-ROM
 USB cable
 Installing OLYMPUS Master
 (IS P. 132)
 ✓
Connecting the camera with your computer using the provided USB cable
 (IS P. 136)
 ✓
Starting OLYMPUS Master
 (IS P. 137)
 ✓
Saving pictures to your computer
 (IS P. 138)
 ✓
Disconnecting the camera from your computer
 (IS P. 139)

Using the provided OLYMPUS Master software

What is OLYMPUS Master?

OLYMPUS Master is an image management program with viewing and editing features for pictures taken with your digital camera. Once installed on your computer, you can take advantage of the following.

- Transferring images from the camera or removable media to your computer
- Viewing images You can also enjoy slideshows and sound playback.
- Grouping and organizing images You can organize images by displaying them in a calendar format. Using shooting date or key words, you can quickly find the particular images you want.
- Correcting images using filter and correction functions

Editing images

You can rotate, trim or change the image size.

- A variety of printing formats You can print in a variety of formats including index prints, calendars, postcards, and more.
- Creating panorama images You can make a panorama from the photos you have taken using the panorama function.

For information about OLYMPUS Master's other features, as well as for details on how to use the software, refer to OLYMPUS Master **[Help]** or the OLYMPUS Master software user's guide.

Installing OLYMPUS Master

Identify the OS on your computer before installing the software. For the latest information on compatible operating systems, visit the OLYMPUS web site (http://www.olympus.com).

System requirements

ded)
olors

Notes

- Only pre-installed operating systems are supported.
- To install OLYMPUS Master on a computer running Windows 2000 Professional or Windows XP, login as a user with administrator privileges.
- QuickTime 6 or later and Internet Explorer must be installed on the computer beforehand.
- For Windows XP, Windows XP Professional/Home Edition is supported.
- For Windows 2000, only Windows 2000 Professional is supported.
- For Windows 98SE, a USB driver will be automatically installed.

Macintosh

OS	Mac OS X 10.2 or later
CPU	Power PC G3 500 MHz or higher
RAM	128 MB or more (256 MB or more recommended)
HD space	300 MB or more
Interface	USB port
Monitor	1024 x 768 pixels or more, minimum 32,000 colors
Interface	USB port

Notes

- If your Macintosh has no built-in USB port, its functionality may not be guaranteed when the camera is connected to the computer via USB.
- QuickTime 6 or later and Safari 1.0 or later must be installed on your computer.
- Be sure to remove the card (drag and drop it onto the Trash icon) first before
 performing the following procedures. If you skip these procedures, the computer
 may not function properly, requiring you to restart it.
- · Unplug the cable connected between the camera and computer.
- Turn off the camera.
- Open the camera's card compartment cover.

How to install

Windows

- 1 Boot your computer and insert the OLYMPUS Master CD into your CD-ROM drive.
 - The OLYMPUS Master Setup Menu will automatically launch.
 - If the menu window does not appear, doubleclick the **[My Computer]** icon, and click the CD-ROM icon.



- 2 Click [OLYMPUS Master].
 - The QuickTime Setup program will automatically run.
 - QuickTime is required to run OLYMPUS Master. If QuickTime 6 or later is preinstalled on your computer, the setup program will not run. In this case, go to step 4.



3 Click [Next], then follow the on-screen prompts to continue installing the program.

- When the software license agreement window appears, read the license agreement text, then click [Agree].
- The OLYMPUS Master installation window appears.
- 4 Follow the on-screen prompts to continue installing the program.
 - When the software license agreement window appears, read the license agreement text, then click [Yes].





- When the screen on the right appears, enter your [Name] and the [OLYMPUS Master serial number]. Select your region, then click [Next]. Refer to the serial number that is printed on the label on the CD-ROM package.
- When the DirectX license agreement window appears, read the message, then click **[Yes]** to continue installation.
- A confirmation window appears, asking you if you want to install Adobe Reader. To view the OLYMPUS Master software user's guide, Adobe Reader must be installed. If Adobe Reader is already installed on your computer, click **[OK]**.
- **5** Follow the on-screen prompts to continue installing the program.
 - A window appears to inform you when installation is complete.
- 6 Select the option to restart immediately when the screen asking you if you wish to restart the computer is displayed and click [OK].

User Information	X
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	(Backg) Not(S) Cased



Macintosh

1 Insert the OLYMPUS Master software CD into your CD-ROM drive.

- The CD-ROM window automatically appears.
- If the screen does not appear, double-click the CD-ROM icon on your desktop.

2 Double-click the [Installer] icon.

- Follow the on-screen prompts to continue installing the program.
 OLYMPUS Master Installer will automatically launch.
- When the software license agreement window appears, read the license agreement text, then click [Continue] and [Agree].
- A window appears to inform you when installation is complete.
- 3 Click [Quit].

4 Remove the CD, then click [Restart].

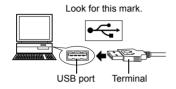




Connecting the camera to a computer

Connect the camera to your computer with the provided USB cable.

- 1 Use the provided USB cable to connect the computer's USB port to the camera's multi-connector.
 - The location of the USB port varies with the computer. For details, refer to your computer's manual.



Smaller terminal Multi-connector



- 2 Set the camera's power switch to ON.
 - The selection screen for the USB connection is displayed.
- 3 Press @ Ø to select [STORAGE]. Press the ⊛ button.
- 4 The computer recognizes the camera as a new device.
- USB MODE STORAGE CONTROL L EASY L CUSTOM SELECT + C GO + OK

• Windows

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 =].

Macintosh

iPhoto is the default image management application for Mac OS. When you connect your Olympus digital camera for the first time, iPhoto will start up automatically. Close iPhoto and start OLYMPUS Master.

Notes

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

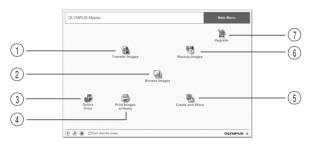
Starting OLYMPUS Master

Windows

- 1 Double-click 📠 (OLYMPUS Master) on the desktop.
 - The OLYMPUS Master main menu is displayed.

Macintosh

- 1 Double-click 🗟 (OLYMPUS Master) in the [OLYMPUS Master] folder.
 - The OLYMPUS Master main menu is displayed.
 - The first time you start the program, a dialog box appears, prompting you for User Information. Enter your [Name] and the [OLYMPUS Master serial number] that is printed on the affixed label, then select your region.



① [Transfer Images] button

Transfers images from the camera or removable media.

@ [Browse Images] button

The Browse window is displayed.

3 [Online Print] button

The online print window is displayed.

[Print Images at Home] button The print menu is displayed.

⑤ [Create and Share] button The menus for enjoying images are displayed.

© [Backup Images] button

Backs up images onto removable media.

⑦ [Upgrade] button

The dialog box that allows upgrade to OLYMPUS Master Plus is displayed.

Closing OLYMPUS Master

- 1 Click 🗷 (Exit) in the main menu.
 - The OLYMPUS Master program is closed.

Downloading images to save on your computer

Save images downloaded from the camera on your computer.

- 1 Click î (Transfer Images) in the OLYMPUS Master main menu
 - The selection menu for the folders containing the files to be copied is displayed.

2 Click 👘 (From Camera).

· The window containing the files to be copied appears. The thumbnails of all the images in the camera are displayed.

3 Select the image file you want to save on the computer, then click the [Transfer Images] button.

· A confirmation message is displayed.



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	S Local
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	d Instribut

4 Click the [Browse images now.] button.

- · The images downloaded to the Browse window are displayed.
- · Clicking [Menu] in the Browse window returns to the main menu.
- · Never open the camera's battery/card compartment cover while the card access lamp is blinking. Doing so may destroy the image files.

윤 Tran	sfor Images	×
	Insee transfer is complete.	3
1	Browce images now.	DKI

Disconnecting the camera from your computer

After downloading images from the camera to your computer, you can disconnect the camera from your computer.

- 1 Make sure that the card access lamp has stopped blinking.
- 2 Do the following steps depending on your computer's operating system.



Card access lamp

Windows 98SE

- 1) Double-click the [My Computer] icon and right-click the [Removable Disk] to display the menu.
- 2) Click [Eject] on the menu.





■ Windows Me/2000/XP

- In the System Tray, click the Remove Hardware icon S.
- 2) Click on the pop-up message.
- 3) Click [OK] on the [Safe to Remove Hardware] window.





Macintosh

 The trash icon changes to the eject icon when the [Untitled] or [NO_NAME] icon on the desktop is dragged. Drag and drop it on the eject icon.



3 Unplug the USB cable from the camera.

Notes

· For Windows Me/2000/XP users:

When you click [Unplug or Eject Hardware], a warning message may be displayed. In such case, make sure that no image data is being downloaded from the camera, and that there are no applications open that were accessing the camera image files. Close any such applications and click [Unplug or Eject Hardware] again and then remove the cable.

Viewing still images

- Click (Browse Images) in the OLYMPUS Master main menu.
 The Browse window is displayed.
- 2 Double-click the thumbnail of the image you want to view.

- The screen switches to the View mode, enlarging the image.
- Clicking [Menu] in the Browse window returns to the main menu.

Thumbnail





Printing

The print menus include menus such as **[Photo]**, **[Index]**, **[Postcard]**, **[Calendar]**, etc. The examples in the instructions below are taken from the Photo menu.

- 1 Click 🚍 (Print Images at Home) in the OLYMPUS Master main menu.
 - The print menu is displayed.
- 2 Click 🛄 (Photo).
 - The photo print window is displayed.
- **3** Click (printer settings) in the photo print window.
 - The printer setting dialog box is displayed. Make printer settings as required.
- 4 Select the layout and size of the image to print.
 - To print images with the date or date and time, check off [Print Date], then select
 [Date] or [Date & Time].
- 5 Select the thumbnail of the image you want to print, then click the [Add] button.
 - The selected image is previewed on the layout.
- 6 Set the number of images to print.
- 7 Click the [Print] button.
 - Clicking [Menu] in the photo print window returns to the main menu.









9

Transferring images to your computer without using OLYMPUS Master

Your camera supports the USB Mass Storage Class. You can transfer images to a computer by connecting the camera to the computer with the provided USB cable. This can be done even without using OLYMPUS Master. The following operating systems are compatible with the USB connection:

 Windows
 : Windows 98SE/Me/2000 Professional/XP

 Macintosh
 : Mac OS 9.0-9.2/X

Notes

 Users running Windows 98SE need to install the USB driver. Before connecting the camera to your computer with the USB cable, double-click the file included in the following folder on the provided OLYMPUS Master CD-ROM. When you install OLYMPUS Master, the USB driver will be installed at the same time.

Your computer's drive name: \USB\INSTALL.EXE

- 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 95/98/NT 4.0
 - Windows 98SE upgrade from Windows 95/98
 - Mac OS 8.6 or lower
 - Data transfer is not guaranteed on a home-built PC system or PCs with no factory installed OS

10 Getting to know your camera better

A guide to functions for different subjects

This section describes the functions suitable under different shooting conditions depending on the subject.

Taking landscape pictures

Outdoor scenes such as flower scenery and night scenery are some of the landscape pictures. There are different things to take note when taking different landscape pictures. This section describes taking outdoor scenery pictures such as forests and lakes in the day.

Changing shooting mode

Outdoor scenery includes both motion and still sceneries. The shooting method changes accordingly in order to capture a realistic movement of the subject.

- To take a picture that focuses on a certain point among a wider range of the image such as bringing out the depth of a forest, use A (Aperture priority shooting) mode and close the aperture (increase the aperture value) as much as possible.
- To capture the instant where waves smash against the seashore, use S (Shutter priority shooting) mode and select a fast shutter speed. To shoot flowing waterfall or river, set a slow shutter speed to capture a scene different from the actual scene.

Exposure compensation can be used even under different shooting modes. Check the image that you have shot and use + or - to compensate.

Using white balance

The color of water is different depending on whether it is a lake surrounded by forests or a tropical sea. To capture the subtle difference in color, try changing the white balance setting. It may be difficult to use auto settings to capture the subtle colors of a lake reflecting the leafy green of the trees or a sea surrounded by corals. Try changing the settings for different situations such as 5300K for sunny days and 7500K for an outdoor shaded area during sunny days.





Changing metering mode

Depending on the depth and the direction of the sun, the brightness of the sea differs significantly even in the same composition. There is also a difference in the brightness of forests depending on the way the trees overlap each other. If you know which are the areas to emphasize the compensation in the image composition. you can change the metering mode.

The metering mode is set in ESP as long as the camera settings remain unchanged. The camera automatically assesses the brightness in the composition and the ESP determines the exposure. To emphasize on specific



partial exposure in the composition, change to center weighted metering or spot metering, adjust the AF frame to the locations that you wish to adjust the exposure and measure the exposure.

Changing saturation

There may be times when you could not reproduce the same color as what you have seen even when you have used white balance or exposure compensation. You can set the saturation to achieve the color that you want. You can select high or low setting for saturation. When the setting is high, a vivid color will be used. However, as the image will be recorded with this setting during shooting, it is recommended to avoid over-setting.

■ "A: Aperture priority shooting" (P. 30), "S: Shutter priority shooting" (P. 32), "Metering mode - Changing the metering system" (P. 73), "Exposure compensation - Varying the image brightness" (P. 75), "White balance — Adjusting the color tone" (P. 79), [SATURATION] "Picture mode" (P. 85)

Taking flower pictures

Flower scenery ranges from a bunch of flowers in the wild to a field of flowers. The way of shooting differs depending on how you wish to capture the image.

Using white balance

There are many colors of flowers ranging from light to vivid ones. Depending on the colors, subtle color shades may not be captured as seen. When beautiful color shades are not reproduced. check the light condition and change the white balance setting. The default setting of white balance is auto as long as the camera settings are not changed. Auto setting is fine but changing the settings for different situations such as 5300K



for sunny days and 7500K for an outdoor shaded area during sunny days will bring out subtle color shades more effectively.

Getting to know your camera better

Using exposure compensation

When shooting a picture with background, select a background that will bring out the shape and color of the flower. A simple background will bring out the subject. When shooting bright and whitish flowers, adjust exposure compensation to -(minus) so that the flower stands out from the dark background.

Changing shooting mode

The method to capture a subject changes according to the type of subject you wish to emphasize, be it a field or a bunch of flowers. To change the focus area, set to A (aperture priority shooting) mode and select the aperture value.

- When you open the aperture (decrease the aperture value), the camera will focus within a shorter range (shallow depth of field), producing an emphasized subject with a blurred background.
- When you close the aperture (increase the aperture value), the camera will focus over a wider range (more depth of field), producing a picture with clear focus.

You can use the preview function to confirm the changes in the depth of field when the aperture is changed.







Using live view

 You may not be able to select a good angle while looking at the viewfinder. As the LCD monitor of this device is a full-angle view, using the live view function together with the LCD monitor makes it easier to view and take pictures instead of the viewfinder.

Changing lenses

When the blooming flowers are few and sparse, set the lens to extender to take the picture. A picture taken with extender will appear as though the flowers are blooming thickly and the distance seen is closer. Using telescopic feature of the zoom lens also achieves the same effect but it is easier to achieve the effect when the focus distance is longer such as 150 mm or 200 mm, rather than 54 mm.

L⊗ "**A**: Aperture priority shooting" (P. 30), "Live view" (P. 36), "Preview function" (P. 38), "Exposure compensation — Varying the image brightness" (P. 75), "White balance — Adjusting the color tone" (P. 79)

Taking night scene pictures

There are different types of night scenes, ranging from the afterglow of a sunset to city lights at night. Sunset and fireworks sceneries are also a type of night scene.

Using a tripod

A tripod is a must when shooting night scenes as the shutter speed is slow due to the darkness. Even when a tripod is not available, you should also place the camera on a stable ground such that it does not shake. Even when the camera is secured, you may also move the camera when pressing the shutter button. Hence, use the remote control or self timer to activate the shutter as far as possible.



Changing shooting mode

When taking night scenes, the balance of the brightness in the composition is not uniform due to the intensity of brightness. As there are many dark areas, using **P** (program shooting) mode will take a whitish picture that is overexposed. First of all, use **A** (aperture priority shooting) mode to take the picture. Set the aperture to the medium setting (about F8 or F11) and leave the shutter speed to the camera. As it is common for the picture to turn out too bright, adjust the exposure compensation to -1 or -1.5. Check the aperture and exposure compensation in the **[REC VIEW]** image and



change it if necessary. Noise may occur easily when shooting at slow shutter speeds. Set **[NOISE REDUCTION]** to **[ON]** to reduce the occurrence of noise.

Using manual focus

For cases when the subject is dark and you cannot focus using AF (auto focus) or when you cannot focus in time for pictures such as fireworks, set the focus mode to MF (manual focus) and focus manually. For night scenes, turn the focus ring of the lens and check whether you can see the street lights clearly. For fireworks, as long as the long focus lens is not used, it is okay to adjust to infinite. If you know the approximate distance, you can also focus on something that is found at the same distance in advance.

L*S*[∞] **(P**: Program shooting" (P. 28), **(A**: Aperture priority shooting" (P. 30), "Self-timer shooting" (P. 59), "Remote control shooting" (P. 61), "Focus mode" (P. 66), "Noise reduction" (P. 87), "Rec view — Checking the picture immediately after shooting" (P. 115)

Shooting tips and information

Tips before you start taking pictures

The camera does not turn on even when a battery is loaded

The battery is not fully charged

· Charge the battery with the charger.

The battery is temporarily unable to function because of the cold

 Battery performance declines in low temperatures, and the charge may not be sufficient to turn on the camera. Remove the battery and warm it by putting it in your pocket for a while.

No picture is taken when the shutter button is pressed

The camera has turned off automatically

 To save battery power, if there is no operation even while the camera is on (monitor is lit), the camera goes into sleep mode after a fixed period of time and the camera stops operating. When this happens, the LCD monitor's light will go off. The camera will turn off automatically if there is no further operation for a few hours. The camera will not work until it is turned back on. I "S" "Sleep timer" (P. 116)

The flash is charging

• When the flash is activated and the \$\$ symbol in the control panel or the viewfinder is blinking, this indicates that the flash is charging. Wait for the blinking to stop, then press the shutter button.

Unable to focus

• When the AF confirmation mark in the viewfinder is blinking, it indicates that the camera is unable to focus using AF. Press the shutter button again.

Shooting tips

Focusing on the subject

There are several ways to focus, depending on the subject.

AF frame is not focused on the subject

· Use focus lock to focus the AF frame on the subject. "If correct focus cannot be obtained (Focus lock)" (P. 39)

Other things instead of the subject are focused on the respective AF frames

• Set [•••] (AF frame selection) to [•] and focus on the center of the image. ■ "AF frame selection" (P. 65)

The subject is moving quickly

· Focus the camera on a point roughly the same distance away as the subject you want to shoot (by pressing the shutter button halfway), and then recompose your picture and wait for the subject to enter the frame.

Close up on the subject using macro lens

· When using macro lens to close up on the subject, it is difficult to focus with AF when the enlargement ratio of the subject is bigger. Try using B mode of the live view function. As AF becomes MF automatically, check the display on the LCD monitor, rotate the focus ring and focus manually. I ""Live view" (P. 36)

Subjects that are difficult to focus on

It may be difficult to focus with auto focus in the following situations.

AF confirmation mark is blinking These subjects are not focused.



Subject with low contrast

AF confirmation mark lights up but the subject is not focused

distances



Excessively bright light in center of frame

- (<u>) - v</u> ,z) -



Subject with repeated patterns

>	
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-	

Subjects at different Fast-moving subject Subject not inside AF frame

In any situation, focus on something with high contrast that is at the same distance as the subject, determine the composition and shoot the picture.

Taking pictures without blurring

There are several factors that can cause the picture to blur.

The subject is too dark

• Change the shutter speed to match the brightness of the subject. If the shutter speed is set low to shoot a dark subject, blurring is likely to occur if the subject moves. In addition, when the flash is turned off in SCENE (Scene mode), the shutter speed becomes slower.

Mount the camera on a tripod. Using the remote control (optional) to close the shutter is also effective for reducing blurring.

There are also ways to shoot with [() (D IMAGE STABILIZATION)] under SOLVE (Scene mode). The sensitivity of the ISO changes automatically, allowing you to take pictures in low light situations with the flash off while holding the camera.

The camera or your hand moves when pressing the shutter button.

• Press the shutter button gently or hold the camera securely with both hands.

Taking pictures with less flash

The flash will light up automatically when it is not bright enough. If the subject is too far away, the flash may have no effect. Here is how to take pictures without the flash in this type of situation.

Set SCENE (Scene mode) to [() (D IMAGE STABILIZATION)]

 As the ISO sensitivity increases automatically, you can hand hold the camera and take pictures in low light situations with the flash off.

Increase the [ISO] setting

Increase the value of the [ISO] setting. The image may become grainy.
 ISO — Setting the desired sensitivity to light" (P. 78)

The picture is too grainy

There are several factors that can cause the picture to appear grainy.

Increasing the ISO sensitivity

 When you increase the [ISO] setting, "noise", which appears as spots of unwanted color or unevenness in the color, can be introduced and give the picture a grainy appearance. This camera is equipped with a function to allow shooting at high sensitivity while suppressing noise; however, increasing the ISO sensitivity creates grainier pictures than when using a lower sensitivity.
 ISO — Setting the desired sensitivity to light" (P. 78)

Shooting pictures under low illumination with slow shutter speed

 When shooting pictures in the dark, the shutter speed becomes slow and noise easily occurs. Setting [NOISE REDUCTION] to [ON] removes the noise during shooting and beautiful pictures can be taken. IS "Noise reduction" (P. 87)

Image taken appears whitish

This may occur when the picture is taken in backlight or semi-backlight conditions. This is due to a phenomenon called flare or ghost. As far as possible, consider a composition where strong light source is not taken in the picture. Flare may occur even when a light source is not present in the picture. Use a lens hood to shade the lens from the light source. If a lens hood does not have effect, use your hand to shade the lens from the light.

Taking pictures with the correct color

The reason why there are differences between the colors in a picture and the actual colors taken and the actual color is the light source illuminating the subject. **[WB]** is the function that allows the camera to determine the correct colors. Normally, the **[AUTO]** setting provides the optimal white balance, but depending on the subject, it may be better to experiment with changing the **[WB]** setting.

- · When the subject is in the shade on a sunny day
- When the subject is illuminated by both natural light and indoor lighting, such as when near a window
- When there is no white in the frame
 S^{am} "White balance Adjusting the color tone" (P. 79)

Taking panorama pictures

The **[PANORAMA]** function is only available when the Olympus xD-picture card is used. Cards made by other manufacturers cannot be used. Use the provided OLYMPUS Master to join pictures taken with the panorama mode on the computer. **I** Panorama shooting" (P. 64)

10

Taking pictures of a white beach or snow scene

In normal cases, white subjects such as snow will appear darker than usual when the picture is taken. There are several ways to capture the whiteness.

- Adjust [1] to [+].
- Use [BEACH & SNOW] in SCENE (Scene mode) to take the picture. It is most suitable for taking pictures of the sea in a sunny day or snow-capped mountains. IS "Scene mode" (P. 27)
- Use [[] HI] (Highlight control). Press the shutter button halfway at the center of the viewfinder where you wish to highlight the whiteness. The metered part at the center will be set to appear whiter.
- Use the auto bracketing function to take the picture.

If you do not know the amount of exposure compensation, try using auto bracketing. The compensation value changes a little every time you press the shutter button. If you set a larger exposure compensation, you can change the compensation value either upwards or downwards based on that value and shoot the picture. If a "Exposure compensation — Varying the image brightness" (P. 75)

Taking pictures of a subject against backlight

If the background is too bright compared to the subject, the exposure will be affected at the bright parts and the subject will appear darker. This is because the camera determines the exposure from the brightness of the whole screen.

• Set [(METERING)] to (spot metering) to measure the exposure of the subject in the center of the picture. To change the composition, place the subject in the center of the picture. While holding down the **AFL** button, change the composition and press the shutter button.

IS "Metering mode — Changing the metering system" (P. 73)

 Activate the flash, set the flash mode to [\$] (fill-in flash) and shoot the picture. You can shoot a subject against backlight without the face of the subject appearing dark. [\$] (fill-in flash) is used for shooting against backlight and under fluorescent and other artificial lighting.

Setting the flash mode" (P. 50)

Image turns out too bright or too dark

When taking pictures in **S** mode or **A** mode, the shutter speed or aperture setting displayed in the control panel screen or viewfinder may blink. A red display means that the correct exposure cannot be obtained. If you take the picture as is, the picture will appear too bright or too dark. If that happens, change the aperture setting or shutter speed.

- **I** → "**A**: Aperture priority shooting" (P. 30)
- IS "S: Shutter priority shooting" (P. 32)

Additional shooting tips and information

Increasing the number of pictures that can be taken

The captured image will be recorded on the card. The following ways describe how to record more images.

• Change the image mode.

The size of an image varies with the record mode. When you are not sure of the available card capacity, change the image mode and shoot the picture. The smaller the **[PIXEL COUNT]** and the bigger the **[COMPRESSION]**, the smaller the size of the image becomes. You can select both in **[SQ]** of the record mode.

• Use a card with large capacity. The number of recordable images varies with the capacity of the card. Use a card with large capacity.

Using a new card

If you use a non-Olympus card or a card used for another application, such as for a computer, the message **[CARD FULL]** is displayed. To use this card with this camera, use the **[FORMAT]** function to format the card. IS "Formatting the card" (P. 164)

Extending the useful life of the battery

Performing any of the following operations when not actually taking pictures can deplete the battery power.

- · Repeatedly pressing the shutter button halfway
- · Repeatedly playing back the captured images over a long period of time
- · Using the live view function over a long period

To save battery power, turn off the camera whenever it is not in use.

Functions that cannot be selected from menus

Some items may not be selectable from the menus when using the arrow pad.

- · Items that cannot be set with the current shooting mode
- Items that cannot be set because of an item that has already been set: Combination of **[MACRO]** and **[FLASH MODE]**, etc.

Selecting the optimal record mode

Record modes are divided into 3 main types: RAW, TIFF and JPEG. RAW records without reflecting the settings for exposure compensation, white balance, etc. on the images themselves. TIFF or JPEG records as images that reflect these settings. JPEG also compresses images to reduce the file size when recording them. JPEG is divided into "SHQ", "HQ" and "SQ" types based on the image size (pixel count) or compression rate. The higher the compression rate, the grainier the image will appear when enlarged during display. A rough guide for selection is shown below.

Make fine-adjustments of the shooting settings on the computer

• [RAW]

Concern over roughness as the picture is printed in large size

• [TIFF]

To print large images on full-size paper/To edit and process images on a computer

• [SHQ][HQ] with a large pixel count

To print postcard-size images

· [SQ] with a large pixel count

To send as an e-mail attachment or post on a web site

• [SQ] with a small pixel count

IC "List of record modes" (P. 173)

To restore functions to their settings at the time of purchase

- The settings are saved even when the power is switched off. (When power is switched on in Scene mode, it changes to specific settings.)
- To return to the factory default settings, set [RESET] under [CUSTOM RESET SETTING]. You can select up to 2 types of settings for reset. Set various functions of the camera and register using [RESET1] or [RESET2] under [CUSTOM RESET SETTING]. I rest "Custom reset setting" (P. 103)

Confirming the exposure when it is difficult to view the monitor outdoors

The monitor may be difficult to view and the exposure difficult to confirm when shooting outdoors.

Play back the images taken and use the histogram display to check. Play back a picture, and press the **INFO** button a few times.

The following shows you how to read the histogram display easily.

How to read the histogram

- If the graph has many peaks around here, the image will appear mostly black.
- If the graph has many peaks around here, the image will appear mostly white.

IS "Information display" (P. 93)



Leaving set functions in the camera so that they can be used later

Current camera settings can be stored in **[MY MODE SETUP]**. My Mode can store up to 2 settings. To call up and use My Mode settings, **[]** FUNCTION] must be set to **[MY MODE]**. If you press down the **]** button while taking the picture, the picture can be taken with the registered settings.

FUNCTION] (P. 111), [MY MODE] (P. 112)

Playback tips

Understanding the settings and other information of pictures taken

Play back a picture, and press the **INFO** button. Press the button repeatedly to change the amount of information displayed. Is "Information display" (P. 93)

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Viewing pictures on a computer

Viewing the entire picture on a computer screen

The size of the picture displayed on a computer screen changes depending on the computer settings. When the monitor setting is 1024 × 768 and you are using Internet Explorer to view a picture with an image size of 2048 × 1536 at 100%, the entire picture cannot be viewed without scrolling. There are several ways you can view the entire picture on the computer screen.

View the picture using image browsing software

· Install the OLYMPUS Master software from the provided CD-ROM.

Change the monitor setting

• The icons on the computer desktop may be rearranged. For details of changing the settings on your computer, refer to the computer's manual.

To view recorded images in RAW

Install the OLYMPUS Master software using the provided CD-ROM. You can
use the RAW development function in OLYMPUS Master to set the image to
the setting during shooting and change detailed settings of exposure
compensation and white balance.

When error messages are displayed

Error codes

Viewfinder indications	Monitor indication	Possible cause	Corrective action
Normal indication	I NO CARD	The card is not inserted, or it cannot be recognized.	Insert a card or insert a different card.
E E3≻d]] CARD ERROR	There is a problem with the card.	Insert the card again. If the problem persists, format the card. If the card cannot be formatted, it cannot be used.
р [д⊱d	URITE PROTECT	Writing to the card is prohibited.	The card has been set to read-only setting with the computer. Reset the card with the computer.
No indication	[] CARD FULL	The card is full. No more pictures can be taken or no more information such as print reservation can be recorded.	Replace the card or erase unwanted pictures. Before erasing, download important images to a PC.
No indication	I NO CARD SPACE	There is no space in the card and print reservation or new images cannot be recorded.	Replace the card or erase unwanted pictures. Before erasing, download important images to a PC.
No indication	() NO PICTURE	There are no pictures on the card.	The card contains no pictures. Record pictures and play back.

10

Viewfinder indications	Monitor indication	Possible cause	Corrective action
No indication	PICTURE ERROR	The selected picture cannot be displayed for playback due to a problem with this picture. Or the picture cannot be used for playback on this camera.	Use image processing software to view the picture on a PC. If that cannot be done, the image file is damaged.
oP [d≻d	CARD-COVER OPEN	The card cover is open.	Close the card cover.
۶ 28≻d	CARD ERROR	The card is not formatted.	Format the card.
No indication	BATTERY EMPTY	The battery is drained.	Charge the battery.

Printing-related indications

For more details on solutions, refer to the printer's manual.

Monitor indication	Possible cause	Corrective action	
NO CONNECTION	The camera is not connected to the printer correctly.	Disconnect the camera and connect it again correctly.	
NO PAPER	There is no paper in the printer.	Load some paper in the printer.	

Monitor indication	Possible cause	Corrective action
NO INK	The printer has run out of ink.	Replace the ink cartridge in the printer.
	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 camera and printer. Check the printer and remedy any problems before turning the power on again.
CANNOT PRINT	Pictures recorded on other cameras may not be printed on this camera.	Use a personal computer to print.

Cleaning and storing the camera

Cleaning the camera

Turn off the camera and remove the battery before cleaning the camera.

Exterior:

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

Monitor and viewfinder:

 \rightarrow Wipe gently with a soft cloth.

Lens, mirror and focusing screen:

→Blow dust off the lens, mirror and focusing screen with a commercially available blower. For the lens, wipe gently with a lens cleaning paper.

Storage

- When not using the camera for a prolonged period, remove the battery and card. Store the camera in a cool, dry place that is well ventilated.
- · Insert the battery periodically and test the camera's functions.

Cleaning and checking the image pickup device

This camera incorporates a dust reduction function to keep dust from getting on the image pickup device and to remove any dust or dirt from the image pickup device surface with ultrasonic vibrations. Dust reduction works when the power switch is set to ON. Since dust reduction is activated every time the camera's power is turned on, the camera should be held upright for the dust reduction function to be effective. The SSWF indicator blinks while dust reduction is working. I "Mames of parts" (P. 174)

Notes

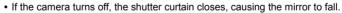
- Do not use strong solvents such as benzene or alcohol, or a chemically treated cloth.
- Avoid storing the camera in places where chemicals are treated, in order to protect the camera from corrosion.
- · Mold may form on the lens surface if the lens is left dirty.
- Check each part of the camera before use if it has not been used for a long time. Before taking important pictures, be sure to take a test shot and check that the camera works properly.

Cleaning mode — Removing dust

If dust or dirt gets on the image pickup device, black dots may appear in the picture. If this happens, contact your Olympus Authorized Service Center to have the image pickup device physically cleaned. The image pickup device is a precision device and is easily damaged. When cleaning the image pickup device yourself, be sure to follow the instructions below.

If a battery is used and power runs out during cleaning, the shutter will close, which may cause the shutter curtain and mirror to break.

- **1** Remove the lens from the camera.
- 2 Set the power switch to ON.
- 3 MENU → [12] → [CLEANING MODE]
- 4 Press 𝔅), then press the ⊛ button.
 - The camera enters the cleaning mode.
- **5** Press the shutter button all the way.
 - The mirror goes up and the shutter curtain opens.
- 6 Clean the image pickup device.
 - Carefully blow off any dust on the surface of the image pickup device by using a mechanical blower (commercially available).
- 7 Be careful not to catch the mechanical blower in the shutter curtain when turning the power off to finish cleaning.



Notes

- Be careful to not let the mechanical blower (commercially available) touch the image pickup device. If the blower touches the image pickup device, the image pickup device will be damaged.
- Never put the mechanical blower behind the lens mount. If the power turns off, the shutter closes, breaking the shutter curtain.
- Do not use anything other than the mechanical blower. If high-pressure gas is sprayed onto the image pickup device, it will freeze on the image pickup device's surface, damaging the image pickup device.



10

Pixel mapping — Checking the image processing functions

The pixel mapping feature allows the camera to check and adjust the image pickup device and image processing functions. It is not necessary to operate this function frequently. Approximately once a year is recommended. After using the monitor or taking continuous shots, wait for at least one minute before using the pixel mapping function to ensure that it operates correctly. Before starting, put on the lens cap and close the eyepiece shutter.

1 MENU ▶ []2] ▶ [PIXEL MAPPING]

- 2 Press (). Use (2) (2) to select [YES], then press the (2) button.
 - The **[BUSY]** bar is displayed when pixel mapping is in progress. When pixel mapping is finished, the menu is restored.





Notes

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

11 Information

Card basics

Usable cards

"Card" in this manual refers to a recording medium. This camera can use CompactFlash, Microdrive or xD-Picture Card (optional).

CompactFlash

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

Microdrive

A Microdrive is a medium that uses a large-capacity compact hard disk drive. You can use a Microdrive that supports CF+Type II (Compact Flash extension standard).

xD-Picture Card

An xD-Picture Card is a recording medium used mainly in compact cameras.



Precautions when using a Microdrive

A Microdrive is a medium that uses a compact hard disk drive. Because the disk drive rotates, a Microdrive is not as resistant to vibration or impact as other cards. Special care is needed when using a Microdrive (especially during recording and playback) to make sure the camera is not subjected to shock or vibrations. Be sure to read the following precautions before using a Microdrive.

Also, refer to the manuals provided with your Microdrive.

- Be very careful when putting the camera down during recording. Place it gently on a firm surface.
- Do not use the camera in places subject to vibrations or excessive shock, such as at a construction site or in a car while driving along a bumpy road.
- Do not take a Microdrive close to areas where it may be exposed to strong magnetism.

Formatting the card

Non-Olympus cards or cards formatted on a computer must be formatted with the camera before they can be used.

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

- 1 MENU → [P] → [CARD SETUP]
- 2 Use இ to select [FORMAT]. Press the ⊛ button.
- 3 Use இ to select [YES]. Press the ⊛ button.
 - Formatting is performed.



When inserting cards into the two card slots,

→ select the card to be used in [CF/xD] of MENU.

MENU ▶ []^{*}₂] ▶ [CF/xD] [CF]/[xD]



Battery and charger

- Use the single Olympus lithium-ion battery (BLM-1). Other batteries cannot be used.
- The camera's power consumption varies widely with usage and other conditions.
- As the following consume a lot of power even without shooting, the battery will be drained quickly.
 - Performing zoom repeatedly.
 - Pressing the shutter button halfway in shooting mode, performing auto focus repeatedly.
 - Displaying images on the LCD monitor for a prolonged period.
 - When connected to a computer or printer.
- When using a drained battery, the camera may turn off without the low battery warning being displayed.
- The battery will not be fully charged at the time of purchase. Charge the battery using the designated charger (BCM-2) before use.
- The normal charging time of the provided charger is approximately 5 hours (estimated).
- Do not use other chargers than the one designated.
- The charger should be used within the voltage range of AC 100–240 V (50/ 60 Hz). If used overseas, a transformer may be necessary. Check with an electrician or travel agent for details.
- Do not use commercially available travel adaptors as the charger may malfunction.

Shooting Menu

Tab	Function		Setting	Ref. page	
D	CARD SETUP	ALL ERASE/FORMAT		P. 101 P. 164	
•	CUSTOM RESET SETTING	RESET RESET1 RESET2	SET/RESET SET/RESET	P. 103	
	PICTURE MODE	₹VIVID*/2€N MONOTONE/	ATURAL/3 MUTED/ SEPIA	P. 85	
	GRADATION	HIGH KEY/NC	ORMAL [*] /LOW KEY	P. 86	
	¢	HQ [*] /SQ/RAW [·] RAW/TIFF/SH	+SHQ/RAW+HQ/RAW+SQ/ Q	P. 72	
	Z	-5.0 - 0.0* - +5	.0	P. 75	
	NOISE REDUCTION	OFF [*] /ON		P. 87	
		AUTO [*]	R -7 - +7 G -7 - +7	_	
	WB	ў: 5300 К	R -7 - +7 G -7 - +7	_	
		ය 6000K	R -7 - +7 G -7 - +7		
		☆ ⊼ 7500K	R -7 - +7 G -7 - +7		
		-셨- 3000K	R -7 - +7 G -7 - +7	P. 81	
		∰ 4000K	R -7 - +7 G -7 - +7	_	
		₩2 4500K	R -7 - +7 G -7 - +7	_	
		端 6600K	R -7 - +7 G -7 - +7	\exists	
			R -7 - +7 G -7 - +7	\exists	
		СШВ	2000K - 14000K		
	ISO	AUTO [*] /100 - 4	00 (Enhanced: 400 - 1600)	P. 78	
			ESP+AF/ESP		
	METERING				
		●HI			
		• SH			

* Factory default setting

Tab	Function		Setting	
		-		
D 2	FLASH MODE	P/A/¶/♥/▲/♥₂: AUTO [*] /@/\$/\$/@SLOW/\$SLOW/ \$SLOW2 /\$FULL/\$1/4/\$1/16/\$1/64 S/M: \$*/@\$/\$/\$/\$SLOW2/\$FULL/\$1/4/\$1/ 16/\$1/64		· P. 50
	<u>\$7</u>	-2.0 - 0.0* - +2.0	I	P. 52
				P. 58
		, (\$)2s/\$)2s/\$		
				P. 61
	AF MODE	S-AF*/C-AF/MF/	/S-AF+MF/C-AF+MF	P. 66
	[]	AUTO [*] / [•]/[•]	VC •]	P. 65
	WB BKT	R-B	OFF [*] /3F 2STEP/3F 4STEP/	P. 43
		G-M	3F 6STEP	
	AE BKT	OFF*/3F 0.3EV/	3F 0.7EV/3F 1.0EV	P. 41
	FL BKT	OFF [*] /3F 0.3EV/3F 0.7EV/3F 1.0EV		P. 53
		OFF [*] /5F 1STEP/5F 2STEP/7F 1STEP/		P. 44
	MF BKT	7F 2STEP		
	ANTI-SHOCK	OFF [*] /1SEC - 30	OFF [*] /1SEC - 30SEC	
	ANTI-SHOCK		SEC	P. 8

Factory default setting

Playback menu

Tab	Function	Setting		
►	Ŀ	@1 [*] /⊞4/⊞9/	@16/@25	page P. 94
	Ġ	OFF/ON [*]		P. 95
		RAW DATA EDIT		
	EDIT	JPEG/TIFF	BLACK & WHITE/SEPIA/	P. 97
		EDIT	REDEYE FIX/	F. 97
		EDIT	SATURATION/	
	L	凸/凸		P. 122
	COPY ALL	YES/NO		P. 99

* Factory default setting

Custom menu

Tab	Function	Setting			
S	ISO STEP	1/3EV [*] /1EV	P. 108		
11	ISO BOOST	OFF*/ON+NF/ON		P. 108	
	ISO LIMIT	OFF*/100/200/400/8	P. 109		
	EV STEP	1/3EV*/1/2EV/1EV		P. 108	
			R -7 - +7		
	ALLWB12	ALL SET	G -7 - +7	P. 109	
		ALL RESET	YES/NO		
	HQ	1/4/1/8*/1/12		P. 72	
	SQ	PIXEL MAPPING	2560x1920/1600x1200/ 1280x960 [*] /1024x768/ 640x480	P. 72	
		COMPRESSION	1/2.7/1/4/1/8*/1/12		
	MANUAL FLASH	OFF [*] /ON		P. 109	
	5 <u>7</u> + <u>7</u>	OFF [*] /ON		P. 52	
	X-SYNC	1/60 - 1/180 [*]		P. 109	
	LIVE VIEW BOOST	OFF [*] /ON		P. 110	
	DIAL	Р	Ps*/₩	P. 110	
	DIAL	М	SHUTTER [*] /FNo.	P. 110	
		S-AF	mode1*/mode2/mode3		
	AEL/AFL	C-AF	mode1/mode2 [*] /mode3/ mode4	P. 106	
		MF	mode1*/mode2/mode3		
	AEL/AFL MEMO	ON/OFF [*]		P. 108	
	AEL METERING	AUTO [*] / [] /•/•	HI/•SH	P. 108	
	QUICK ERASE	OFF [*] /ON		P. 113	
	RAW+JPEG ERASE	JPEG/RAW/RAW+J	PEG [*]	P. 113	
		ା/ၨ/୰ [*] /ୃ⊒/TEST PREVIEW/PREVIE\	PICTURE/MY MODE/ N B	P. 111	
	MY MODE SETUP	MY MODE1/MY MC	DE2	P. 112	
1	FOCUS RING	С [*] /Ѻ		P. 112	
	AF ILLUMINATOR	OFF/ON*		P. 70	
	RESET LENS	OFF/ON*		P. 112	
	RELEASE PRIORITY S OFF [*] /ON RELEASE PRIORITY C OFF/ON [*]			P. 70	
				P. 70	
	FRAME ASSIST	A MODE	OFF [*] /PASSPORT[万]/ PASSPORT[조]	P. 37	
	* Foster: default action	B MODE	OFF [*] /GOLDEN SECTION/ GRID/SCALE	1.57	

* Factory default setting

11 Information

Setup menu

Tab	Function	Setting	Ref.
	Ð		page P. 119
12	CF/xD	CF [*] /xD	P. 164
	FILE NAME	AUTO [*] /RESET	P. 114
	EDIT FILENAME	SRGB Adobe RGB	P. 115
		Lo -7 - 0 [*] - Hi +7	P. 115
	₽.≡	*1	P. 117
	VIDEO OUT	NTSC [*] /PAL	P. 117
	■)))	OFF/ON [*]	P. 115
	REC VIEW	OFF/1SEC - 20SEC (5SEC [*])	P. 115
	SLEEP	OFF/1MIN [*] /3MIN/5MIN/10MIN	P. 116
	4h TIMER	OFF/4h [*]	P. 118
	BUTTON TIMER	3SEC/5SEC/8SEC*/HOLD	P. 117
	SCREEN	OFF/ON [*]	P. 118
	CTL PANEL COLOR	COLOR1 [*] /COLOR2	P. 118
	PRIORITY SET	YES/NO [*]	P. 113
	USB MODE	AUTO [*] /STORAGE/CONTROL/且EASY/ 且CUSTOM	P. 116
	COLOR SPACE	sRGB [*] /Adobe RGB	P. 88
	SHADING COMP.	OFF [*] /ON	P. 86
	PIXEL MAPPING	YES/NO	P. 162
	CLEANING MODE	_	P. 161
	₹₹ ₽	DIAL 🕲 🛂 [*] /DIAL 🐼 🗧	P. 118
	FIRMWARE	_	P. 118

* Factory default setting

^{*1} :Settings differ depending on the region where the camera is purchased.

Available functions by shooting mode

Function		Ρ	A	s	м	۲ م ۲ م ۲ م	SCENE
Aperture value			~	—	~	-	-
	ter speed	—	-	Ň	/	_	_
	shooting		—		\checkmark		-
Z			\checkmark		—	\checkmark	—
ŧ :-						\checkmark	
Flas	h shooting						_
	AUTO	``	/	-	_	√ (Cannot be	—
	۲		/	-	_	selected in mode)	—
ode	SLOW	Ň	(-	_	✓	—
Flash mode	\$SLOW	Ň	(-	_	✓	—
as	© \$	-	_	`	1	—	—
	\$ SLOW2				,	\checkmark	—
	4	√ (Can	not b	e sele	ected in 🛂 mode)	—
	٤				,	\checkmark	—
	TOM RESET TING	✓ —		_			
PIC	FURE MODE	✓ —		—			
GRA	DATION	\checkmark			—		
NO	SE REDUCTION	\checkmark			—		
WB [†]	2	\checkmark			_		
ISO		✓ ✓			_		
WB		\checkmark			_		
经		\checkmark			—		
MET	ERING	\checkmark			_		
D		✓			*1		
છં						\checkmark	
é		✓					
AF r	node	✓			—		
AF target mark		✓		✓ (Cannot be selected in mode)			
AE E	ЗКТ					\checkmark	_
WB	BKT	✓			_		
FL E	BKT	✓			—		

✓: Available —: Not available ^{*1}: , , , are available

Function	Р	A	s	м		¶▲ٿ ★ *:	SCENE
MF BKT	✓ <i>×</i>		—				
ANTI-SHOCK				`	/		—
ISO STEP				`	/		—
ISO BOOST				`	/		—
ISO LIMIT				``	/		—
EV STEP				`	/		—
ALL				`	/		—
HQ						\checkmark	•
SQ						\checkmark	
MANUAL FLASH				``	/		—
弦+				`	(—
\$X-SYNC				`	/		—
LIVE VIEW BOOST						\checkmark	•
DIAL						\checkmark	
AEL/AFL				`	/		—
AEL/AFL MEMO				``	/		—
AEL METERING				``	/		—
QUICK ERASE						\checkmark	•
RAW+JPEG ERASE						\checkmark	
				``	/		—
MY MODE SETUP		`	(_
FOCUS RING						\checkmark	
AF ILLUMINATOR				`	/		—
RESET LENS						\checkmark	
RELEASE PRIORITY S				`	/		—
RELEASE PRIORITY C				`	/		—
FRAME ASSIST					/		く (Cannot be selected in 回 mode)
Ð						\checkmark	
CF/xD						\checkmark	
FILE NAME						\checkmark	
EDIT FILENAME						\checkmark	
						\checkmark	
✓: Available —: Not avai	lable						

Function	Ρ	A	s	м	? ▲ ≝ * *:	SCENE
₽					\checkmark	
VIDEO OUT					\checkmark	
■)))					\checkmark	
REC VIEW					\checkmark	
SLEEP					\checkmark	
4h TIMER					\checkmark	
BUTTON TIMER					\checkmark	
SCREEN					\checkmark	
CTL PANEL COLOR					\checkmark	
PRIORITY SET					\checkmark	
USB MODE					\checkmark	
COLOR SPACE				`	(_
SHADING COMP.				`	/	_
PIXEL MAPPING					\checkmark	
CLEANING MODE					\checkmark	

✓: Available —: Not available

List of record modes

The file size in the table is approximate.

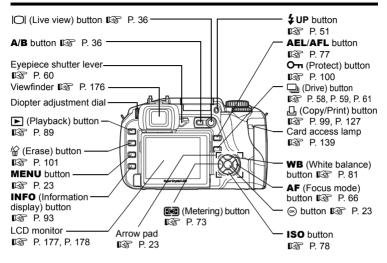
Record mode	Number of pixels	Compression	File format	File size (MB)
RAW		Uncompressed	ORF	12.9
TIFF		Uncompressed	TIFF	21.6
SHQ	3136x2352	1/2.7		5.7
	0100/2002	1/4		4.0
HQ		1/8		1.8
		1/12		1.2
		1/2.7		4.0
	2560x1920	1/4		2.4
	2000X 1920	1/8		1.2
		1/12		0.8
		1/2.7	JPEG	1.4
	1600x1200	1/4		0.9
		1/8		0.5
		1/12		0.3
	1280x960 1024x768	1/2.7		0.9
SQ		1/4		0.6
50		1/8		0.3
		1/12		0.2
		1/2.7		0.6
		1/4		0.4
		1/8		0.2
		1/12		0.1
		1/2.7		0.2
	640x480	1/4		0.2
	0107100	1/8		0.1
		1/12		0.1

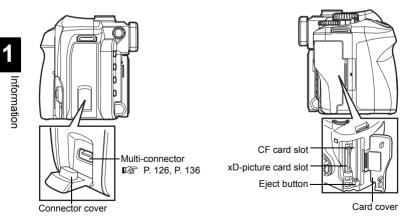
Notes

- The number of remaining pictures may change according to the subject or factors like whether print reservations have been made or not. In certain instances, the number of remaining pictures displayed on the viewfinder or the LCD monitor does not change even when you take pictures or stored images are erased.
- The actual file size varies according to the subject.

Names of parts

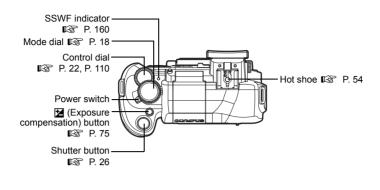
Camera

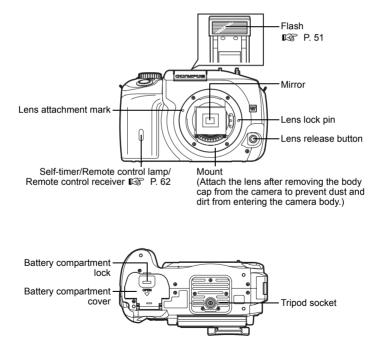




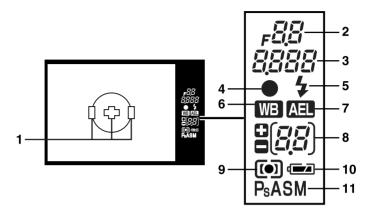
174

1





Viewfinder indications



No.	Items	Indication examples	Ref. page
1	AF frame	000	P. 39, 65
2	Aperture value	₽ 58	P. 28 - 35
3	Shutter speed	250	P. 28 - 35
4	AF confirmation mark	•	P. 39
5	Flash	¥	P. 51
6	White balance	WB	P. 81
7	AE lock	AEL	P. 77
8	Exposure compensation value indication (appears during exposure compensation)	<i>0</i> ,7	P. 75
9	Metering mode	() , () , ()	P. 73
10	Battery check	🖬, 🛋 (blinks)	—
11	Exposure mode	P, Ps, A, S, M	P. 28 - 35

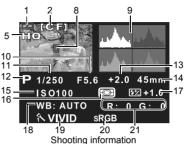
1

LCD monitor indications (during playback)

You can switch the monitor display using the **INFO** (information display) button.



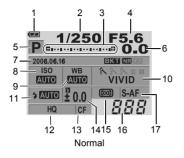
Single-frame playback information

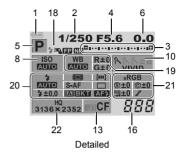


No.	Items	Indication examples	Ref. page
1	Battery check		
2	Card	CF, xD	P. 163
3	Print reservation Number of prints	묘 x10	P. 120
4	Protect	Оп	P. 100
5	Record mode	RAW, TIFF, SHQ, HQ, SQ	P. 72
6	Date and time	06. 06. 16. 21:56	P. 119
7	File number Frame number	€ ⊞ 100-0030 30	P. 93
8	AF frame		P. 65
9	Histogram		P. 93
10	Aperture value	F2.8	P. 28 - 35
11	Shutter speed	1/4000	P. 28 - 35
12	Exposure mode	P, A, S, M, 🕥, 🏊, 🖏, 🗞, 🏂	P. 25 - 35
13	Exposure compensation	0.7	P. 75
14	Focal distance [*]	45 mm	P. 189
15	ISO	AUTO, ISO 100, ISO 200, ISO 400	P. 78
16	Metering mode	€ , ●, ●HI, ●SH	P. 73
17	Flash intensity control	+0.5	P. 52
18	White balance	WB: AUTO	P. 81
19	Picture mode	へVIVID	P. 85
20	Color space	sRGB, Adobe RGB	P. 88
21	White balance compensation	R: +3, G: -2	P. 84

* The focal distance is displayed in 1 mm units.

Control panel screen





No.	Items	Indication examples	Ref. page
1	Battery check	() , ()	—
2	Shutter speed	1/2000	P. 28 - 35
3	Exposure compensation indicator Exposure level indicator Flash intensity level indicator	<u>فانالیا</u> ف	P. 76 P. 35 P. 52
4	Aperture value	F2.8	P. 28 - 35
5	Exposure mode	P, A, S, M, 😭 📥, 🖏, 🗞 , 🍫	P. 25 - 35
6	Exposure compensation value	+2.0	P. 75
7	Date and time Auto bracketing Noise reduction Live view	06. 06. 16, 21:56 EKT NB KB	P. 119 P. 40 P. 87 P. 36
8	ISO	AUTO, 100, 200, 400	P. 78
9	White balance	<u> 条, </u>	P. 81
10	Picture mode	糸VIVID	P. 85
11	Flash mode	◎ \$, \$	P. 50
12	Record mode	RAW+SHQ	P. 72
13	Card	D, CF	P. 164
14	Flash intensity control	\$ +2.0	P. 52
15	Metering mode	🔊, I), I, I, II, ISH	P. 73

Information

No.	Items	Indication examples	Ref. page
16	Number of storable still pictures	135	—
17	Focus mode	S-AF	P. 66
18	Super FP flash	" ₽ ₽	P. 55
10	Noise reduction	NR	P. 87
19	White balance	染 ,	P. 81
19	White balance compensation	R+3, G-2	P. 84
	Flash mode	© \$	P. 49
	Flash intensity control	\$ +2.0	P. 52
	Metering mode	() , () , ()	P. 73
	Focus mode	S-AF	P. 66
20	AF frame	[]	P. 65
	Sequential shooting/ Self-timer/Remote control	旦, ў2s, i	P. 58 - 61
	Live view	(A), (B)	P. 36
	Auto bracketing	ВКТ	P. 40
	AF illuminator	AF\$	P. 70
	Color space	sRGB, Adobe RGB	P. 88
	Sharpness	(s) +2	P. 85
21	Contrast	(c) +2	P. 85
	Saturation	RGB +2	P. 85
	Gradation	8,8H,8L	P. 86
22	Record mode Pixel count	RAW+SHQ 1280x960	P. 72

Camera specifications

Product type		
Product type	:	Single-lens reflex digital camera with interchangeable lens system
Lens		Zuiko Digital, Four Thirds System Lens
Lens mount	-	Four Thirds mount
Equivalent focal length on		
a 35 mm film camera		Approx. twice the focal length of the lens
Image pickup device		
Product type		4/3 type Live MOS sensor
No. of effective pixels		Approx. 7,500,000 pixels
Screen size Aspect ratio		17.3 mm (H) x 13.0 mm (V) (0.7" x 0.5") 1.33 (4:3)
Viewfinder	•	1.55 (4.5)
		Eve level single long reflex viewfinder
Product type Field of view	:	Eye-level single-lens reflex viewfinder Approx. 95 % (for field of view on recorded images)
Viewfinder magnification	:	Approx. 0.92x (-1 m-1, 50 mm lens, infinity)
Eye point	÷	18 mm (0.7") from the cover glass (-1 m-1)
Diopter adjustment range	:	-3.0 - +1.0 m -1
Optical path fraction	:	Quick return half mirror
Depth of field	:	Can be checked with the button (when PREVIEW
Focusing		registered)
Screen	÷	Fixed
Eyecup	÷	Interchangeable
Eyepiece shutter	:	Built-in
Live view		
A mode	:	Full-time Live view
		Uses CCD exclusively for viewfinder
		Field of view of approx. 92 %
		TTL auto-exposure Automatic white balance
		Auto focus
B mode	:	Macro Live view
		Uses Live MOS sensor for shooting
		Field of view of 100 %
		TTL auto-exposure
		Automatic white balance Manual focus (MF)
Monitor		
Product type		2.5" TFT color LCD (Hyper crystal LCD)/vertically
	•	movable type
Total no. of pixels	:	Approx. 215,000 pixels
Shutter		•
Product type	:	Computerized focal-plane shutter
Shutter		1/4000 - 60 sec.
		Manual mode: Bulb (Limit: 8 min.)

Auto focus Product type : TTL phase-contrast detection system Focusing point : 3-point multiple AF (left, center, right) AF luminance range · FV 0 - EV 19 Selection of focusing point: Auto, Optional AF illuminator : The built-in flash provides light, (light can also be provided by an external electronic flash.) Exposure control Metering system : TTL full-aperture metering system (1) Digital ESP metering (2) Center weighted averaging metering (3) Spot metering (approx, 2% for the viewfinder screen) : (1)EV 2 - 20 (Digital ESP metering, Center weighted Metering range average metering) (2) EV 3 - 17 (Spot metering) (At normal temperature, 50 mm F2, ISO 100) : (1)P: Program AE (Program shift can be performed) Exposure mode (2) A: Aperture priority AE (3) S: Shutter priority AE (4) M: Manual ISO sensitivity : 100 - 400 (High ISO values (400 - 1600) are available) : Exposure can be adjusted in 1/3, 1/2 or 1 EV step Exposure compensation within a range of ± 5 EV White balance Product type : Image pickup device : Auto, Preset WB (7 settings), Customized WB, One-Mode setting touch WB Recording : CF card (Compatible with Type I and II) Memory Microdrive (Compatible with FAT 16/32) xD-Picture Card Recording system : Digital recording, TIFF (non-compression), JPEG (in accordance with Design rule for Camera File system (DCF)), RAW Data : Exif 2.2. Digital Print Order Format (DPOF), PRINT Applicable standards Image Matching III, PictBridge Playback Playback mode : Single-frame playback, Close-up playback, Index display, Image rotation, Slideshow, Light box display, Calendar display : Information display, Histogram display Information display Drive Drive mode : Single-frame shooting, Sequential shooting, Self-timer, Remote control Sequential shooting : 3 frames/sec. (Max. no. of storable sequential pictures: 4 frames in RAW/TIFF) Self-timer : Operation time: 12 sec., 2 sec. : Operation time: 2 sec., 0 sec. (instantaneous shooting) Optical remote control (RM-1 Remote Control (optional))

Flash

Synchronization Flash control mode External flash attachment	: Synchronized with the camera at 1/180 sec. or less : TTL-AUTO (TTL pre-flash mode), AUTO, MANUAL : Hot shoe		
External connector			
USB connector/AV connector	ctor (Multi-connector)		
Power supply			
Battery	: BLM-1 Li-ion Battery x1		
■ Dimensions/weight			
Dimensions	: 140 mm (W) x 87 mm (H) x 72 mm (D) (5.5" x 3.4" x 2.8") (excluding protrusions)		
Weight	: Approx. 550 g (1.2 lb.) (without battery)		
Operating environment			
Temperature	: 0 - 40 °C (32°F - 104°F) (operation)/ -20 - 60 °C (-4°F - 104°F) (storage)		
Humidity	: 30 - 90 % (operation)/10 - 90 % (storage)		

Battery/charger specifications

BLM-1 Li-ion battery

MODEL NO. Product type Nominal voltage Nominal capacity No. of charge and	: PS-BLM1 : Rechargeable Lithium ion battery : DC 7.2 V : 1500 mAh
discharge times	: Approx. 500 times (vary with usage conditions)
Ambient temperature	: 0 °C - 40 °C (charging)
	-10 °C - 60 °C (operation)
	-20 °C - 35 °C (storage)
Dimensions	: Approx. 39 mm (W) x 55 mm (D) x 21.5 mm (H)
Weight	: Approx. 75 g (without protection cap)

BCM-2 Li-ion charger

MODEL NO. Rated input Rated output	: PS-BCM2 : AC 100 V - 240 V (50/60 Hz) : DC 8.35 V. 400 mA
Charging time	: Approx. 300 mins. (approx. 5 hrs.)
	(room temperature: if using BLM-1)
Ambient temperature	: 0 - 40 °C (32°F - 104°F) (operation)/ -20 - 60 °C (-4°F - 104°F) (storage)
Dimensions Weight	: Approx. 62 mm (W) x 83 mm (D) x 26 mm (H) : Approx. 72 g (without AC cable)
- 3 -	FF - 5 (· · · · · · ·)

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

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 correct 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. Aperture is measured in f/stops. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

Center weighted averaging metering

A light metering mode or technique that uses an average of the center and periphery of the image area but is biased toward the information at the center of the image area. This method is best used when the brightness of the center and periphery of the image area does not vary greatly. See also digital ESP metering and spot metering.

Color space

A model that describes colors using more than three coordinates. Color spaces such as sRGB, Adobe RGB are occasionally used for encoding/ reproducing colors.

Color temperature

The spectral balance of different white light sources is rated numerically by color temperature — a concept of theoretical physics that, with incandescent lighting, corresponds roughly to the absolute lamp filament temperature, expressed on the Kelvin (K) temperature scale. The higher the color temperature, the richer the light in bluish tones and the poorer in reddish; the lower the color temperature, the richer the light in reddish tones and the poorer in bluish. You may encounter difficulties with color reproduction when shooting indoors under fluorescent lighting, or where sunlight and fluorescent lighting are both present. Your camera is provided with a white balance adjustment feature that you can use to compensate for the odd effects of combinations of color you may occasionally see in your pictures.

Compression rate

Compression is a method of reducing file size by abbreviating some contents of data, and compression rate denotes the amount of compression. The actual effect of the selected compression rate could vary with the content of the image. The numbers for the compression rate selected with this camera provide only a general scale for reference and are not precise measurements.

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

Depth of Field refers to the distance from the nearest to the furthest point of perceived "sharp" focus in a picture.

Digital ESP (Electro-Selective Pattern) Light Metering

This determines the exposure by splitting the image into 49 areas and metering and calculating the light levels in each area.

DPOF (Digital Print Order Format)

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can easily have the desired images printed by a printer or print lab that supports the DPOF format.

Eclipsing (Vignetting)

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

EV (Exposure Value)

A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO settings.

Exposure

The amount of light used to capture an image. The exposure is determined by the length of time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Image pickup 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.

ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)

A compression format for color still images. Photographs (images) shot using this camera are recorded onto the card in JPEG format when the Record mode is set to SHQ, HQ, SQ. 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.

Number of Pixels (PIXEL COUNT)

The number of dots (pixels) used to create an image denotes the image size. For instance, an image in 640×480 pixel count is the same size as the computer screen if the monitor setting is also 640×480 . If the monitor setting is 1024×768 , the image only takes up part of the screen.

P (Program) Mode

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

PictBridge

A standard that enables digital cameras and printers made by different manufacturers to be connected, and also allows pictures to be printed directly from the camera.

Pixels

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

RAW

Refers to raw data, data which has not been enhanced with a camera option like white balance, sharpness, contrast, etc. This file format is for viewing and processing with our own software. You may not be able to open or process these files with other graphics software applications, and these files cannot be selected for DPOF printing. RAW files are assigned an orf file extension (*.orf).

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.

Single-lens reflex camera

A camera that uses the reflective mirror to bend the light entering from the shooting lens and uses the viewfinder to check. There is no difference between the composition to be captured and the composition viewed on the viewfinder.

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, menu button, etc.).

Spot metering

The meter reading is taken from a very small area around the center of the subject, defined by the spot metering area mark in the viewfinder. Spot metering is ideal for use in difficult light conditions, or when the important element of the picture (subject's face) is small. Use spot metering for backlit subjects, or sports and stage performers. See also digital ESP metering and center weighted averaging metering.

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. Non-compressed image data are stored in this format with this camera.

TFT (Thin-Film Transistor) Color Monitor

A color monitor constructed using thin-film technology.

TTL phase-contrast detection system

This is used to measure the distance to the subject. The camera determines if the image is focused by the detected phase contrast.

TTL (Through-The-Lens) System

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

12 Interchangeable lenses

Lens basics

Usable lenses

Select the lens that you want to shoot with.

Use a specified Four Thirds lens (Four Thirds mount). When a non-specified lens is used, AF (auto focus) and light metering will not function correctly. In some cases, other functions may not work either.

Four Thirds mount

Developed by Olympus as the lens mount standard for the Four Thirds system. These all-new interchangeable lenses featuring the Four Thirds mount were developed from the ground up based on optic engineering exclusively for digital cameras.

ZUIKO DIGITAL interchangeable lens

Four Thirds system interchangeable lens designed to withstand rigorous professional use. The Four Thirds system makes it possible for a fast lens to be compact and lightweight as well.

The Four Thirds system interchangeable lens lineup includes a wide range of products in addition to those listed below:

ZUIKO DIGITAL ED 50 mm - 200 mm f2.8 - 3.5:

Super telephoto zoom lens equivalent to 100 - 400 mm on a 35 mm film camera ZUIKO DIGITAL 40 mm - 150 mm f3.5 - 4.5:

Telephoto zoom lens equivalent to 80 - 300 mm on a 35 mm film camera

Notes

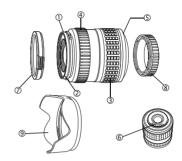
- When you attach or remove the body cap and lens from the camera, keep the lens mount on the camera pointed downward. This helps prevent dust and other foreign matter from getting inside the camera.
- Do not remove the body cap or attach the lens in dusty places.
- Do not point the lens attached to the camera toward the sun. This may cause the camera to malfunction or even ignite due to the magnifying effect of sunlight focusing through the lens.
- Be careful not to lose the body cap and rear cap.
- Attach the body cap to the camera to prevent dust from getting inside when no lens is attached.

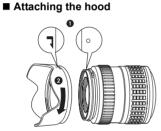
12

ZUIKO DIGITAL interchangeable lens

ZUIKO DIGITAL 14-45 mm f3.5-5.6

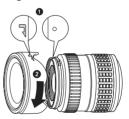
- Names of parts
 ① Hood mount section
 ② Filter mount thread
 ③ Zoom ring
 ④ Focus ring
 - **S** Mount index
 - **© Electrical contacts**
 - **Ø Front cap**
 - ® Rear cap
 - **9** Lens hood





Use the hood when shooting a backlit subject.

Storing the hood





Main Specifications

Mount	FOUR THIRDS mount
Focal distance	14 - 45 mm
Max. aperture	f3.5 - 5.6
Image angle	75 ° - 27 °
Lens configuration	10 groups, 12 lenses
	Multilayer film coating (partially single layered)
Iris control	f3.5 - 22
Shooting range	0.38 m (1.2ft) - ∞ (infinity)
Focus adjustment	AF/MF switching
Weight	285 g (10.1oz) (excluding hood and cap)
Dimensions	ø71 x 86.5 mm
Lens hood mount	Bayonet
Filter mount thread diameter	58 mm

Can be used with the optional EX-25 extension tube under the following conditions:

Focal distance	Focus adjustment	Shooting range	Magnification (): Calculated based on 35 mm film camera
14 mm Shooting is not possible since subjects cannot be brout this focal length.			cts cannot be brought into focus at
25 mm	MF	15.3 cm - 15.7 cm	0.99 - 1.14x (1.98 - 2.28x)
45 mm	MF	20.8 cm - 23.5 cm	0.57 - 0.78x (1.14 - 1.56x)

Storage Precautions

- Clean and keep the lens after use. Remove dust and dirt on the surface of the lens with a blower brush or brush. Use commercially available lens cleaning paper to remove the dirt on the lens.
- · Always cap the lens and store it when it is not used.
- Do not use organic solvents.

Notes on Shooting

· Edges of pictures may be cut off if more than one filter is used or if a thick filter is used.

13 Others

Handling and storage precautions

Camera

- To protect the high-precision technology contained in this product, never leave the camera in the places listed below, no matter if in use or storage:
 - Places where temperatures and/or humidity are high or go through extreme changes
 Direct sublicht, begebes, locked care, or poor other heat courses (ctore)

Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers

- · In sandy or dusty environments
- · Near flammable items or explosives
- · In wet places, such as bathrooms or in the rain
- In places subject to strong vibrations
- Never drop the camera or subject it to severe shocks or vibrations.
- Do not leave the camera pointed directly at the sun. This may cause lens damage, color failure, ghosting on the image pickup device, or may possibly start a fire.
- Condensation may form inside the camera when there is a sudden extreme change in temperature (such as when moving from indoors to outdoors). Acclimatize the camera to the temperature (e.g. by putting the camera into a plastic bag) before use.
- If the camera has not been used for a long time, mold may form or the camera may malfunction. Before using the camera, check that the camera works properly.
- Do not touch electric contacts on cameras and interchangeable lenses. Remember to attach the cap when removing the lens.

Battery

- At the time of purchase
 - The battery is not charged at the factory. Charge it before use. Also, whenever the battery has not been used for a long period, recharge it before use.
 - Check that the battery terminals are clean before use. If they are dirty, contact failure may cause problems with charging or shorten the battery's operation time after charging.

Care

- Clean the battery/charger and terminals by wiping them with a soft, dry cloth. Never use a wet cloth, alcohol, lacquer thinner, benzene or detergent.
- Operating temperatures
 - Use the battery within the operating temperature range specified for the camera.
 - Even within the specified operating temperature range, battery operation time decreases as the temperature drops. When the temperature is low, it is recommended to carry a spare charged battery and keep it warm in a pocket, bag, etc. When carrying a battery in your pocket, be sure to cover the battery terminals with the provided protection cap to prevent shortcircuiting. Do not put anything else in the pocket with the battery.
 - The optimum ambient temperature for charging is between 10 $^{\rm o}{\rm C}$ and 30 $^{\rm o}{\rm C}$ (50 $^{\rm o}{\rm F}$ and 86 $^{\rm o}{\rm F}$).
 - When a battery is warm or hot, as is the case when it has recently been used, recharging may not be performed properly. For best results, wait until the battery temperature cools down before recharging it.
- Transport and storage
 - Do not leave the battery in the charger or camera. Even when the power switch is set to off, a small amount of current continues to flow and may lead to a decrease in battery performance. When not using the battery, attach the provided protection cap and store it in a cool, dry place with a temperature between 15 °C and 25 °C (59 °F and 77 °F).
 - When transporting or storing the battery, attach the provided protection cap to prevent short-circuiting of the +/- terminals. Do not put any metallic objects including personal ornaments in a bag or drawer with the battery. This could cause a fire, overheating, explosion or leakage.
- Service life
 - Battery performance degrades gradually after repeated charging and discharging. When operation time has decreased significantly, you may need to replace the battery. Battery capacity is usually reduced by half after about 500 charge/discharge cycles (though this varies depending on the operating conditions).
- Recycling the battery
 - Please recycle batteries to help save our planet's resources.
 When you throw away dead batteries, be sure to cover their + and terminals and always observe local laws and regulations.
- Notes on charging
 - The charger and the battery heat up during charging. This is not a malfunction.
 - TV or radio reception may be interfered with during charging. This is not a malfunction. To avoid interference, move the battery charger further away from the TV or radio.

- Overseas use
 - To use the charger in another country, you may need a conversion plug that matches the design of the power outlets in that country. To find out what type of conversion plug or adapter is required, please consult a travel agent. Do not use an electronic transformer (travel converter) as this will cause malfunction.

LCD monitor

- Do not push the monitor forcibly; otherwise the image may become fuzzy, resulting in a playback mode failure or damage to the monitor. If the monitor is damaged, be careful not to get any of the liquid crystals from the monitor in your mouth. If liquid crystals get on your limbs or clothes, wash them off.
- A strip of light may appear on the top/bottom of the monitor. This is not a malfunction.
- When a subject is viewed diagonally in the camera, the edges may appear to zigzag on the monitor. This is not a malfunction; It will be less noticeable in playback mode.
- In places subject to low temperatures, the LCD monitor may take a long time to turn on or its color may change temporarily. When using the camera in extremely cold places, it is a good idea to occasionally place it in a warm place. A LCD monitor exhibiting poor performance due to low temperatures will recover in normal temperatures.
- The LCD monitor is made with high-precision technology. However, black spots or bright spots of light may appear on the LCD monitor. These spots may not be uniform in color and brightness depending on their characteristics or the angle at which you are viewing the monitor. This is not a malfunction.

Lens

- Do not immerse in water or splash with water.
- Do not drop or exert strong force on the lens.
- Do not hold at the moving part of the lens.
- Do not touch the lens surface directly.
- Do not touch the contact points directly.
- Do not subject to abrupt temperature changes.
- Do observe the operating temperature limit.

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OLYMPUS IMAGING CORP.

Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan

- OLYMPUS IMAGING AMERICA INC. -

Two Corporate Center Drive, P.O. Box 9058, Melville, NY 11747-9058, U.S.A. Tel. 1-631-844-5000

Technical Support (USA)

24/7 online automated help: http://www.olympusamerica.com/E1 Phone customer support: Tel. 1-800-260-1625 (Toll-free)

Our phone customer support is available from 8 am to 10 pm (Monday to Friday) ET E-Mail: e-slrpro@olympusamerica.com Olympus software updates can be obtained at: http://www.olympus.com/digital

OLYMPUS IMAGING EUROPA GMBH =

Premises: Wendenstrasse 14-18, 20097 Hamburg, Germany Tel: +49 40-23 77 3-0 / Fax: +49 40-23 07 61

Goods delivery: Bredowstrasse 20, 22113 Hamburg, Germany

Letters: Postfach 10 49 08, 20034 Hamburg, Germany

European Technical Customer Support:

Please visit our homepage http://www.olympus-europa.com or call our TOLL FREE NUMBER* : 00800 - 67 10 83 00

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