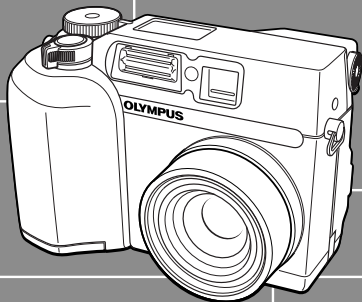


OLYMPUS®

CAMERA
DIGITAL CAMERA

C-3020ZOOM



REFERENCE MANUAL

- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.

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.

For customers in North and South America

For customers in USA

Declaration of Conformity

Model Number : C-3020ZOOM

Trade Name : OLYMPUS

Responsible Party : Olympus America Inc.

Address : 2 Corporate Center Drive, Melville, New York
11747-3157 U.S.A.

Telephone Number : 631-844-5000

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

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

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

For customers in Canada

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

Trademarks

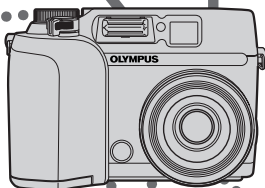
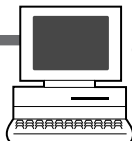
- IBM is a registered trademark of International Business Machines Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Computer Inc.
- All other company and product names are registered trademarks and/or trademarks of their respective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

Major features

Stores your pictures on SmartMedia (card).



Picture transfer to a computer



Exposure modes to suit various applications.

S-Prg: Scene program

P: Program auto

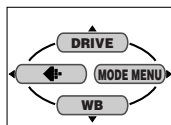
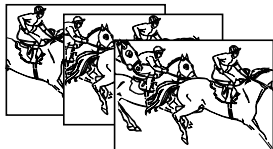
A: Aperture priority

S: Shutter priority

M: Manual mode

: My mode

Take sequential shots!



Easy menu operation

Menus are grouped according to function.

AEL /



Assign a function you use frequently to this button.



Record movies!

In addition to still pictures, you can also record movies.

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Index display/Close-up
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(P. 135, 136)

Control panel
(P. 13, 14)

Shutter button (P. 71)

Self-timer lamp
(P. 152)

Flash
(P. 92)

Strap eyelet
(P. 24)

Lens

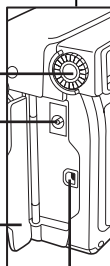
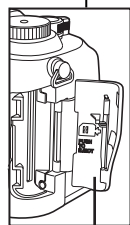
Diopter adjustment dial (P. 35)

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Connector cover (P. 175)

Card cover (P. 29)

USB connector (P. 175)



Macro/Spot button () (P. 102, 107)

Print button () (P. 164)

Erase button () (P. 141)

Flash mode button ()
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Mode dial

(S-Prg, A/S/M/  , P, OFF, )
(P. 30, 64, 65, 69, 130)

Viewfinder (P. 12)

Arrow pad (  )

Monitor
(P. 15–19)

OK/Menu button
(P. 46)

Manual focus button
() (P. 77)

AE lock button (AEL) (P. 104)

Custom button () (P. 146)

Protect button () (P. 140)

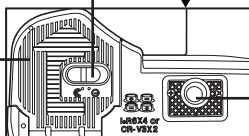
Monitor button
() (P. 81)

Card access lamp
(P. 71)

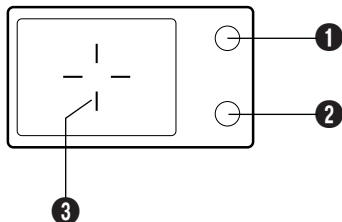
Battery compartment lock (P. 25, 26)

Battery
compartment
cover (P. 25)

Tripod socket
(P. 152)



Viewfinder indications



1 Orange lamp (P. 79, 92)

- In some situations, this lamp lights up when you press the shutter button halfway. This indicates that the flash will fire when the picture is taken.
- Lights when you start movie recording and remains lit while it is in progress.
- Blinks if the flash is required for a particular shot and the flash is turned off.
- If this lamp blinks just after you change from the flash override mode to another mode or after you shoot with the flash, it means that the flash is recharging. Wait until the lamp stops blinking, then press the shutter button.

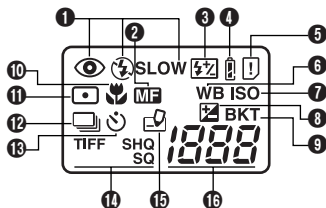
2 Green lamp (P. 72, 79)

- When you press the shutter button down halfway to lock focus and exposure, this lamp lights. If the subject is out of focus, the lamp blinks.
- Blinks when pressing the shutter button will not release the shutter because of any proper reason such as ongoing image processing performed after every shooting and no more memory space for another shooting.
- Blinks when there is a problem with the card.

3 AF target mark (P. 72, 79)

- Place this on the subject in order to focus on it.

Control panel indications



1 Flash mode (P. 88–91)

- Displayed when the flash mode is selected by pressing the (flash mode) button.

No indication: Auto-flash, : Red-eye reduction flash, : Fill-in flash, SLOW: Slow synchronization flash, : Off (flash override)

2 Manual Focus (P. 77, 78)

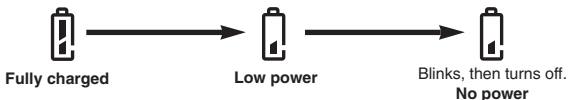
- Displayed when locking focus using the Manual focus function.

3 Flash intensity control (P. 95)

- Displayed when the amount of the light emitted by the flash is adjusted.

4 Battery check (P. 26)

- When remaining battery power is low, the battery check indication changes as follows:



- Be aware that the time when the battery check indication appears varies depending on the type of batteries used.

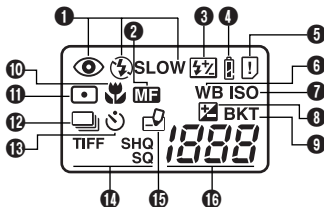
5 Card error (P. 31, 196, 197)

- When the power is turned on, the camera checks the removable memory card. If there is a problem with the card, this indication appears.

6 White balance (P. 122)

- Displayed when the White balance is set to any mode except AUTO.

Control panel indications (Cont.)



7 ISO (P. 118)

- Displayed when the ISO is set to any mode except AUTO.

8 Exposure compensation (P. 120)

- Displayed when exposure compensation is set to any value except 0.

9 Auto-bracket (P. 99)

- Displayed when the drive mode is set to the Auto-bracket mode.

10 Macro mode (P. 107)

- Displayed when the macro mode is engaged.

11 Spot metering mode (P. 102)

- Displayed when the Spot metering mode is set.

12 Sequential shooting (P. 98)

- Displayed when the drive mode is set to Sequential shooting or AF Sequential shooting.

13 Self-timer mode (P. 152)

- Displayed when self-timer mode is set.

14 Record mode (P. 114) (TIFF, SHQ, HQ, SQ)

- Displays the mode in which images will be recorded.

15 Card writing

- Displayed when images are being written to a removable memory card.

16 Number of storable still pictures (P. 115)

- Displays the number of still pictures you can shoot.

Seconds remaining (Movie mode only) (P. 115)

- Displays available movie recording time.

Card error (P. 31)

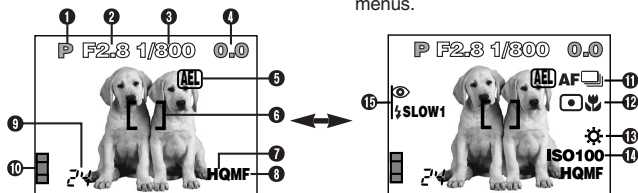
- Displayed if there is a problem with the removable memory card.
→ See "Error codes" on P. 196, 197.

Monitor indications — Shooting information

The indications vary depending on the shooting mode.

The information below is always displayed in the shooting mode.

The information below is displayed for about 3 seconds after operating the buttons/mode dial or closing the menus.



* These illustrations show examples of indications displayed when the mode dial is set to P.

1 Shooting mode (P. 64, 65)

- Displays the shooting mode.

S-Prg: Scene program mode (: Portrait mode, : Sports mode, : Landscape mode, : Night-scene mode, : Movie mode),
P: Program mode, **A:** Aperture priority mode, **S:** Shutter priority mode, **M:** Manual mode, : My mode

2 Aperture value (P. 67)

- Displays the current aperture value.

3 Shutter speed (P. 68)

- Displays the current shutter speed.

4 Exposure compensation (P. 120)

- Displays the current exposure (brightness) compensation value.

Exposure differential (M mode only) (P. 70)

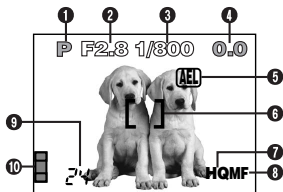
- Displays the difference between the exposure determined by the currently selected combination of the aperture and shutter speed and that considered optimal by the camera.

5 Exposure lock (P. 104–106)

AEL : AE lock

- The exposure is locked until single-frame shooting is performed. After you shoot, the indication disappears.

Monitor indications — Shooting information (Cont.)



MEMO : AE memory

- The exposure is locked and retained in memory even after shooting.
This indicator is displayed until the AE memory is turned off.

6 AF target mark (P. 71, 73)

- Place this on the subject in order to focus on it.

7 Record mode (P. 114) (TIFF, SHQ, HQ, SQ)

- Displays the record mode that was selected on the menus.

8 Manual Focus (P. 77, 78)

- Displayed when locking focus using the Manual focus function.

9 Number of storable still pictures (P. 115)

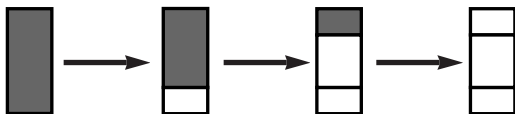
- Displays the number of still pictures you can shoot.

Seconds remaining (Movie mode only) (P. 115)

- Displays available movie recording time for one-time shutter operation.

10 Memory gauge (P. 83, 85)

- Displays the amount of space used by the pictures stored in the built-in memory (Pictures are stored in internal memory before they can be transferred to the removable memory card. Internal memory is not used for permanent storage). If you take pictures continuously, the indication changes as shown below.



The memory gauge changes depending on the number of storable pictures or seconds remaining.

Monitor indications — Shooting information (Cont.)



11 Drive mode (P. 98)

- Displayed when the drive mode is set on the menus.
□ : Single-frame shooting, □ : Sequential shooting, AF□ : AF Sequential shooting, ⌚ : Self-timer shooting, BKT : Auto-bracket

12 Spot metering/Macro mode (P. 102, 107)

- Displayed when the Spot metering/Macro mode is selected by pressing the ⌂/□ (Macro/Spot) button.
No indication: Digital ESP (factory default setting), □ : Spot metering, ⌂ : Macro, □⌂ : Spot metering+Macro

13 White balance (P. 122)

- Displayed when WB is set on the menus.
No indication: AUTO, ☀ : Daylight, ☁ : Overcast, 🔥 : Tungsten light, 💡 : Fluorescent, 📷 : One touch white balance

14 ISO (P. 118)

- Displays the ISO (AUTO, 100, 200 or 400) selected on the menus. Even if AUTO is selected, the ISO changes to 100 when the Mode dial is set to A/S/M/⌂. Even if AUTO is selected, the ISO is automatically increased when the flash is not used in low-light situations in order to prevent blurring due to camera movements.

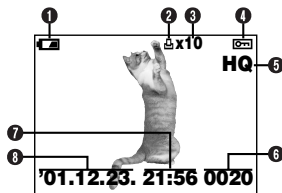
15 Flash mode (P. 88–91)

- Displayed when the flash mode is selected by pressing the ⚡ (flash mode) button.
No indication: Auto-flash, 👁 : Red-eye reduction flash, ⚡ : Fill-in flash, ⚡ SLOW1/⚡ SLOW2/👁 ⚡ SLOW1: Slow synchronization flash, ⌚ : Off (flash override)

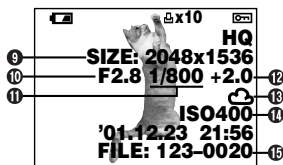
Monitor indications — Playback information

INFO setting on the Menu allows you to select how much information to display on the menu (P. 134).

Still picture playback information



When INFO is set to OFF



When INFO is set to ON

1 Battery check

- The battery check indication changes as follows:



Fully charged Low power

- Be aware that the time remaining varies depending on the type of batteries used.

2 Print reserve (P. 164, 165)

- Displayed when the Print reserve is set.

3 Number of prints (P. 164, 165)

- Displays the number of prints to be produced.

4 Protect (P. 140)

- Displayed when the picture is protected.

5 Record mode

6 Frame number

7 Time

8 Date

- The year 2001 is displayed as '01.

9 Number of pixels

10 Aperture value

11 Shutter speed

12 Exposure compensation

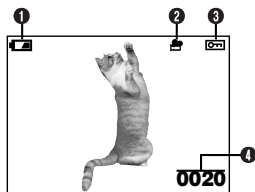
13 White balance

14 ISO

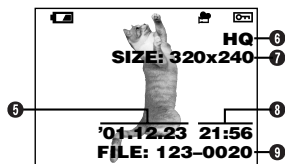
15 File number/Frame number

Monitor indications — Playback information (Cont.)

Movie playback information



When INFO is set to OFF



When INFO is set to ON

1 Battery check (P. 18)

2 Movie mark (P. 130)

3 Protect (P. 140)

- Displayed when the picture is protected.

4 Frame number

5 Date

- The year 2001 is displayed as '01.

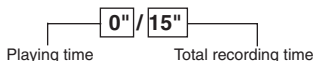
6 Record mode

7 Number of pixels

8 Time

9 File number/Frame number

- During movie playback, the recording time appears as follows:



Note:

- The indications that appear on a movie picture that has been selected and displayed from the thumbnail display are different from those that appear when the movie picture is displayed using the movie play function (P. 130, 132).

How to use this manual

The instructions in this manual use a series of numbers for each operating procedure and button/dial illustration. Follow these numbers in order when operating the camera.

..... Example 1

Set the mode dial to the position shown in the illustration. (In this example, you would set P.)

Date/time setting

It is possible to set the date/time of the built-in clock. Since the date/time is saved with recorded pictures, be sure to set it correctly.

- 1 Set the mode dial to one of shooting positions (P, A/S/M, or S-Prg).
- 2 Press to display Menu (P. 46).

- Be sure to remove the lens cap beforehand since the lens automatically extrudes.
- The mode also allows you to set the date/time as long as the card has one or more images recorded on it.

- The monitor turns on automatically.

Means "Press this button".

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

- In this step and the following steps, the screens show examples of the menus displayed in the P mode.

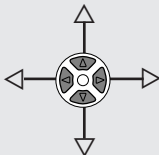
- 4 Press to select SETUP, then press .

- The items in the SETUP menu appear.

- 5 Press to select , then press .

- The screen appears.

, , and used in instructions correspond to the buttons on the arrow pad as shown. (In this example, you would press the right-arrow key on the arrow pad.)



How to use this manual (Cont.)

Example 2

Before using this function, set the mode dial to the position shown.

Chapter 4

Shooting mode setting — Mode dial (Cont.)

Zoom position	Range of the value
Wide (W)	F2.8 – F11.0
Tele (T)	F2.8 – F11.0

Note:

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

Shutter speed setting — Shutter priority shooting



1 In the top menu, select **MODE MENU** → **CAMERA** → **A/S/M** → **S**, then press **OK** to complete the setting. To start shooting, press **OK** again.

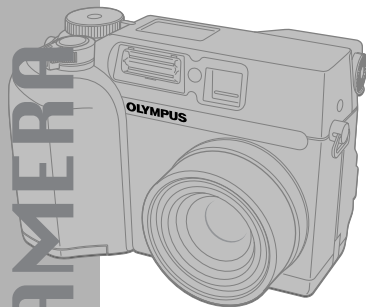
2 To set the shutter speed faster, press **Δ**.



To set the shutter speed slower, press **∇**.

How to use the menu is shown here. Set the functions in the menus in the order of these arrows. Before using the menus, read "Using the Menus", Chapter 3 for details.





Chapter 1

Getting started

Before using the camera, you should follow the steps outlined in this chapter.

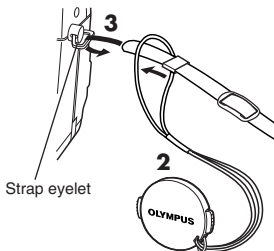
Attaching the strap

- 1** Pull the string loop through the hole in the lens cap.



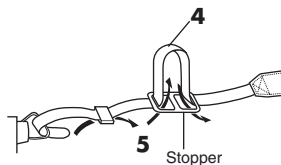
- 2** Put the strap through the string loop.

- 3** Thread the strap through the strap eyelet.



- 4** Loosen the strap in the stopper beforehand to adjust the strap length.

- 5** Thread the strap through the stopper as indicated by the arrows. When the strap length is satisfactory, pull on the strap to make sure it is securely fastened.



- 6** Attach the strap to the other strap eyelet following steps 3 – 5.

Note:

- A camera case will protect the camera when it is being transported. It is highly recommended that you use a case to carry the camera.
- Be careful with the strap when you carry the camera, as it can easily catch on stray objects, causing serious damage.
- Attach the strap correctly as shown so that the camera does not fall off. If the strap is attached incorrectly and the camera falls off, Olympus is not responsible for any damages.

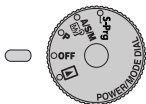
Loading the batteries

This camera uses 4 AA (R6) alkaline batteries, 2 CR-V3 (Olympus LB-01) lithium battery packs or 4 AA (R6) NiMH, NiCd or lithium batteries.

! Important:

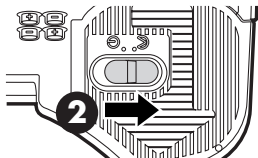
- **CR-V3 lithium battery packs cannot be charged.**
- Do not peel the label on a CR-V3 lithium battery pack. If an insulating sheet covers the terminals, peel it off **ONLY** from the terminals.

1



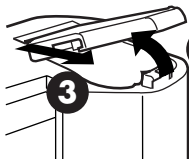
Make sure the camera is turned off (i.e. the mode dial is set to OFF).

2



Slide the battery compartment lock on the battery compartment cover in the direction of ➞.

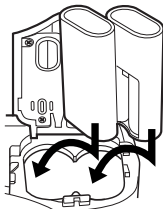
3



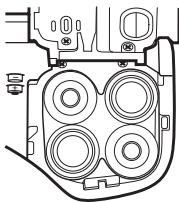
4

Slide the battery compartment cover in the direction of the arrow printed on it, using your fingertip. Using a fingernail could result in injury.

5



When using LB-01 lithium battery packs

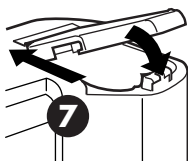


When using AA (R6) batteries

Insert the batteries in the direction shown in the illustration.

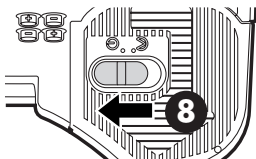
Continued on next page

Loading the batteries (Cont.)



Close the battery compartment cover, then press it down and slide it in the opposite direction of the arrow printed on it.

- When pressing the battery compartment cover shut, be sure to press the center of the cover, as it may be difficult to close properly by pressing the edge.
- Make sure the cover is completely closed.



Slide the battery compartment lock on the battery compartment cover in the direction of ➡.

Battery check

If remaining power is low, the battery check indication on the control panel starts blinking when you turn on the power or while you are using the camera as follows.



Lights.

Remaining power level: high



Blinks.

Remaining power level: low. Replace with a new battery.



Turns off after blinking for approx. 10 sec.

Remaining power level: exhausted. Replace with a new battery.

- After taking a picture or when turning on the power with batteries that are running low, the camera may emit several short beeps and the number of storable pictures will blink. If this happens, the picture just taken will not turn out properly. Replace the batteries and take the picture again.

Note:

- If the terminals inside the battery compartment are dirty, it will noticeably shorten the life of the batteries. Do not touch the inside of the battery compartment.
- If the camera is left for 1 hour with the batteries removed, all the internal settings will revert to the default settings.

Loading the batteries (Cont.)

Note: _____

- The lives of alkaline batteries may vary according to the type of battery, manufacturer, camera shooting conditions, etc.
- When connecting the camera to a PC, it is recommended that you use the optional AC adapter. (P. 186)
- Power is consumed continuously during the conditions described below. This could reduce the number of pictures that can be taken.
 - When the monitor is turned on.
 - Repeated auto-focus by depressing the shutter button halfway.
 - Repeated power zoom adjustments.
 - When the Fulltime AF mode is turned on.
 - When the monitor is in the playback mode for an extended period of time.
 - When communicating with a PC.

Card basics

This camera uses SmartMedia removable memory cards to record pictures. This reference manual uses the term “card” when referring to SmartMedia.

What is SmartMedia?

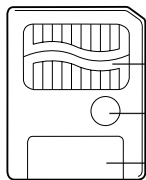
Images recorded and stored on SmartMedia can easily be deleted, overwritten, and/or edited on a PC.

Compatible SmartMedia cards

- 16 MB SmartMedia card (provided with the camera)
- Optional Olympus CAMEDIA-brand cards (4 MB – 128 MB; all cards except 2 MB)
- Commercially-available 3 V (3.3 V) cards (4 MB – 128 MB; all cards except 2 MB)

Note:

- 2 MB cards cannot be used.
- This camera may not recognize a non-Olympus card (such as a 3 V (3.3 V)) or a card that was formatted in another device (such as a PC, etc.). Before use, be sure to format the card in this camera (P. 31, 143).
- 5 V cards are available, but they cannot be used with this camera.



1 Contact area

The area that comes into contact with the signal-reading mechanism of the camera.

2 Write-protect area

Attach the provided write-protect seal when you want to protect your data from accidental erasure or overwriting.

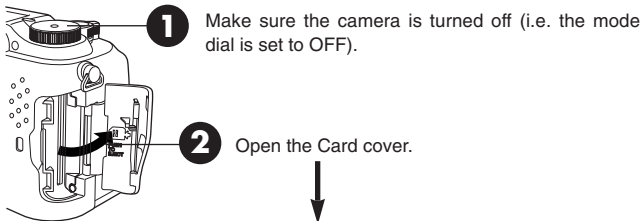
3 Index area

Attach the provided index label to indicate the card's contents.

Note:

- Operating temperature: 0°C to 55°C (32°F to 131°F); Storing temperature: –20°C to 65°C (–4°F to 149°F); Humidity: up to 95%
- Put the card into its anti-electrostatic case for storage or transportation.
- Do not bend, drop, or apply any physical shock to the card.
- Read the provided SmartMedia instruction manual carefully.
- Do not touch the contact area of the card.

Inserting/ejecting the card

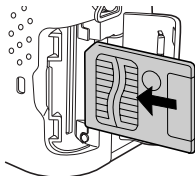


3

Inserting the card

Insert the card fully with the contact area facing towards the monitor side (back of the camera). Insert until you feel the card locked into place.

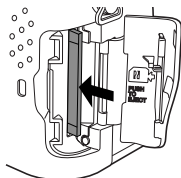
- Note the orientation of the card. If it is inserted incorrectly, it may become jammed.



3

Ejecting the card

Push in the card lightly to unlock it, then pull it out.



4

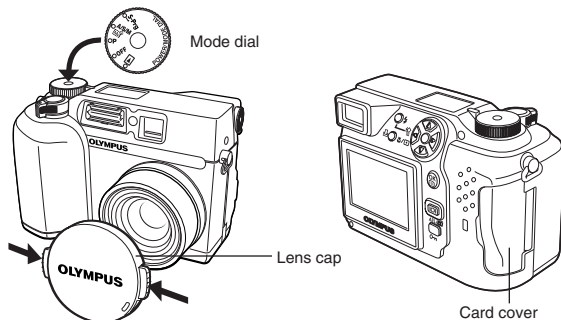
Close the cover tightly.

Note:

- NEVER open the card cover, eject the card, remove the batteries, or disconnect the optional AC adapter while the camera is in use or the camera is communicating with a computer. **Doing so could destroy all data on the card.**
- Destroyed data cannot be restored.

Power on/off

- 1 Press the tabs on the lens cap to remove it.**
- 2 Set the mode dial to S-Prg, P, A/S/M/  or .**
 - The camera turns on.
 - The lens extends when the mode dial is not set to .
- 3 Set the mode dial to OFF.**
 - The camera turns off.



TIPS

• If the camera stops working

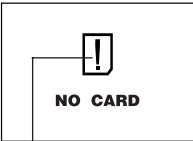
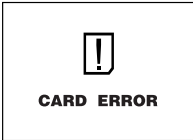
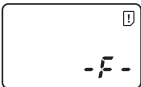
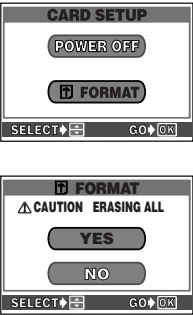
- To save battery power, the camera automatically enters the Sleep mode after about 3 minutes of non-operation. The camera activates again as soon as you touch any control or button such as the zoom lever and mode dial.

!Note:

- When there is insufficient space remaining on the card, the camera beeps and CARD FULL appears on the monitor. If this happens, replace the card with a new/storable card or erase unwanted pictures on the existing card to make space.
- The number of storable pictures may not be reduced every time a picture is taken, or increased when a picture is erased. The amount of data varies depending on the subject of the picture.

Card check

When the power is turned on, the camera checks the card automatically.

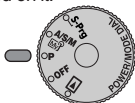
Control panel	Monitor	TIPS
	 Card error mark	There is no card in the camera or the card is not locked into place. → Insert the card until it locks in place.
		There is a problem with the card. → Use a new card.
		The card cannot record, play back or erase pictures. → Format the card. ① Press ∇ to select $\boxed{F}$ FORMAT, then press OK. • The $\boxed{F}$ FORMAT screen appears. ② Press Δ to select FORMAT, then press OK to start formatting. • When formatting is complete, the monitor will display the subject you are shooting.

Date/time setting

It is possible to set the date/time of the built-in clock. Since the date/time is saved with recorded pictures, be sure to set it correctly.

1 Set the mode dial to one of shooting positions (P, A/S/M/ or S-Prg).

- Be sure to remove the lens cap beforehand since the lens automatically extrudes.
- The  mode also allows you to set the date/time as long as the card has one or more images recorded on it.



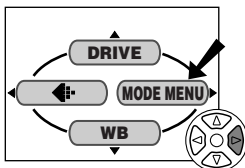
2 Press to display Menu (P. 46).

- The monitor turns on automatically.



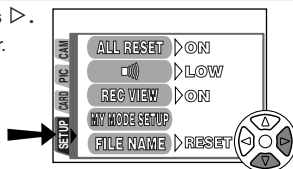
3 Press on the arrow pad to select MODE MENU.

- In this step and the following steps, the screens show examples of the menus displayed in the P mode.



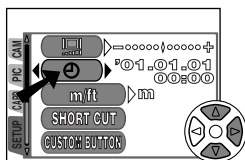
4 Press to select SETUP, then press .

- The items in the SETUP menu appear.



5 Press to select , then press .

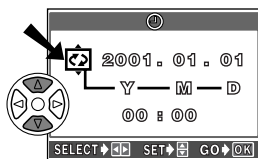
- The  screen appears.



Date/time setting (Cont.)

6 When  is selected in green on the screen, press Δ / ∇ to select the date format.

- Select any one of the following formats:
DMY (Day/Month/Year)
MDY (Month/Day/Year)
YMD (Year/Month/Day)
- This step and the following steps show the procedure used when the date and time settings are set to Y-M-D.



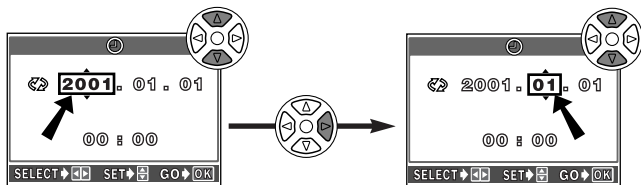
 screen

7 Press $\triangleright$ to move to the year (Y) setting.



8 Press Δ / ∇ to set the year. When the year is set, press $\triangleright$ to move to the month (M) setting.

- Repeat this procedure until the date and time are completely set.
- To move back to the previous setting, press $\triangleleft$.



 Continued on next page

Date/time setting (Cont.)

9 Press .

- The camera returns to the menu screen.
- If  is pressed again, the menu disappears.
- For more accurate setting, press  at the time tone of 00 seconds. The clock starts when you press the button.



10 To turn off the camera, set the mode dial to OFF.

- When the shooting mode is set to OFF, the lens is retracted.

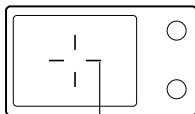
Note:

- The current settings stay the same even when the power is turned off, unless they are readjusted.
- The date/time setting will be canceled if the camera is left with no batteries for approximately 1 hour. If this happens, set the date/time again. If you remove the batteries a short time after loading them in the camera, it may take less than 1 hour for the date/time setting to be canceled.

Adjusting the diopter

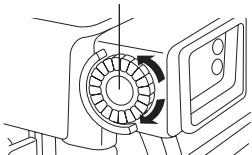
Turn the Diopter adjustment dial until you see the AF target mark clearly.

Viewfinder



AF target mark

Diopter adjustment dial



Holding the camera

Hold the camera firmly with both hands while keeping your elbows at your sides to prevent the camera from moving. Keep your fingers and the strap away from the lens and flash.

Correct

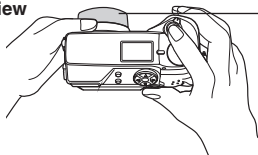
Horizontal grip



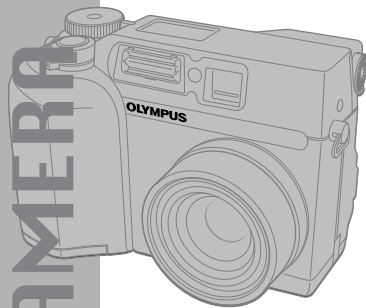
Vertical grip



Top view



Do not hold this part of the lens.



Chapter 2

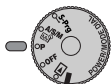
Quick-start guide

Explains the simplest shooting and playback methods. This Quick-start guide has been designed for those who want to become familiar with the camera in a very short time. Before using the camera, be sure to follow the steps explained in Chapter 1.

Taking still pictures



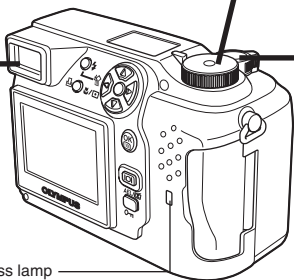
- 1** Remove the lens cap and set the mode dial to P.



- 2** Point the camera towards a subject while viewing through the viewfinder.



Card access lamp



- 3** To focus on the subject, press the shutter button halfway, slowly and gently.

- When the subject is in focus, the green lamp lights up.



Green lamp

- 4** To start shooting, press the shutter button gently all the way (fully).

- The green lamp and card access lamp blink and the camera begins storing pictures on the card.

Note:

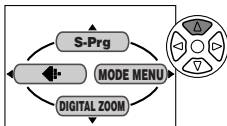
- NEVER open the card cover, eject the card, remove the batteries, or pull the plug of an optional AC adapter when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

2 Press  to display Menu.

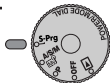
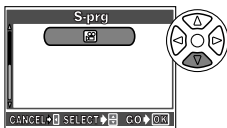
1 Remove the lens cap and set the mode dial to S-Prg.



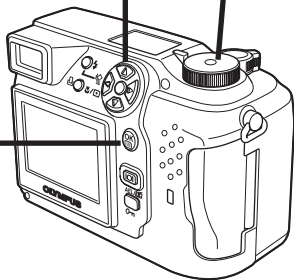
3 Press  to select S-Prg.



4 Press  repeatedly to select  Movie.



5 Press .



Continued on next page

Recording movies (Cont.)

- 6** Point the camera towards the subject and compose the picture while viewing through the monitor.

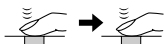
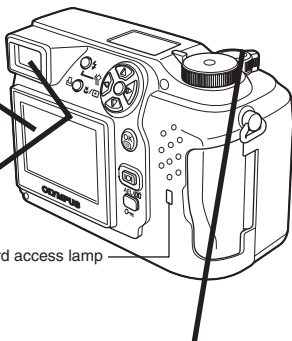


Viewfinder

Orange lamp



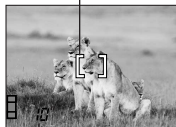
Card access lamp



- 7** Press the shutter button all the way to start recording.

- The orange lamp lights up.
- The subjects are kept in focus all the time during movie recording. → See "FULLTIME AF" on P. 75.

AF target mark



Seconds remaining

- 8** Press the shutter button all the way again to stop recording.

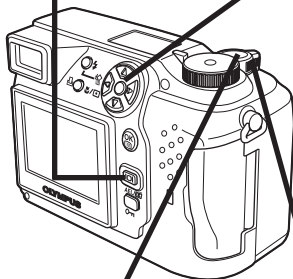
- The card access lamp blinks and the camera starts writing the movie to the card.
- If you use up the remaining seconds displayed, the camera automatically stops shooting and starts writing the movie to the card.

Viewing still pictures — Using Quick View



1 Press the (monitor) button twice quickly.

- The monitor turns on and the recorded picture appears.



3 To return to the shooting mode, press the shutter button halfway.

- The monitor turns off. You can now shoot pictures using the viewfinder.

2 Display the desired pictures using the arrow pad.

- Pictures indicated by  are movie frames. → See “Playing back movies” on P. 42.

Jumps to the picture 10 frames behind.



Displays the next picture.

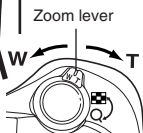
Jumps to the picture 10 frames ahead.

Displays the previous picture.

Turning the zoom lever towards

T: Enlarges the picture (P. 135).

W: Displays multiple pictures at the same time (P. 136).



!Note:

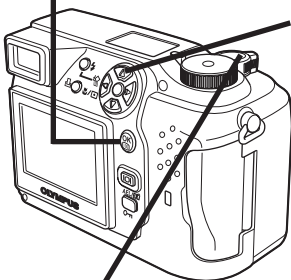
- If the camera is not operated for over 3 minutes when the monitor is on, the monitor turns off automatically. To turn it on again, press any button.

Playing back movies — Using Quick View



- 1** Display the movie frame (picture with ) you want to play back.
→ See steps 1 and 2 on P. 41.

- 2** Press  to display menu.

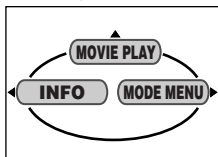


- 4** To return to the shooting mode, press the shutter button halfway.

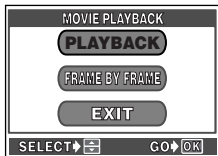
- The monitor turns off. Shoot pictures using the viewfinder.

- 3** Press  on the arrow pad to select **MOVIE PLAY**.

- The card access lamp blinks while movie data is accessed. The camera starts playing back after loading the movie data.



- When playback finishes, the screen returns to the beginning of the movie.
- If you press  again, the MOVIE PLAYBACK screen appears.



Select an item displayed on the screen by pressing  or  on the arrow pad, and then press  to start one of following operations.

PLAYBACK: Plays back the entire movie again.

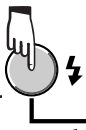
FRAME BY FRAME: Plays back the movie manually by one frame at a time.

EXIT: Leaves the movie playback mode.

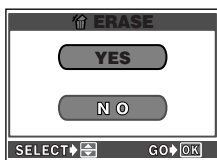


1 Display the picture you want to erase. → See steps 1 and 2 on P. 41.

2 Press the (erase) button.

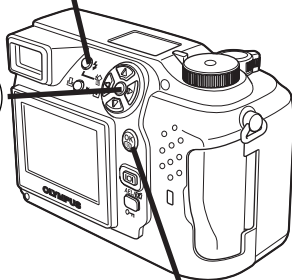


3



When the ERASE screen appears, press to select YES.

- To cancel erasure, press on the arrow pad to select NO, and press or the button.

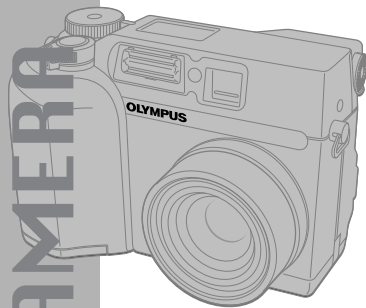


4 Press to erase the picture.



Note:

- Make sure the SmartMedia card is not write-protected. If it is, remove the write-protect seal.
- If you erase a picture, you cannot restore it.



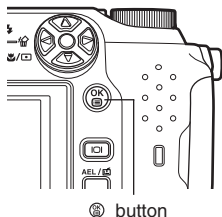
Chapter 3

Using the menus

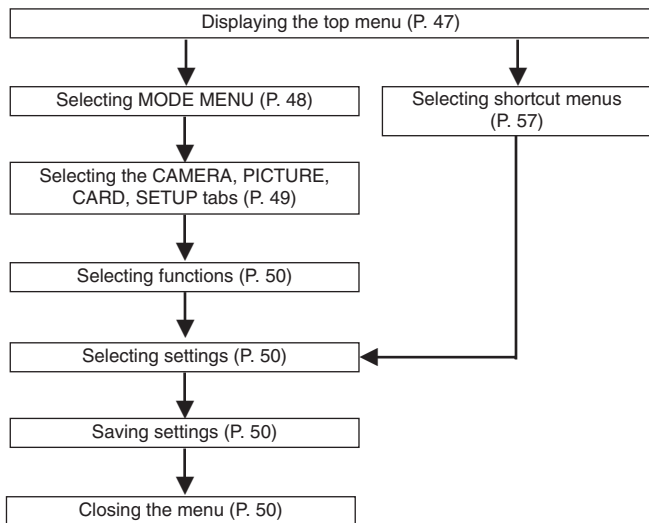
This chapter explains what the camera's menus are and how they work. Some functions of this camera are only available by using the menus.

What Are the Menus?

When you turn on the camera and press the  (OK/Menu) button, what appears on the monitor is generally called “the menu”. The menu can be operated using  and . Since many functions of this camera are accessed using the menu, understanding details about the menu will help you take better photographs. See how menu operations flow together on the chart below.



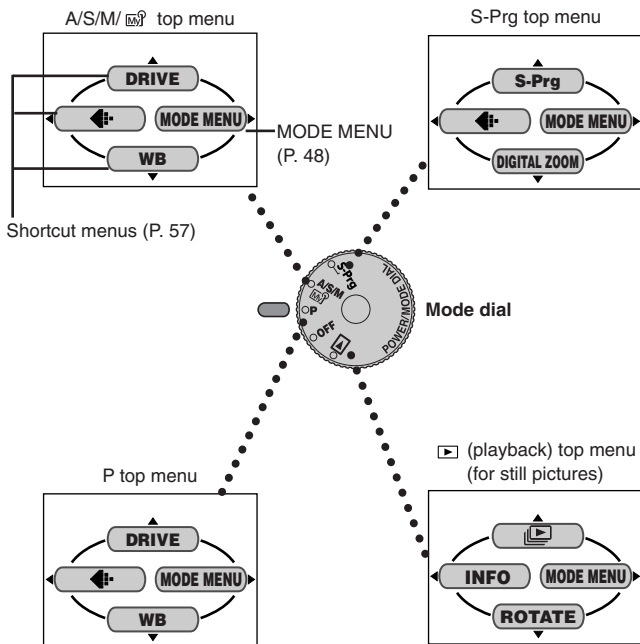
Menu Basics



Top Menu

When displaying menus, the first screen that appears on the monitor is called the top menu. The contents of this menu change depending on the position of the mode dial (see the diagram below).

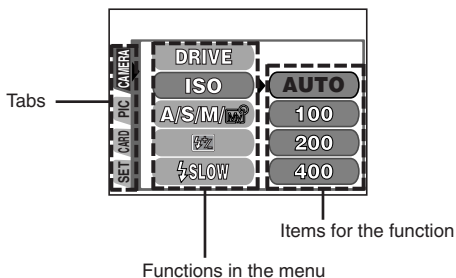
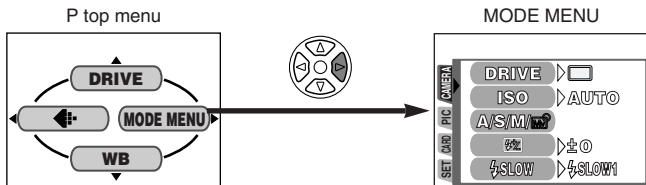
On the top menu, two types of menus are available: **MODE MENU** (P. 48) and the other menus (**shortcut menus** → P. 57).



On the top menu for movies,  is replaced with MOVIE PLAY and ROTATE disappears.

MODE MENU

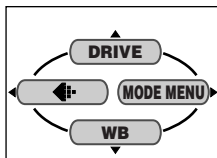
To enter MODE MENU, press $\triangleright$. Functions available in the MODE MENU depend on the position of the mode dial. MODE MENU functions are divided into 4 tabs (CAMERA, PICTURE, CARD, SETUP). See “Using Tabs” on P. 49.



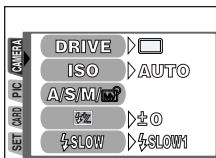
Using Tabs

When MODE MENU is selected, a screen appears with 4 tabs on the left. Use Δ ∇ to select a tab.

P top menu



CAMERA tab



CAM: CAMERA

Functions for shooting: selecting drive modes, using digital zoom, etc.

PIC: PICTURE

Functions for adjusting images: selecting record modes, adjusting white balance, etc.

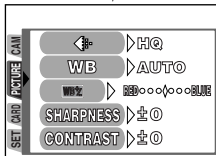
CARD: CARD

SmartMedia card functions such as formatting and all-frame erasing.

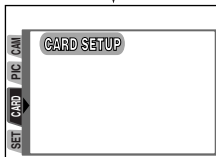
SET: SETUP

Functions for changing camera settings: date and time, shortcut settings, etc.

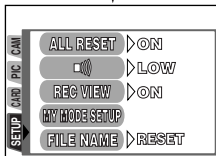
PICTURE tab



CARD tab

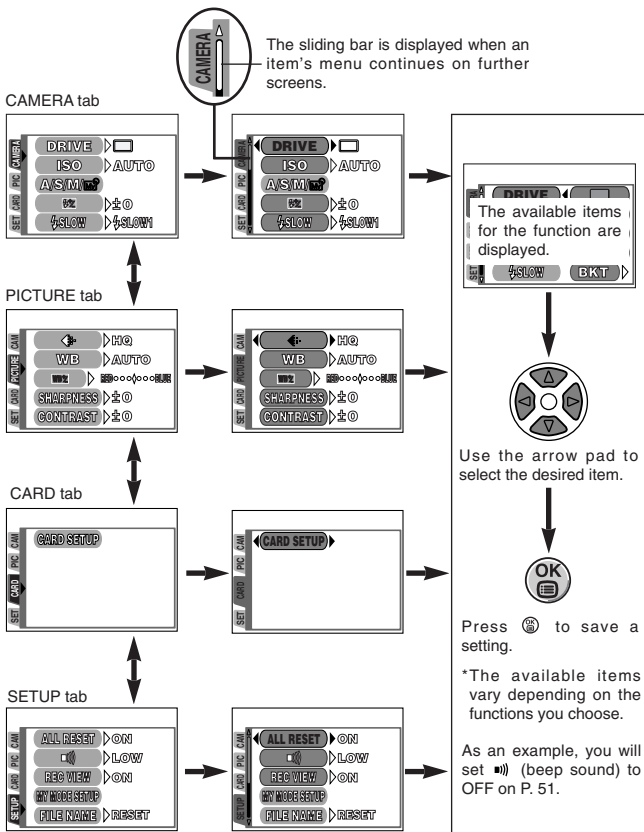


SETUP tab



Selecting, Setting and Saving Functions

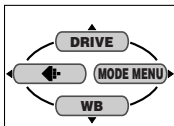
After choosing a tab, you can select and set its functions. Pressing $\triangleright$ on a tab displays the functions contained in it. Select the desired function using $\triangle \nabla$ and press $\triangleright$.



Example of How to Set a Function

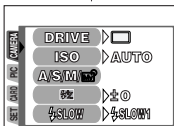
Follow the steps below to set one function in MODE MENU. In this example, you will set **■|||** (beep sound) to OFF when the mode dial is set to P.

- 1** Set the mode dial to P and press to display the top menu.



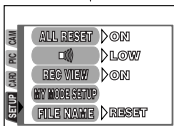
- 2** Press to enter MODE MENU.

A screen is displayed with tabs on the left.



- 3** Keep pressing until the SETUP tab is selected.

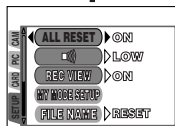
The mark moves to the selected tab and the selection becomes highlighted.



- 4** Press to enter SETUP.

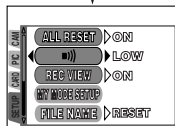


- 5** Press to select **■|||**.



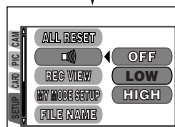
- 6** Press to display OFF/LOW/HIGH.

The factory default setting is LOW.



- 7** Press to select OFF.

- 8** Press to save the setting. To go back to shooting, press again.



Note:

- Some menu functions cannot be set separately for each mode. For details, see “Setting limitations and Default settings” that you can find on each mode menu function page.

MODE MENU Functions (Shooting)

With the menu functions below, the setting range allowed for them and the availability of them vary depending on the shooting (or playback) mode concerned. For details, see “Default Settings for Menu Functions” (P. 59) or “Setting limitations and Default settings” that you can find on each mode menu function page.

CAMERA

DRIVE

 P. 98, 99, 152

Changes the drive modes, or sets autobracketing or self-timer shooting.

ISO

 P. 118

Selects ISO sensitivity (based on normal camera film) from AUTO/100/200/400.

A/S/M/My

 P. 67–70

Selects the exposure mode from A (Aperture priority auto), S (Shutter priority auto), M (Manual mode) or My (My mode).

Flash

 P. 95

Adjusts the flash intensity for different shooting conditions.

⚡ SLOW

 P. 91

Adjusts the flash for slow shutter speeds.

NOISE REDUCTION

 P. 128

Reduces the noise on images during long exposures.

DIGITAL ZOOM

 P. 86

The maximum optical zoom can be extended even more by the digital zoom, making possible up to 7.5x zoom.

FULLTIME AF

 P. 75

Keeps the image in focus at all times without having to press the shutter button halfway.

MODE MENU Functions (Shooting) (Cont.)

CAMERA

AF MODE

 P. 74

Selects the auto focus mode (iESP or SPOT).

PANORAMA

 P. 111

Allows panorama pictures to be taken with Olympus CAMEDIA-brand SmartMedia cards. To connect pictures into a single panoramic image, the CAMEDIA Master software that comes with this camera is required.

FUNCTION

 P. 109

Lets you shoot pictures in black & white or sepia tone.

PICTURE



 P. 114

Sets the record mode.

WB

 P. 122

Sets the appropriate white balance according to the light source.



 P. 125

Lets you make minute changes to the white balance manually.

SHARPNESS

 P. 126

Adjusts the sharpness of images.

CONTRAST

 P. 127

Adjusts the contrast of images.

 Continued on next page

MODE MENU Functions (Shooting) (Cont.)

CARD

CARD SETUP P. 143

Formats SmartMedia cards.

ALL RESET P. 153

Selects whether to keep the current camera settings when you turn off the power.

P. 154

Sets the beep sound (used for warnings, etc.) to OFF/LOW/HIGH.

REC VIEW P. 154

Selects whether to display images on the monitor while saving them to a card.

MY MODE SETUP P. 155

Allows you to make your original set of function settings and save it as the  mode. Once you save your settings, you can call the entire setting just by selecting the  mode at any time you turn on the camera. The saved settings remain on the memory after you turn off the camera.

FILE NAME P. 158

Chooses how to name files/folders of images to be saved.

SETUP

P. 83

Adjusts the brightness of the monitor.

P. 32

Sets the date and time.

MODE MENU Functions (Shooting) (Cont.)

SETUP

m/ft

 **P. 159**

Sets the measurement units (m/ft) used during manual focus.

SHORT CUT

 **P. 149**

Lets you assign frequently-used functions as shortcut menus on the top menu.

CUSTOM BUTTON

 **P. 146**

Lets you assign a frequently-used function to the custom button on the camera.

MODE MENU Functions (Playback)

CARD

CARD SETUP P. 143

Formats SmartMedia cards (FORMAT), or erases all images in the card (ALL ERASE).

SETUP

ALL RESET P. 153

Selects whether to keep the current camera settings when you turn off the power.

P. 154

Sets the beep sound (used for warnings, etc.) to OFF/LOW/HIGH.

P. 83

Adjusts the brightness of the monitor.

P. 32

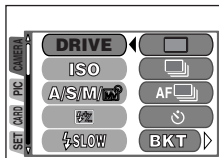
Sets the date and time.

P. 137

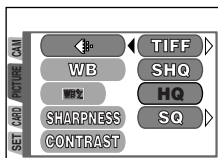
Selects the number of frames in the index display.

Shortcut menus are the menus other than MODE MENU on the top menu (the top menu is the first menu that appears when the menu button is pressed). Although most shortcut menus are also contained in MODE MENU, putting them on the top menu allows instant access to them. The shortcut menus can be replaced only when the mode dial is set to P or A/S/M/ . See "Shortcut" (P. 149) for more details.

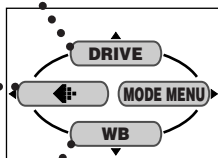
Drive mode setting screen



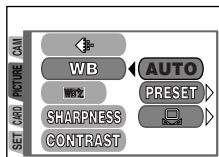
Record mode setting screen



P top menu



White balance setting screen



Mode Dial & Shortcut Menus

The diagram below describes the shortcut menus that are available with each mode dial position. The shortcut menus are the menus other than MODE MENU on the top menu.

These shortcut menus can be replaced with other functions by using "Shortcut" (P. 149). The menus themselves are explained in "MODE MENU functions" (P. 52–56).

S-Prg

Selects the mode that best suits the scene from five modes (Portrait, Sports, Landscape, Night-scene and Movie modes).

Record mode

Sets the record mode.

Digital zoom

The maximum optical zoom can be extended even more by the digital zoom.

Slide-show

Runs through all saved pictures one after another.

Information display

Changes the amount of shooting information displayed on the monitor.

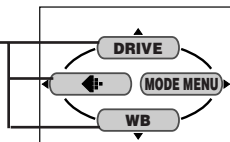
Movie playback

Plays back movies.

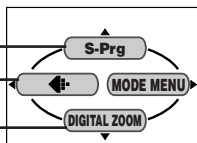
Information display

Changes the amount of shooting information displayed on the monitor.

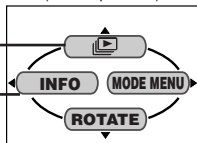
P top menu
(same in A/S/M/ )



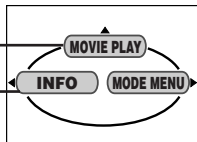
S-Prg top menu



 (playback) top menu
(for still pictures)



 (playback) top menu
(for movies)



Default Settings for Menu Functions

When the mode dial is set to P, A/S/M/ or :

Mode dial	S-Prg	P	A/S/M/	
Menu functions				
DRIVE	See P. 61	Single-frame shooting (When BKT is selected: Exposure differential: ± 1.0 Number of images: x3)		—
ISO		AUTO	100*	—
A/S/M/ 		—	A	—
		± 0		—
SLOW		SLOW1		—
NOISE REDUCTION		OFF		—
DIGITAL ZOOM		OFF		—
FULLTIME AF		OFF		—
AF MODE		iESP		—
FUNCTION		OFF		—
		HQ: 2048x1536 (For other record modes, settings are as follows.) TIFF: 2048x1536 SHQ: 2048x1536 SQ: 640x480/NORMAL		—
WB		AUTO (when PRESET is selected)		—
		± 0		—
SHARPNESS		± 0		—
CONTRAST		± 0		—
ALL RESET		ON		

—: Not available

* AUTO for the mode

Continued on next page

Default Settings for Menu Functions (Cont.)

Mode dial Menu functions	S-Prg	P	A/S/M/ 	
	See P. 62	LOW		
REC VIEW		ON	—	
MY MODE SETUP		—		
FILE NAME		RESET	—	
		± 0		
		YMD/2001/1/1		
m/ft		m	—	
SHORT CUT		A: DRIVE B:  C: WB	—	
CUSTOM BUTTON		AE LOCK	PROTECT	
		—	9	
INFO		—	OFF	

—: Not available

Default Settings for Menu Functions (Cont.)

When the mode dial is set to S-Prg:

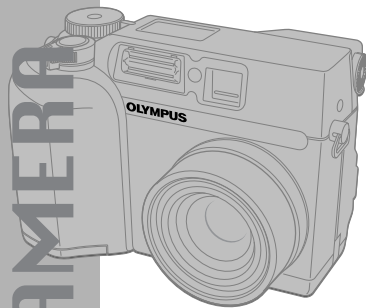
Mode dial (Mode menu)	S-Prg Portrait	S-Prg Sports	S-Prg Landscape	S-Prg Night scene	S-Prg Movie
Menu functions					
DRIVE	Single-frame shooting				—
ISO	—				AUTO
	± 0				—
 SLOW	—			 SLOW1	—
NOISE REDUCTION	—			ON	—
DIGITAL ZOOM	OFF				
FULLTIME AF	OFF	ON	OFF		ON
AF MODE	iESP				
FUNCTION	OFF				
	HQ				
WB	AUTO			Night- scene specific setting	AUTO
	± 0				
SHARPNESS	± 0				
CONTRAST	± 0				
ALL RESET	ON				

—: Not available

Default Settings for Menu Functions (Cont.)

Mode dial (Mode menu)	S-Prg Portrait	S-Prg Sports	S-Prg Landscape	S-Prg Night scene	S-Prg Movie
Menu functions					
	LOW				
REC VIEW	ON				
MY MODE SETUP	—				
FILE NAME	RESET				
	± 0				
	YMD/2001/1/1				
m/ft	m				
SHORTCUT	—				
CUSTOM BUTTON	—				
	—				
INFO	—				

—: Not available



Chapter 4

Shooting basics

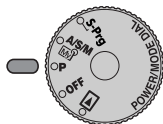
This chapter explains the basics of taking good pictures with your camera. You should read it through in order to make the most of the information provided.

Before using the camera, also be sure to read “How to use this manual” and “Getting started”, Chapter 1.

Shooting mode setting — Mode dial

Set the mode dial to **S-Prg**, **P** or **A/S/M** .

- The camera turns on. Since the lens automatically extends when the camera is turned on, take off the lens cap first.
- When the camera mode is set to **S-Prg** or **A/S/M** , the monitor turns on automatically.



S-Prg Scene program shooting

Five program shooting modes (, , , , and ) are available, where functions such as exposure and flash are preset or preadjusted so that they best suit five typical shooting conditions. You can shoot clear pictures by simply selecting the desired mode.

Portrait mode

Suitable to shoot portraits. It effectively makes a person stand out by focusing only on a person and keeping a background out of focus.

Sports mode

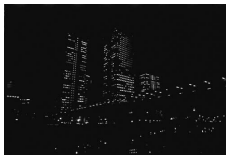
Suitable to shoot moving subjects such as athletes' quick movements and moving cars. As it captures subjects in motion as if they stand still, it assures you to seize a passing shooting opportunity such as momentary change in facial expression.

Landscape mode

Suitable to shoot persons against a background. This mode allows you to keep both the persons at close range and the distant landscape in focus, providing you with the appropriate camera condition for taking souvenir pictures at a sightseeing spot.

Night-scene mode

Suitable to shoot night-scenes. This mode automatically sets the camera settings, so that they best fit the night-scene shooting and allows you to get clear pictures of night scenes that cannot be obtained by normal shooting, where shooting a night scene full of shiny street lights result in a picture that has only lucent dots scattered on a black background. We recommend the use of a tripod when you shoot a night scene.



Shot with P (program) mode



Shot with  Night-scene mode

Shooting mode setting — Mode dial (Cont.)



Movie mode

Allows you to record movies.



Program shooting

The camera sets aperture and shutter speed each time you shoot a still picture.



Aperture priority/Shutter priority/Manual/My (image) mode shooting

Allows you to set aperture and/or shutter speed manually. When the mode dial is set to A/S/M/ , the following items can be set with the menus:

A (Aperture priority shooting)

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

Aperture setting → P. 67



Aperture (F value) is decreased.



Aperture (F value) is increased.

Shooting mode setting — Mode dial (Cont.)

S (Shutter priority shooting)

Allows you to set the shutter speed manually. The camera sets the aperture automatically. Set the shutter speed according to the subject and the type of picture you want.

Shutter speed setting → P. 68



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



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

M (Manual shooting)

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

Aperture & shutter speed setting → P. 70

My (image) mode shooting

Allows you to take still pictures. The MY MODE SETUP that can be accessed in the mode menu's SETUP allows you to make your original set of function settings such as aperture value and zoom position and save it as the  mode for later use. Once you save your settings, you can call the entire setting just by selecting the  mode at any time you turn on the camera. You can also assign the P (program shooting) mode or A/S/M mode to the  mode. → See "MY MODE SETUP" on P. 155.

Note:

- With some mode menu functions, change of the setting in one shooting mode is not automatically applied to the other shooting modes. With these mode menu functions, set the function manually for each shooting mode by consulting information described in "Setting limitations and Default settings" that you can find on each mode menu function page.

Shooting mode setting — Mode dial (Cont.)

Scene mode selection — Scene program shooting



In the top menu, select S-Prg → one of five S-Prg modes (Portrait, Sports, Landscape, Night-scene, and Movie modes).

Aperture setting — Aperture priority shooting



1 In the top menu, select **MODE MENU** → **CAMERA** → **A/S/M** → **A**, then press to complete the setting. To start shooting, press again.

2

To increase the aperture value (F value), press Δ .



To decrease the aperture value (F value), press ∇ .

■ If the aperture value is displayed in red

The aperture you have set is unsuitable for the conditions.

▼ appears. → Press ∇ to decrease the aperture value.

▲ appears. → Press Δ to increase the aperture value.

Green:

The aperture setting will provide optimum exposure.



Red:

The aperture setting is unsuitable for optimum exposure.



Continued on next page

Shooting mode setting — Mode dial (Cont.)

Zoom position	Range of the value
Wide (W)	F2.8 – F11.0
Tele (T)	F2.8 – F11.0

!Note:

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

Shutter speed setting — Shutter priority shooting



- In the top menu, select **MODE MENU** → **CAMERA** → **A/S/M** → **S**, then press to complete the setting. To start shooting, press again.

- To set the shutter speed faster, press .



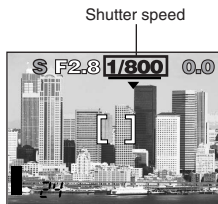
To set the shutter speed slower, press .

- If the shutter speed is shown in red

The shutter speed you have set is unsuitable for the conditions.

▼ appears. → Press to set the shutter speed slower.

▲ appears. → Press to set the shutter speed faster.



Shutter speed range:
4 to 1/800 sec.

Shooting mode setting — Mode dial (Cont.)

Using My (Image) Mode

My (Image) mode allows you to activate the shooting mode that you selected with the MY MODE SETUP menus. You can also save the selected shooting mode or the function settings you are currently using so that you can call the saved settings just by selecting the  mode. → MY MODE SETUP (P. 155)



- 1 In the top menu, select **MODE MENU** → **CAMERA** → **A/S/M/**  → .

Note:

- Although the settings you are using in the  mode can be saved, the saved zoom position may be different from the one being used.

 Continued on next page

Shooting mode setting — Mode dial (Cont.)

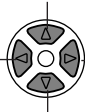
Aperture & Shutter speed setting — Manual shooting



1 In the top menu, select **MODE MENU** → **CAMERA** → **A/S/M** → **M**, then press to complete the setting. To start shooting, press again.

2 To set the shutter speed faster, press Δ .

To increase the aperture value (F value), press $\triangleleft$.



To decrease the aperture value (F value), press $\triangleright$.

To set the shutter speed slower, press ∇ .

F value range: 2.8 to 11.0 (W), 2.8 to 11.0 (T)
Shutter speed range: 16 to 1/800 sec.

■ Exposure differential

- The difference (ranging from -3.0 to $+3.0$) between the exposure determined by the currently selected combination of the aperture and shutter speed and that considered optimal by the camera appears in the upper right corner of the screen.
- When the exposure differential is set to less than -3.0 or more than $+3.0$, the exposure differential appears in red.
- When you press the **AEL/** button, the screen appears with the bar indicating current exposure setting as shown in the right-side example below. Pressing the shutter button halfway shows how much the current exposure is different from the correct exposure (left-side example below).

Aperture (F value) Shutter speed



Exposure differential



When the bar is displayed

!Note:

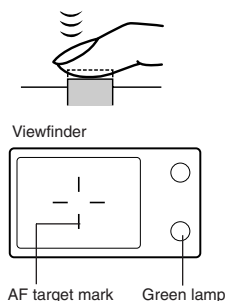
- To avoid camera movement, we recommend use of a tripod for any effect which uses a lower shutter speed.

How to use the shutter button

- 1** Point the camera towards the subject. Place the AF target mark on the subject while viewing through the viewfinder.

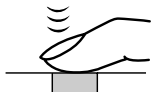
Press the shutter button gently (halfway).

- When the focus and brightness (exposure) are locked, the green lamp next to the viewfinder lights.



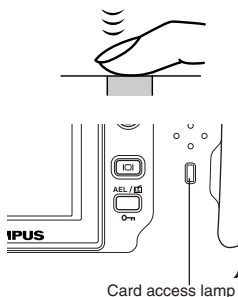
- 2** Press the shutter button all the way.

- Shooting starts and the green lamp blinks.
- S-Prg, P or A/S/M/  mode: The camera starts storing your pictures on the card. While pictures are being stored, the card access lamp blinks.
- Movie mode: The camera starts recording a movie.



- 3** To stop movie recording, press the shutter button all the way again (only for the  Movie mode).

- The card access lamp blinks and the camera starts storing the movie on the card. You cannot record another movie until the card access lamp stops blinking.

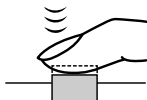


Focusing

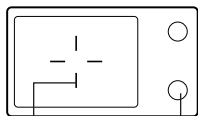
Auto focus

When you place the AF target mark on a subject and press the shutter button halfway, the green lamp lights up. This means that focusing is being performed automatically.

If the green lamp blinks, focusing is not correct. If this happens, use the AF mode (P. 74), Manual focus (P. 77) or Focus lock (P. 73).



Viewfinder



AF target mark

Green lamp

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

Under certain types of conditions auto focus may not work properly. If you run into problems, try the procedure below or switch to Manual focus (P. 77).

Conditions **1**, **2** and **5**

Auto focus may not work properly. The green lamp may blink.

Conditions **3** and **4**

Auto focus may not work properly even if the green lamp lights when you press the Shutter button down halfway.

1 Subjects with low contrast



2 Subjects in excessively bright light in the center of the frame



Focusing (Cont.)

3 Subjects at different distances

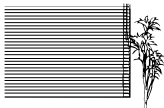


4 Fast-moving subjects



Position the AF target mark in the viewfinder on an object that is the same distance from the camera as the subject, then half-press the shutter button to lock focus, while keeping your finger half-pressed on the shutter button, frame the picture you want to shoot, and then fully press the shutter button (P. 73).

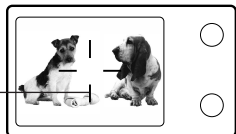
5 Subjects with no vertical lines



Hold the camera vertically, half-press the shutter button and hold it down to lock the focus. Re-position the camera horizontally, compose the picture and then fully press the shutter button to take the picture (P. 73).

Focus lock — Focusing on subjects that are not in the center of the frame

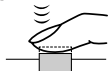
If the subject of your composition is not within the AF target mark and focusing is not possible (as illustrated to the right), try the following:



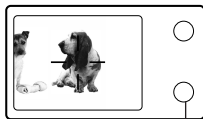
AF target mark



- 1 Focus on something within the AF target mark. Press the Shutter button halfway to lock the focus.**



Brightness (exposure) is also locked and the green lamp lights.

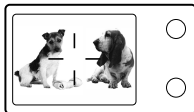


Green lamp

Continued on next page

Focusing (Cont.)

- 2** Compose your picture while keeping the Shutter button pressed halfway.



- 3** Press the Shutter button all the way.



TIPS

- **The green lamp blinks.**
→ Focus and exposure are not locked. Release your finger from the shutter button and the green lamp turns off. Position your subject again. Repeat step 1 until the green lamp lights up without blinking.
- **The frame in which you focus on a subject is different from the frame in which you meter the light.**
→ Use AE lock (P. 104).

AF MODE — Changing the focus range

Allows you to select the focus range of your subject.

iESP : Focus selection is based on the entire picture on the screen. Even when the subject is not in the center of the screen, focusing is possible.

SPOT : Focus selection is based on the picture within the AF target mark.

iESP



SPOT



Focusing (Cont.)



In the top menu, select **MODE MENU** → **CAMERA** → **AF MODE** → **iESP** or **SPOT**.

Setting limitations and Default settings (AF mode)

The setting for the AF mode differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation (-: Not available)	Factory default setting
S-Prg	—	iESP
P	iESP or SPOT is available.	
A/S/M/ 		

- No selection other than the default setting iESP is available for the S-Prg mode. For P and A/S/M/ modes, the setting can be changed between iESP and SPOT. However, the change in one shooting mode is forcibly applied to the other shooting modes.

FULLTIME AF — Continuous focusing for sports, action and fast moving subjects

FULLTIME AF keeps the image on the monitor in focus at all times, without having to press the shutter button halfway. This function reduces focusing time. When OFF is selected, images cannot be focused unless the shutter button is pressed halfway.



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

2 Turn on the monitor (P. 81).

- If the monitor is not on, Fulltime AF does not function.

Continued on next page

Focusing (Cont.)

Setting limitations and Default settings (Fulltime AF)

The setting for the Fulltime AF mode differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (–: Not available)	Factory default setting
S-Prg		–	OFF
			ON
			OFF
			ON
			ON
P		ON or OFF is available.	OFF
A/S/M			

- No selection other than the default setting OFF or ON is available for the S-Prg mode. For P and A/S/M/ modes, the setting can be changed between ON and OFF. However, the change in one shooting mode is forcibly applied to other shooting modes except for mode.
- For mode, the setting can be changed separately from other shooting modes.

Note:

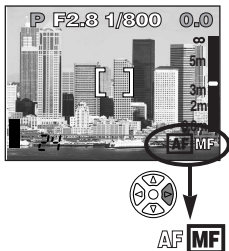
- Battery life is shorter when Fulltime AF is set.

Manual focus

If Auto focus is unable to lock, use manual focus.



- 1 Hold down  for more than 1 second. When the focus distance selection screen appears on the monitor, press  to select MF.



- 2 Press   to select the focus distance.

- During operation, the picture is enlarged. The lengths shown are for reference only. When the length indicator is moved to less than 0.8 m (2.6 ft), the bar display automatically switches to the 20 cm (8")–80 cm (31") bar display.



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

- MF appears in red.



- 4 Shoot.

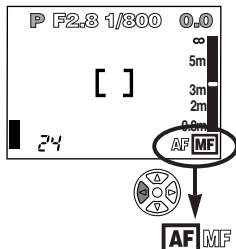
- Focus is locked at the distance you have set.

Focusing (Cont.)

- 5** To cancel the MF setting, hold down  again for more than 1 second to display the focus distance selection screen.

- 6** To return to the AF mode, press  to select AF, then press .

- The MF setting is canceled.



TIPS

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

→ The MF can be locked at the same length as when you perform focus lock.

- 1** Focus on anything within the AF target mark. Press the shutter button halfway to lock focus.
- 2** Without letting go off the shutter button, hold down  for more than 1 second. The focus distance screen appears. On the screen, MF is selected and the focus distance is the same as when you performed focus lock.



- **Although MF is selected and the length indicator reaches the top of the bar, focusing is not possible at ∞.**
→ Adjust by moving   slightly while watching the monitor.
- **Although the focus distance is saved, the picture goes out of focus.**
→ If the zoom lever is pressed after manual focus setting, the saved focus distance may be changed. Try setting again.

Taking still pictures

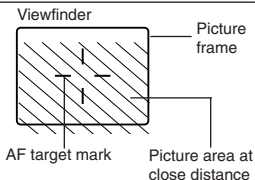
Taking still pictures while using the viewfinder

The camera actually records a wider area than the picture you composed while viewing through the viewfinder.



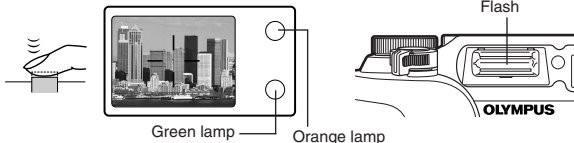
- 1 Point the camera towards a subject while viewing through the viewfinder. Place the subject on the AF target mark.**

- The picture area moves lower in the viewfinder as you get closer to the subject. If this happens, use the monitor (P. 81).



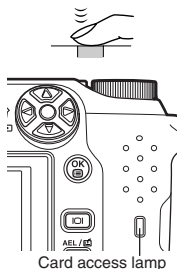
- 2 Press the shutter button halfway.**

- When focus and exposure (brightness) are locked, the green lamp lights.
- If the orange lamp lights, the flash fires automatically.
→ See "Flash shooting" (P. 92).



- 3 Press the shutter button all the way.**

- The green lamp blinks and the camera begins storing pictures on the card. When the green lamp stops blinking, you can take another shot.
- The card access lamp blinks while pictures are being stored on the card.
- Number of still pictures that can be stored on a 16 MB card →
HQ record mode (2048x1536):
Approx. 21
SQ record mode (640x480 NORMAL):
Approx. 165



Continued on next page

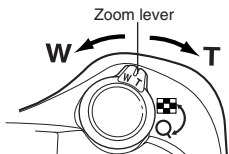
Taking still pictures (Cont.)



TIPS

- **How to zoom in on a subject or shoot a wider picture (zoom-out)**

→ To zoom in on a subject, press the zoom lever towards T. To shoot a wider picture, press the zoom lever towards W (P. 86).



- **How to shoot using the monitor**

→ Press the  (monitor) button (P. 81).

- **If you cannot release the shutter button**

→ While the orange lamp blinks, the flash is charging. During charging, the shutter button cannot be released. When the orange lamp goes off, press the shutter button again.

→ If CARD FULL appears, there is no space on the SmartMedia card. Delete pictures (P. 141, 142), replace with a new card (P. 29) or transfer pictures to a computer (P. 172–184).

- **The subject of your composition is outside the AF target mark.**

→ Place the subject within the AF target mark and use the focus lock (P. 73).

- **The green lamp blinks.**

→ If you want to shoot a subject as close as 20 cm (8 inches), put the camera into the macro mode (P. 107).

→ Depending on the subject, focus and exposure (brightness) may not be locked (P. 72).

- **How to reduce the focusing time**

→ Set FULLTIME AF (P. 75), use the monitor to shoot (P. 81).

- **How to lock the exposure only**

→ Try AE lock (P. 104). This function is available only when using the monitor.

- **How to check the picture just taken**

→ Set REC VIEW to ON. The picture is displayed on the monitor (P. 154).

Taking still pictures (Cont.)

Note:

- Press the shutter button gently using the ball of your finger. If it is pressed hard, the camera may move and pictures may come out blurred.
- Recorded pictures will be saved on the SmartMedia card regardless of whether the camera is turned off or the batteries are replaced or removed.
- NEVER open the card cover, eject the card, remove the batteries, or pull the plug when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

Taking still pictures while using the monitor

With the monitor, you can shoot while checking the picture area that the camera actually records. It is also possible to check information such as memory gauge, aperture, shutter speed, etc.

Comparison of the viewfinder & monitor

Viewfinder

Advantage:

Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.

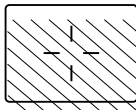
Disadvantage:

When close to a subject, the image in the viewfinder is a little different from the picture that the camera actually records.

Tips:

Use the viewfinder for general snapshots (landscape pictures, casual shots, etc.) or when taking several pictures in a row.

Viewfinder



Striped area: Picture that the camera actually records.

Monitor

Advantage:

You can check the picture area that the camera actually records.

Disadvantage:

Camera movement can occur easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.

Tips:

Use the monitor when you need to know the exact area the camera records, or to shoot a subject 0.2 m – 0.8 m (8 inches – 2.6 ft) or closer (macro shooting).

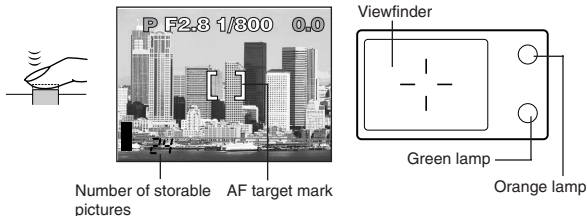
- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded becomes lower than the one in the viewfinder (see left).

Continued on next page

Taking still pictures (Cont.)



- 1 Press the  (monitor) button to turn on the monitor.**
 - In the S-Prg and A/S/M  modes, the monitor turns on automatically.
- 2 Point the camera towards a subject while viewing through the monitor. Place the subject on the AF target mark.**
- 3 Press the shutter button halfway.**
 - When focus and exposure (brightness) are locked, the green lamp lights.
 - If the orange lamp lights, the flash fires automatically.
 - See “Flash shooting” (P. 92).

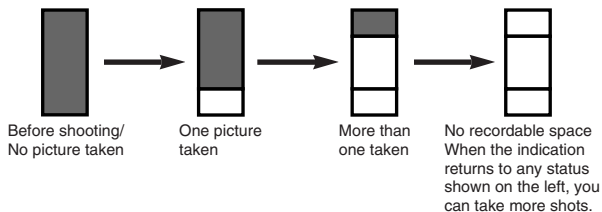


- 4 Press the shutter button all the way.**
 - The bottom of the memory gauge lights, the card access lamp blinks, and the camera begins storing pictures on the card.



Taking still pictures (Cont.)

If you take pictures continuously, the indication changes as shown below. The memory gauge lets you know if another shot is possible.



TIPS

- **The monitor is not turned on.**

→ If the camera is not used for over 3 minutes, the monitor turns off. If you operate the shutter button or zoom lever, the monitor turns on again.

- **The monitor is difficult to see.**

→ If you view through the monitor in bright places such as direct sunlight, vertical lines may appear on the monitor. This is not a malfunction. In this case, use the viewfinder.

- **How to brighten/darken the monitor**

→ ① In the top menu, select MODE MENU → SETUP →

② To brighten the monitor, press Δ .
To make the monitor darker, press ∇ . To complete the setting, press .



- **Blurring of pictures due to camera movement is less noticeable when using the viewfinder rather than the monitor.**

- **Also read the “TIPS” on “Taking still pictures while using the viewfinder” (P. 79).**

Note:

- The monitor consumes more battery power than the viewfinder.

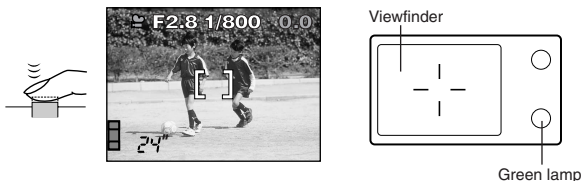
Recording movies

S-Prg

- 1 In the top menu, select S-Prg →  Movie.
- 2 Point the camera towards a subject while viewing through the monitor. Place the subject on the AF target mark.

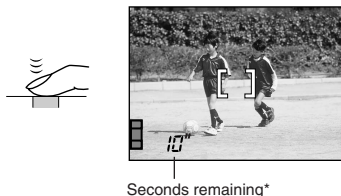
- 3 Press the shutter button halfway.

- When focus and exposure (brightness) are locked, the green lamp lights.



- 4 Press the shutter button all the way to start recording.

- During movie recording, the focus is automatically adjusted so that the subject is in focus at every moment.

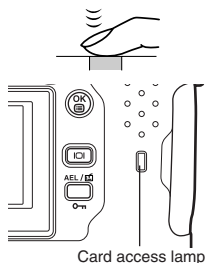


* The displayed seconds remaining shows the time you can record continuously by holding down the shutter button.

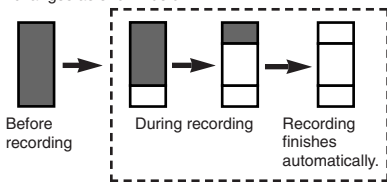
Recording movies (Cont.)

5 Press the shutter button all the way to stop recording.

- The card access lamp blinks and the camera begins storing the movie on the card. You cannot record another movie while the card access lamp is blinking.
- When the card access lamp stops blinking, the camera has finished writing the movie to the card. If there is any space left on the card, the number of seconds remaining is displayed. You can start recording another movie.
- If you use all the displayed seconds remaining, recording finishes automatically without your pressing the shutter button, and the camera starts writing the movie to the card.



If you take pictures continuously, the indication changes as shown below.



After recording, these indications may still be on the screen. Recording is not possible until they are gone.



TIPS

• Shooting is not possible.

- Shooting is not possible while the camera is saving pictures to the card. If the memory gauge goes off, you can take another shot.
- If CARD FULL appears, there is no space left on the SmartMedia card. Delete pictures (P. 141, 142), replace with a new card (P. 29) or transfer pictures to a computer (P. 172–184).

Zoom — Telephoto/Wide-angle shooting

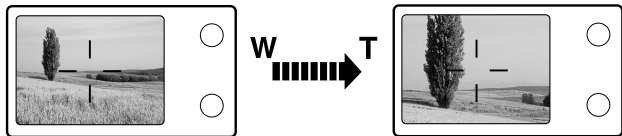
Telephoto/Wide-angle shooting is possible at up to 3x magnification (equivalent to 32 mm – 96 mm on a 35 mm camera). By combining the digital zoom with the 3x optical zoom, zoom magnification up to 7.5x is possible.

Shoot a wider picture (wide-angle)

Press the zoom lever toward W to zoom out.

Zoom in on a subject (telephoto)

Press the zoom lever toward T to zoom in.



Digital zoom



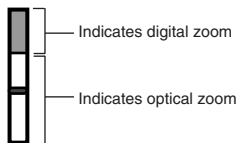
- In the top menu, select **MODE MENU** → **CAMERA** → **DIGITAL ZOOM** → **ON**, then press to complete the setting. To start shooting, press again.

- The monitor turns on.

- Press the zoom lever towards **T**.

- If the monitor is turned off, the picture returns to 1x.

Zoom area



Digital zoom ON



The cursor moves on the zoom indicator according to the zoom magnification.

Zoom — Telephoto/Wide-angle shooting (Cont.)

Setting limitations and Default settings (Digital zoom)

The setting for the Digital zoom differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation	Factory default setting
S-Prg	ON or OFF is available.	OFF
P		
A/S/M/ 		

- The Digital zoom cannot be set separately for each mode except for  mode. Change in one shooting mode is forcibly applied to other shooting modes except for  mode so long as they are allowed to change the setting for this function.
- For  mode, the setting can be changed separately from other shooting modes.

Note:

- Images captured with the Digital Zoom may appear grainy.
- Camera movement is likely to happen at higher magnifications. Stabilize the camera with a tripod to avoid camera movement.

Flash shooting

Select a flash mode appropriate to the lighting conditions and the effect you want to achieve. You can also adjust the amount of light emitted using the flash intensity control (P. 94).

The flash modes are as follows:

Auto-flash

Automatically fires in low-light and backlight conditions.

Red-eye reduction flash



This mode significantly reduces the phenomenon of “red-eye” by emitting about 10 pre-flashes before firing the regular flash. This mode works the same as the auto-flash except for the pre-flashes.



The subject's eyes appear red.

!Note:

- After the pre-flash, it takes about 1 second before the shutter is released, so do not move the camera and hold it firmly.
- Effectiveness may be limited if the subject is not looking directly at the preflashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.

Fill-in flash



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



!Note:

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

Flash shooting (Cont.)

Flash off



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

Note:

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

Slow Synchronization

⚡ SLOW1 ⚡ SLOW2 👁 ⚡ SLOW

The Slow Synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a night scene background, fast shutter speeds can make the background too dark. Slow Synchronization flash allows both a slow shutter speed for the background and a flash for the subject.



■ ⚡ SLOW1:

1st curtain (front curtain)

Usually, regardless of the shutter speed, the flash fires right after the shutter fully opens. This is called 1st curtain. Unless you change it, this is how the flash always fires.

Flash shooting (Cont.)

■ ⚡ SLOW2:

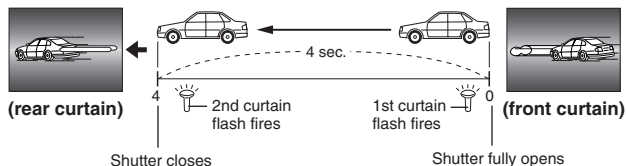
2nd curtain (rear curtain)

In contrast to 1st curtain, 2nd curtain fires the flash 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 taillights streaming backwards. The slower the shutter speed, the better the effects turn out.

Slowest possible shutter speeds:

S mode: 4 sec. M mode: 16 sec. P/A mode: 1 sec.

When the shutter speed is set to 4 sec.



■ 👁 ⚡ SLOW:

1st curtain with red-eye reduction

This is for when you want to use Slow Synchronization yet also reduce red-eye. For instance, when shooting a person against a brightly lit night background.

A normal flash might make the person's eyes red, but 1st curtain with red-eye reduction lets you capture the background correctly and reduce red-eye at the same time.

2nd curtain with red-eye reduction is not available.

Flash shooting (Cont.)

Using the Slow Synchronization flash

Use the menu to select one of the 3 Slow synchronization flash modes above.



In the top menu, select **MODE MENU** → **CAMERA** → **⚡ SLOW** → **⚡ SLOW1**, **⚡ SLOW2** or **👁 ⚡ SLOW**, then press **OK** to complete the setting. To start shooting, press **OK** again.

Setting limitations and Default settings (Slow Synchronization flash)

The setting for the Slow Synchronization flash differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting
S-Prg		The Slow Synchronization flash does not work in the Portrait, Sports and Landscape modes.	
			
			
		Any of the 3 Slow Synchronization flash modes are available.	 SLOW1
		The Slow Synchronization flash does not work in the Movie mode.	
P		Any of the 3 Slow Synchronization flash modes are available.	 SLOW1
A/S/M/ 			

- The Night-scene mode as well as the P and A/S/M/ modes allow you to select any of the 3 Slow Synchronization flash modes. For the Night-scene and modes, the setting can be changed separately from other shooting modes. For P and A/S/M modes, change in one shooting mode is forcibly applied to other shooting modes.

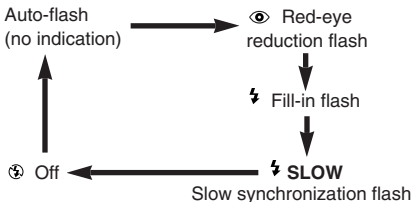
Flash shooting (Cont.)

Using the flash

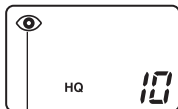


- 1 Press the (flash mode) button repeatedly until the desired flash mode indication appears.

- The flash mode changes as follows:



Control panel



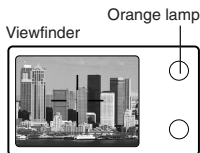
Flash mode

- 2 Press the shutter button halfway.

- Before the flash fires, the orange lamp blinks.

- 3 Press the shutter button all the way.

- The flash fires.



Flash working range

W (max.): Approx. 0.8 m – 3.6 m (2.6 ft – 11.8 ft)

T (max.): Approx. 0.2 m – 3.6 m (8 inches – 11.8 ft)

Flash shooting (Cont.)

Setting limitations and Default settings (Flash mode)

The setting for the Flash mode differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting
S-Prg		⚡ or ⌚ is available.	⚡
		Auto-flash or ⌚ is available.	Auto-flash
			
		⚡ SLOW or ⌚ is available.	Slow Synchronization flash (⚡ SLOW1)
		The Flash mode does not work in the Movie mode.	
P		Any of the 5 Flash modes are available.	Auto-flash
A/S/M/ 	A		
	S	⚡ SLOW or ⌚ is available.	⌚
	M		
		Any of the 5 Flash modes are available.	Auto-flash

 Continued on next page

Flash shooting (Cont.)



TIPS

- **If the flash does not fire**

→ The flash does not fire in the following situations: When shooting a bright subject, in the movie record mode, during Sequential shooting (P. 98), AF Sequential shooting (P. 98) and Auto bracketing (P. 99), when FUNCTION is set to WHITE BOARD/BLACK BOARD (P. 109), during Panoramic shooting (P. 111).

- **If the orange lamp blinks**

→ If the flash is charging. Remove your finger from the shutter button. When the lamp stops blinking, press it again.

- **Camera movement warning (Auto, Red-eye reduction, Fill-in)**

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

Zoom position & Shutter speed

W (max.): 1/30 sec., T (max.): 1/100 sec.

Note:

- The flash may not give you the optimum result in Macro mode, especially with wide-angle shooting. Check the result on the monitor. If a conversion lens is attached to the lens, it may reduce the output of the flash.

Flash shooting (Cont.)

Flash intensity control

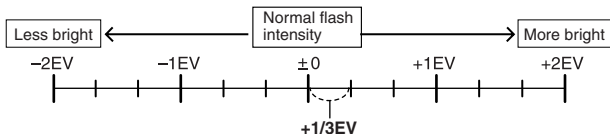
You can adjust the amount of light emitted by the flash.

In some situations, you may get better results by adjusting light emission. Examples include small subjects, distant backgrounds, and when increased contrast is desired.



In the top menu, select **MODE MENU** → **CAMERA** → . To increase the light emission, press Δ . To decrease the light emission, press ∇ . To complete the setting, press .

Adjustable range

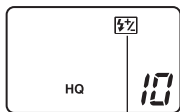


Δ : Light emission is increased by a 1/3 EV each time you press the button.

∇ : Light emission is decreased by a 1/3 EV each time you press the button.

(EV: Exposure Value)

Control panel



Flash intensity control

Continued on next page

Flash shooting (Cont.)

Setting limitations and Default settings (Flash intensity control)

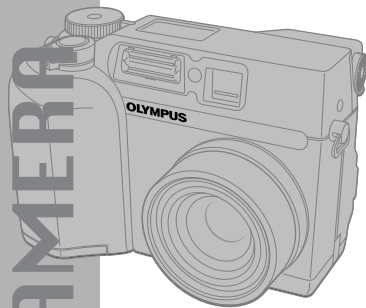
The setting for the Flash intensity control differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (–: Not available)	Factory default setting
S-Prg		–	±0
			
			
			
			
		The Flash intensity control does not work in the Movie mode.	
P		Adjustable throughout the range of –2 to +2.	±0
A/S/M/ 			

- No selection other than the default setting ± 0 is available for the S-Prg mode. The P and A/S/M/  modes allow you to adjust throughout the range of -2 to $+2$. However, change in one shooting mode is forcibly applied to other shooting modes except for  mode.
- For  mode, the setting can be changed separately from other shooting modes.

Note:

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



Chapter 5

Advanced shooting

Advanced shooting methods such as metering modes and special effects let you take more creative pictures.

Sequential shooting

There are 3 Sequential shooting modes: Sequential shooting , AF Sequential shooting  and Auto bracketing BKT.

Sequential shooting modes can be selected from the DRIVE mode menu.

Drive mode

Single-frame shooting  : Shoots 1 frame at a time when the shutter button is pressed all the way. (normal shooting)

Sequential shooting  : Sequential shooting & AF Sequential shooting → P. 98

AF Sequential shooting  : Sequential shooting & AF Sequential shooting → P. 98

Self-timer shooting  : Self-timer shooting → P. 152

Auto bracketing BKT : Auto bracketing → P. 99

Sequential shooting & AF Sequential shooting

Sequential shooting  : Shoots pictures sequentially. Focus, exposure and white balance are locked at the first frame.

AF Sequential shooting  : Shoots pictures sequentially. Focus is locked for each frame automatically. The AF Sequential shooting speed is lower than normal sequential shooting.

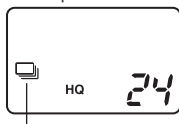


- 1 In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** →  or .

2 Take pictures.

- Press the shutter button all the way and keep it pressed. The camera takes pictures in sequence until you release the button.
- Sequential shooting speed (HQ mode): 1.7 frames/sec. approx., number of pictures: 5 max.

Control panel



Sequential shooting

!Note:

- Also read “Setting limitations and Default settings (Drive mode)” on P. 100 and the “Note” on P. 101.

Sequential shooting (Cont.)

Auto bracketing — Shooting pictures sequentially with a different exposure for each frame

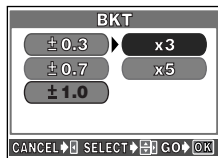
Under some conditions, you may obtain better results shooting with exposure compensation than by using the exposure setting considered optimal by the camera. When Auto bracket is set, exposure is changed automatically for each frame by keeping the shutter button pressed. The exposure differential can be selected in the menus. Focus and white balance are locked at the first frame.

Ex: When BKT is set to ± 1.0 , x3



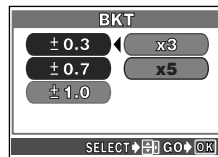
1 In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** → **BKT**, then press $\triangleright$.

2 Press $\triangle/\nabla$ to select the exposure differential between each frame (± 0.3 , ± 0.7 , ± 1.0), then press $\triangleright$.



3 Press $\triangle/\nabla$ to select the number of frames to shoot (x3, x5), then press $\odot$.

- In some combinations of picture size and record mode (NORMAL/HIGH), only x3 is available.



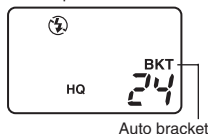
Continued on next page

Sequential shooting (Cont.)

4 Take pictures.

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

Control panel



Setting limitations and Default settings (Drive mode)

The setting for the Drive mode differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting
S-Prg		Single-frame shooting, Sequential shooting or Self- timer shooting is available.	Single-frame shooting
			
			
		Single-frame shooting or Self- timer shooting is available.	
		The Drive mode does not work in the Movie mode.	
P		Any of the 5 Drive modes are available.	Single-frame shooting*
A/S/M 			

* If BKT is selected, the exposure differential: ± 1.0 and the number of frames: x3 are used as default settings.

- As in Drive mode, the shooting modes are classified into the following 4 groups in which the members share the same setting with each other. If the setting is changed in one of members of a group, the changed setting is forcibly applied to the other members within the group.

Group 1

S-Prg shooting modes (Portrait, Sports and Landscape modes)

Group 2

S-Prg shooting mode (Night-scene mode)

Group 3

P and A/S/M shooting modes

Group 4

shooting mode

Note:

- Sequential shooting ( , AF  , BKT) is not possible in the TIFF record mode (P. 114).
- During sequential shooting ( , AF  , BKT), the flash does not fire.
- If there is not enough space available on the SmartMedia card during auto bracketing, you cannot continue shooting for another picture.
- Auto bracketing is available in the record modes other than the TIFF and SHQ record modes. When you select the SQ HIGH (1600x1200) record mode, the number of frames that you can select is limited to x3.
- If the ISO is set to over 200, noise may appear under some shooting conditions (P. 118).
- If the battery power is low and the battery check blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.
- Underexpose may occur when shooting a subject in the dark.

Metering modes

— Metering the subject brightness

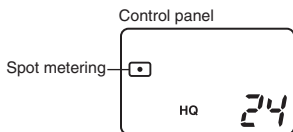
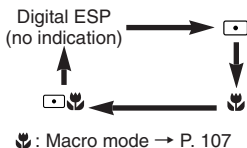
There are 2 metering methods: Digital ESP metering and Spot metering.

Digital ESP metering → Meters the center of the subject and the area around it. The camera is set to this metering method at the factory.

Spot metering → Exposure is determined by metering within the AF target mark. In this mode, a subject can be shot with optimal exposure regardless of the background light. In the working range of the macro mode, spot metering is also available (spot metering+macro mode).



- 1 Press the button repeatedly until (Spot metering) or (Spot metering+Macro mode) appears on the control panel.



- 2 Take a picture.

Supported working range

Normal (except macro) : 0.8 m to ∞ (2.6 ft to ∞)

Macro : 0.2 m to 0.8 m (8 inches to 2.6 ft)

Metering modes — Metering the subject brightness (Cont.)

Setting limitations and Default settings (Metering modes)

The setting for the Metering modes differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (–: Not available)	Factory default setting
S-Prg		—	Digital ESP
			
			
			
		Digital ESP or Spot metering is available.	
P		Any of the 4 Metering modes are available.	
A/S/M/ 			

- No selection other than the default setting Digital ESP is available for the S-Prg mode except for the Movie mode. For the Movie mode, Digital ESP or Spot metering is available. The P and A/S/M/  modes allow you to select any Metering mode. However, change in one shooting mode is forcibly applied to other shooting modes except for  mode.
- For  mode, the setting can be changed separately from other shooting modes.

Note:

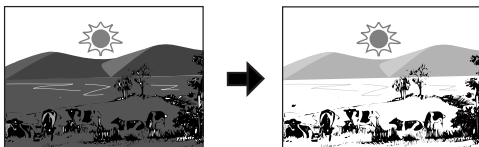
- If the camera is set to manual focus, you cannot select the macro mode.

 Continued on next page

Metering modes — Metering the subject brightness (Cont.)

AE lock — Locking the exposure

Suitable for situations when optimal exposure is difficult to achieve (such as excessive contrast between the subject and the surroundings). For example, if the sun is in the frame and shooting with automatic exposure results in a dark subject, re-compose your shot so that the sun is not in the frame. Then, press the **AEL/** button to lock the metered value (exposure) temporarily. Then compose your shot again with the sun in the frame and shoot. In other words, use AE lock when you want an exposure setting that's different from the setting that would normally apply to the image you want to shoot.



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

- To cancel AE lock, press the **AEL/** button again and release it quickly. If you want to lock a different exposure, re-compose the picture and press the button again. Each time you press the button, lock and cancel are repeated.
- AE lock is canceled → See “TIPS” (P. 106).

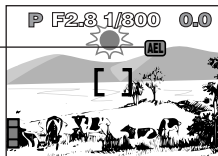


Metering modes — Metering the subject brightness (Cont.)

2 Place the subject you want to focus on within the AF target mark, then press the Shutter button halfway.

- The green lamp lights.

During AE lock, **AEL** is displayed.
AE lock cannot be canceled while the shutter button is pressed halfway.



3 Press the Shutter button all the way.

- After shooting, AE lock is canceled and **AEL** disappears.

Setting limitations and Default settings (AE lock)

The setting for the AE lock differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting (–: No setting)
S-Prg		AE lock does not work in the S-Prg mode.	
P		Available	–
A/S/M/	A		
	S		
	M	AE lock does not work in the M mode.	–
		Available	

!Note:

- If you select M (Manual mode) with the mode dial set to the A/S/M/ position, you cannot select the AE lock.

Continued on next page

Metering modes — Metering the subject brightness (Cont.)



TIPS

- **How to save the locked exposure after shooting (AE memory)**

→ After step 2 or 3, hold down the **AEL/** button for more than 1 second. **MEMO** appears. When **MEMO** appears, the locked exposure is memorized. To cancel AE memory, press the **AEL/** button and release it quickly.

- **If AE lock is not available**

→ The menu is on the screen. Exit the menu (P. 48).

- **If AE lock has been canceled**

→ The mode dial setting has been changed.

→ You turned off the camera once and turned it on again. However, in the sleep mode, AE lock is not canceled.

→ The spot metering/macro mode, drive mode or flash mode was changed.

Macro mode shooting — Taking close-up pictures

Allows you to shoot close to the subject (no closer than 0.2 m (8 inches)) so that you can fill the entire frame with your subject while the zoom lever is pressed to the maximum W position.

When your target subject is at the center of the frame as shown in the right-side example below, macro mode shooting with the Spot metering (P. 102) will bring you a better picture.

If you are close to a subject, the picture area in the viewfinder is different from the picture that the camera actually records (P. 79). For macro mode shooting, we recommend using the monitor (P. 81).

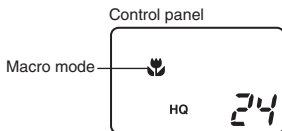
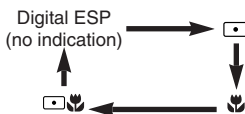
Normal shooting



With the macro mode



- Press the button repeatedly until (Macro mode) or (Spot metering+Macro mode) appears on the control panel.



- Take a picture.

Supported working range

Normal (except macro) : 0.8 m to ∞ (2.6 ft to ∞)

Macro : 0.2 m to 0.8 m (8 inches to 2.6 ft)

Macro mode shooting — Taking close-up pictures (Cont.)

Setting limitations and Default settings (Metering modes)

The setting for the Metering modes differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (-: Not available)	Factory default setting
S-Prg		—	Digital ESP
			
			
			
		Digital ESP or Spot metering is available.	
P		Any of the 4 Metering modes are available.	
A/S/M/ 			

- No selection other than the default setting Digital ESP is available for the S-Prg mode except for the Movie mode. For the Movie mode, Digital ESP or Spot metering is available. The P and A/S/M/  modes allow you to select any Metering mode. However, change in one shooting mode is forcibly applied to other shooting modes except for  mode.
- For  mode, the setting can be changed separately from other shooting modes.

FUNCTION — Taking black & white or sepia-toned pictures

Lets you add special effects to your pictures during shooting. 4 effects are available.

BLACK&WHITE : Takes pictures in black and white.

SEPIA : Gives pictures a sepia tone.

WHITE BOARD : Pictures are in black and white, with black letters on white backgrounds emphasized to make them easier to read.

BLACK BOARD : Same as WHITE BOARD, but for white letters on black backgrounds. Reverses blacks and whites in the image.



In the top menu, select **MODE MENU** → **CAMERA** → **FUNCTION** → Select a mode, then press to complete the setting. To start shooting, press again.

Setting limitations and Default settings (Function shooting)

The setting for the Function shooting differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation	Factory default setting
S-Prg	OFF, BLACK&WHITE or SEPIA is available.	OFF
P	Any of the 5 function-shooting modes are available.	
A/S/M/ 		

- For the S-Prg mode, the change in one mode is forcibly applied to the other modes in the S-Prg mode. For the P and A/S/M modes, the change in one shooting mode is forcibly applied to other shooting modes as well.
- For mode, the setting can be changed separately from other shooting modes.

Continued on next page

FUNCTION — Taking black & white or sepia-toned pictures (Cont.)



TIPS

- If letters do not show clearly with **WHITE BOARD** or **BLACK BOARD**
→ Use exposure compensation (P. 120).

Note:

- When **WHITE/BLACK BOARD** are selected, the flash is automatically set to off  (Flash override mode) (P. 89).
- **WB** (white balance) and  (white balance compensation) cannot be used in Function shooting.

Panorama shooting

You can take advantage of panorama shooting with Olympus CAMEDIA-brand SmartMedia cards. (Non-Olympus cards do not support this feature.) Panorama shooting lets you connect images with overlapping edges into a single panoramic image, using the CAMEDIA Master software that comes with the camera.



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

2 Press $\blacktriangleright$.

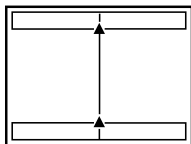
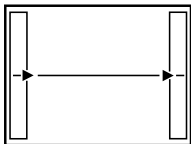
- The PANORAMA mode is set.

3 Press the arrow pad to choose at which edge (top/bottom/right/left) you want to connect images.

- The direction is displayed.

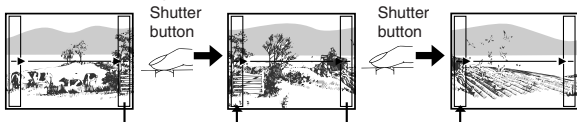
For connecting pictures from left to right.

For connecting pictures from bottom to top.



4 Make sure that the edges of images overlap, then take your pictures.

- Focus, exposure and white balance are fixed to those set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
- Do not adjust the zoom after the first picture. Pictures with differently sized images cannot be connected.
- Panorama shooting is possible for up to 10 pictures.



Decide the composition of each picture so that the left (right for connecting pictures from right to left) edge of the new picture and the right (left for connecting pictures from left to right) edge of the previous picture overlap exactly.

Continued on next page

Panorama shooting (Cont.)

5 Press to finish panorama shooting.

- Frames on the edges of the screen disappear, and the camera returns to the normal shooting mode.

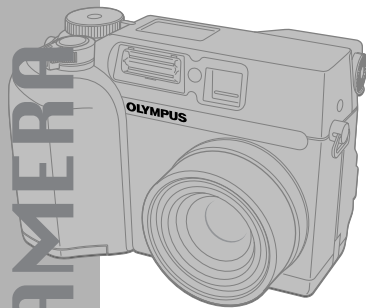
Setting limitations and Default settings (Panorama shooting)

The setting for the Panorama shooting differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting (-: No setting)
S-Prg		Available	—
			
			
			
		Panorama shooting does not work in the Movie mode.	
P		Available	—
A/S/M/ 		Panorama shooting does not work in the A/S/M/  mode.	

Note:

- During panorama shooting, the flash is disabled.
- The Panorama mode is only available with the OLYMPUS CAMEDIA-brand SmartMedia cards.
- The camera itself cannot edit panorama pictures. To connect each picture, the CAMEDIA Master software that comes with this camera is required.
- Your computer's memory may be insufficient to perform the panorama editing if you take too many panorama pictures in the HQ/SHQ modes.
- Images are saved in JPEG format when panorama shooting is done in the TIFF mode.
- If the mode dial is moved during panorama shooting, the camera cancels the panorama mode and returns to normal shooting.



Chapter 6

Adjusting image quality and exposure

Record Mode

Selecting Record Modes

The Record mode can be changed to choose the best record mode for your purposes (printing, editing on a computer, web-site editing, etc.). To see how large SmartMedia memory capacity is under various conditions (such as different resolutions, compressions, or file formats), refer to the table on P. 115. The numbers in the table are approximate.



In the top menu, select **MODE MENU**→**PICTURE**→, then select **SHQ**, **HQ** or **SQ**.

- You cannot select SHQ for the  Movie mode.
- Even if you select SQ, there is no choice for the resolution. It is fixed to 640x480 (NORMAL) in the S-Prg mode.



1 In the top menu, select **MODE MENU**→**PICTURE**→, then press .

2 Press   to select the desired record mode (refer to the table below), then press .

Record mode	Description	Quality	File size
TIFF	The highest-quality mode. Images are saved as uncompressed data, which is the best for printing or image-processing on a computer. This mode has different resolutions to choose from, depending on how it is used.	 More clear Normal	 Larger Smaller
SHQ	A high quality mode using the JPEG format. Because the compression rate is very low, high quality images can be stored.		
HQ	A high quality mode using the JPEG format, with medium compression. Because the compression rate is higher than SHQ, file sizes are smaller, so more images can be saved to a SmartMedia card.		
SQ	The most compressed modes. For each one, you can also choose HIGH (to reduce noise) or NORMAL (to save more images). Select the best settings for your purpose (printing, Internet pages, etc.).		

Record Mode (Cont.)

3 If you select the **TIFF** or **SQ** record mode in step 2 above, press $\triangleright$, then press $\triangle \nabla$ to select the resolution for **SQ** and **TIFF** modes (refer to the table below).

- When **SQ** is chosen, **HIGH** or **NORMAL** can be selected in addition to the resolution.

Still Picture Record Modes

The memory capacity listed here is approximate.

Record mode	Resolution		Compression	File format	Memory capacity in No. of shots	
					16MB	32MB
TIFF	2048x1536		Uncompressed	TIFF	1	3
	1600x1200				2	5
	1280x960				4	8
	1024x768				6	13
	640x480				16	33
SHQ	2048x1536		Low compression	JPEG	8	17
HQ	2048x1536		Normal		21	42
SQ	1600x1200	HIGH	★		12	25
		NORMAL			32	64
	1280x960	HIGH			21	42
		NORMAL			49	99
	1024x768	HIGH			26	53
		NORMAL			76	153
	640x480	HIGH			66	132
		NORMAL			165	331

*HIGH uses low compression/NORMAL uses normal compression

Movie Record Modes

Memory capacity in sec. per movie

Record mode	Resolution	8MB	16MB and higher
HQ	320x240 (15 frames/sec.)	24	38
SQ	160x120 (15 frames/sec.)	105	168

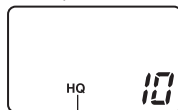
 Continued on next page

Record Mode (Cont.)

4 Press to save the setting.

- The screen returns to the record mode setting screen.
- The record mode you set is displayed on the control panel.

Control panel



Record mode

Setting limitations and Default settings (Record mode)

The setting for the Record mode differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation	Factory default setting
S-Prg		SHQ, HQ or SQ is available.	HQ
			
			
			
		HQ or SQ is available.	
P		Any of the 4 Record modes are available.	
A/S/M 			

- As in Record mode, the shooting modes are classified into the following 4 groups in which the members share the same setting with each other. If the setting is changed in one of members of a group, the changed setting is forcibly applied to the other members within the group.

Group 1

S-Prg shooting modes ( Portrait,  Sports,  Landscape and  Night-scene modes)

Group 2

S-Prg shooting mode ( Movie mode)

Group 3

P and A/S/M shooting modes

Group 4

 shooting mode



TIPS

- **Resolution**

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

- **Resolution and picture size on a computer screen**

When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken in 640x480 resolution is the same size as the screen if you set the picture to 1x when the monitor setting is 640x480. However, if the monitor setting is over 640x480 (such as 1024x768), the picture only takes up part of the screen.

- **Compression rate**

In record modes other than TIFF, image data is compressed. The higher the compression rate, the less clear the image.

- **File format**

This camera saves images with either TIFF or JPEG formats (Quick Time Motion JPG format for movie recording). In record modes other than TIFF, images are compressed in the JPEG format. The compression rate also varies in each mode (TIFF = high quality/large file size, JPEG = standard or low quality/small file size).

!Note:

- SmartMedia memory capacities listed in the table are approximate.
- The number of storable images differs depending on the Record mode, the card's memory size or the Preset print.

ISO Sensitivity

The higher the ISO value, the greater the camera's light sensitivity and the better its ability to shoot in low-light conditions. However, higher values also produce more "noise" in the resulting images.



In the top menu, select **MODE MENU** → **CAMERA** → **ISO**, choose the best one for your shooting conditions from among **AUTO**, **100**, **200** and **400**, then press to complete the setting. To start shooting, press again.

AUTO : Sensitivity is automatically adjusted according to the lighting conditions and the subject brightness.

100/200/400 : 100 is best when you want to shoot clear, sharp images in daylight. With a higher ISO setting, you can use faster shutter speeds with the same amount of light.

Setting limitations and Default settings (ISO sensitivity)

The setting for the ISO sensitivity differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (-: Not available)	Factory default setting
S-Prg		—	AUTO
			
			
			
		Any of the 4 ISO sensitivities are available.	
P			
A/S/M/ 	A	100, 200 or 400 is available.	100
	S		
	M		
		Any of the 4 ISO sensitivities are available.	AUTO

- No selection other than the default setting AUTO is available for the S-Prg mode except for the Movie mode. For the P and A/S/M/ modes including the Movie mode, the change in one shooting mode is forcibly applied to other shooting modes including the Movie mode.

ISO Sensitivity (Cont.)

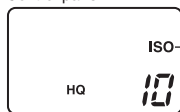
Monitor



ISO

This does not appear during the AUTO setting.

Control panel



ISO

Note:

- Higher ISO settings can produce more noise.
- ISO is standardized based on the sensitivity of normal camera film. The scale is approximate.
- When ISO is set to AUTO and you are shooting in dark conditions without a flash, ISO automatically increases; otherwise the shutter speed will be reduced, possibly resulting in camera movement and blurred images.
- When ISO is set to AUTO and you are shooting a distant subject that stands out of reach of the flashlight, ISO automatically increases.

Exposure Compensation

This function allows you to make minute changes to the present exposure setting. In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually. You can adjust between ± 2.0 in $1/3$ steps. The current exposure compensation value is displayed on the monitor.



Adjusts towards –
(images become darker)



Adjusts towards +
(images become brighter)



– 2.0



0.0



+ 2.0

Control panel



Exposure compensation

Exposure Compensation (Cont.)

Setting limitations and Default settings (Exposure compensation)

The setting for the Exposure compensation differs depending on the shooting mode concerned as shown below.

Mode dial (Mode Menu)		Setting limitation	Factory default setting
S-Prg		Adjustable through the range of − 2 to + 2.	± 0
P			
A/S/M/ 	A		
	S		
	M	Exposure compensation does not work in the M mode.	
		Adjustable through the range of − 2 to + 2.	± 0

- The Exposure compensation cannot be set separately for each mode. However, the change in one shooting mode is forcibly applied to the other shooting modes so long as they are allowed to change the setting for this function.



TIPS

- Often, white objects (such as snow) will turn out darker than their natural colors. Adjusting towards $+$ makes these objects closer to their real shades. For the same reason, adjust towards $-$ when shooting black objects.

White Balance

Color reproduction differs depending on the lighting conditions. For instance, when daylight, the setting sun, or indoor lighting are reflected on white paper, the shade of white produced will be slightly different for each. By setting the WB (white balance), you can achieve more natural-looking color.



In the top menu, select **MODE MENU** → **PICTURE** → **WB**, then select the best WB (**AUTO**, **PRESET**, ) for your shooting conditions.

AUTO (auto white balance)

Automatically adjusts the white balance for any light source.

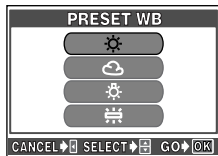
PRESET (preset white balance)

Choose from four white balance settings depending on the type of light:

- ☀ :Daylight
- ☁ :Overcast
- ☀ :Tungsten
- ⚡ :Fluorescent

You can also view the various tones of color by trying different PRESET WB settings from the actual light source, and confirming the result on the monitor.

PRESET WB screen



(One-Touch white balance)

This function is useful when you need more precise white balance than PRESET WB can give. Point the camera at a white object located under the target lighting source before you start shooting so that the camera can determine the proper white balance for that lighting condition.

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

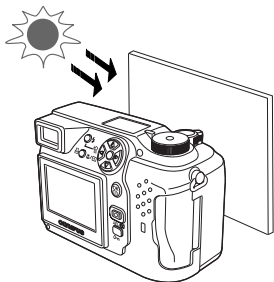
- The  **ONE TOUCH WB** screen appears.

 **ONE TOUCH WB screen**



2 Point the camera at a sheet of white paper.

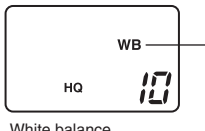
- Position the paper so that it fills the screen entirely. Be sure there is no shadow or background showing around the paper.



3 Press to store the new white balance setting.

- To cancel  ONE TOUCH WB, press .

Control panel



White balance

This does not appear during the AUTO setting.

4 Press repeatedly until the menu disappears.

White Balance (Cont.)

Setting limitations and Default settings (White balance)

The setting for the White balance differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)		Setting limitation (–: Not available)	Factory default setting
S-Prg		—	AUTO
			
			Night-scene specific setting
			
			
P		Any of the 4 preset White balances are available.	AUTO
A/S/M/ 			

- No selection other than the default setting AUTO is available for the S-Prg mode (the Night-scene mode has its own default setting). For the P and A/S/M/  modes, the change in one shooting mode is forcibly applied to other shooting modes.

Note: _____

- We recommend using AUTO for normal shooting.
- When setting the white balance by pointing the camera at white paper, the setting may be incorrect if the light reflected by the paper is too bright or dark.
- White balance may not be effective under some special light sources.
- After setting the white balance, playback the image and check the color on the monitor.

White Balance (Cont.)

White Balance Adjustment

This function allows you to make minute changes to the white balance.



In the top menu, select **MODE MENU** → **PICTURE** → **WB**, then press **▷**.

The white balance adjustment indicator appears on the screen.

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



White balance adjustment indicator

Setting limitations and Default settings (White balance adjustment)

The setting for the White balance adjustment differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation (-: Not available)	Factory default setting
S-Prg	—	± 0
P	Adjustable throughout the range of RED to BLUE.	
A/S/M/ 		

- No selection other than the default setting ± 0 is available for the S-Prg mode. For P and A/S/M/ modes, the setting can be adjusted throughout the range of RED to BLUE. However, the change in one shooting mode is forcibly applied to other shooting modes except for mode.
- For mode, the setting can be changed separately from other shooting modes.

Sharpness

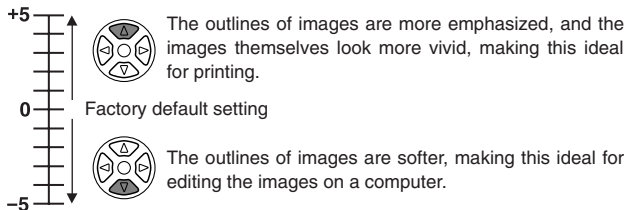
This function adjusts the sharpness of images.



In the top menu, select **MODE MENU** → **PICTURE** → **SHARPNESS**, then press $\triangleright$.

Sharpness can be adjusted between +5 and -5 using Δ ∇ .

Press $\odot$ after selecting the desired value to complete the setting. To start shooting, press $\odot$ again.



Setting limitations and Default settings (Sharpness)

Sharpness can be adjusted within the range of -5 to +5 for all the shooting modes. The default setting is ± 0 for all the shooting modes. The shooting modes are classified into the following two groups in which the members share the same setting with each other. If the setting is changed in one of the members of a group, the changed setting is forcibly applied to the other members of the group.

Group 1

S-Prg (Portrait, Sports, Landscape, Night-scene and Movie modes), P and A/S/M shooting modes

Group 2

shooting mode

Note:

- When adjusted too much towards +, noise may appear.

Contrast

This function adjusts the contrast of images.

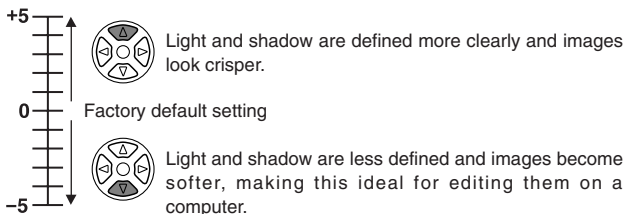
For example, images with strong differences in light and shadow can become milder, while those with weaker differences can become more vivid.



In the top menu, select **MODE MENU** → **PICTURE** → **CONTRAST**, then press $\blacktriangleright$.

Contrast can be adjusted between +5 and -5 using Δ ∇ .

Press OK after selecting the desired value to complete the setting. To start shooting, press SH again.



Setting limitations and Default settings (Contrast)

Contrast can be adjusted within the range of -5 to +5 for all the shooting modes. The default setting is ± 0 for all the shooting modes. The shooting modes are classified into the following two groups in which the members share the same setting with each other. If the setting is changed in one of the members of a group, the changed setting is forcibly applied to the other members of the group.

Group 1

S-Prg (Portrait , Sports , Landscape , Night-scene and Movie modes), P and A/S/M shooting modes

Group 2

Movie shooting mode

Noise Reduction

This function reduces the noise that appears on images during long exposures. When shooting night scenes, shutter speeds become slower and noise tends to appear on images. When noise reduction is set to ON, the camera automatically reduces noise to produce clearer images. However, shooting time is approximately twice as long as usual.

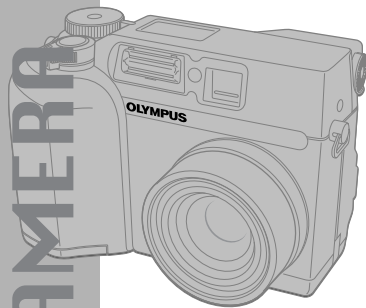
Noise reduction can only be used when the shutter speed is set slower than 1/2 sec.



In the top menu, select **MODE MENU** → **CAMERA** → **NOISE REDUCTION** → **ON**.

Note:

- When you set noise reduction to ON, shooting time is approximately twice as long as usual, because the camera needs extra time to finish the noise-reduction process. During this time, shooting the next picture is not possible.
- When you set noise reduction to ON, sequential shooting (, , BKT) is not possible.
- This function may not work well with some shooting conditions or subjects.
- When you set noise reduction to ON, we recommend use of a tripod so that you can select a slower shutter speed.



Chapter 7

Playback

This chapter explains how to play back still pictures or movies, plus how to use available functions when the mode dial is set to  (playback).

Playing Back Still Pictures

Single-Frame Playback

Plays back one picture.

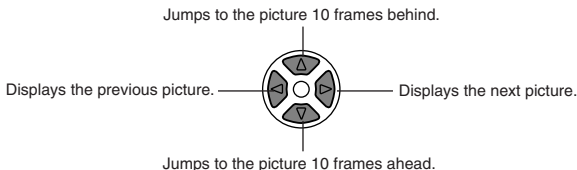


1 Set the mode dial to (playback).

- The monitor turns on and displays the last picture taken.

2 Use the arrow pad to play back other pictures.

- The  mark is attached to pictures from movies. → See “Playing Back Movies” on P. 132.



Quick View

This function lets you play back pictures while the camera is in the shooting mode. This is useful when you want to check shooting results quickly. Every picture and function available in playback mode is also available in Quick View.



1 Press (monitor button) twice quickly while in the shooting mode.

- The monitor turns on and displays the last picture taken.
- To play back other pictures, use the arrow pad in the same way as single-frame playback.

2 To return to shooting, press the shutter button halfway.

Slide-Show

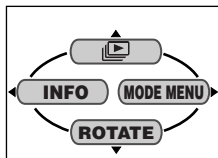
This function displays pictures from the card one after another, as if you are watching a slide-show.

For movies, only the first frame is played back as a still picture.



- 1 Set the mode dial to and display a still picture. Then, press to display the top menu.

Playback top menu (still pictures)



- 2 Press to start the slide-show.

- 3 Press to stop the slide-show.

Note:

- Use of the AC adapter (optional) is recommended when running a slide-show for long periods of time. If batteries are being used, the camera ends the slide-show after about 30 minutes and enter sleep mode.
- The slide-show does not stop until you cancel it by pressing .

Playing Back Movies

— MOVIE PLAY

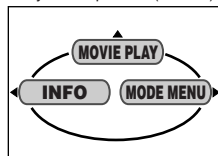
This function lets you play back movies.



- 1 Set the mode dial to and select a picture attached with by using the arrow pad.

- 2 Press to display the top menu.

Playback top menu (movies)



- 3 Press . The card access lamp starts blinking and movie data in the card is sent to the camera, and then it starts Playback.

- When the movie finishes playing, the display automatically returns to the first frame.
- If you press again, the MOVIE PLAYBACK screen is displayed.

MOVIE PLAYBACK screen



PLAYBACK:

Plays back the entire movie again.

FRAME BY FRAME:

Plays back the movie manually.

EXIT:

Leaves the movie playback mode.

Playing Back Movies — MOVIE PLAY (Cont.)

4 Press $\triangle \nabla$ to select items.

5 Press  to start your choice.

- When FRAME BY FRAME is selected, follow the instructions below.

■ Displaying movies using the arrow pad

$\triangle$: Displays the beginning of the movie.

∇ : Displays the end of the movie.

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

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

: Displays the MOVIE PLAYBACK screen.

!Note:

- When playing back a movie, download time varies depending on the length and record mode of the movie.

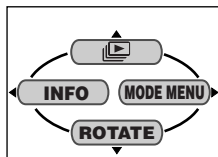
Displaying Shooting Information

This function lets you select how much shooting information is on the monitor in the playback mode. When it is set to OFF, only a small amount of information is displayed. For details on each piece of information displayed, see P. 18, 19.



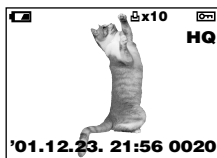
- 1 Press  to display the top menu.

Playback top menu (still pictures)

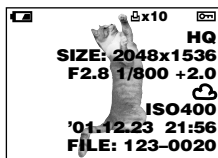


- 2 Pressing  turns INFO on and displays the full amount of shooting information on the monitor.

- To turn INFO off, bring up the top menu and press  again.



When INFO is OFF



When INFO is ON

Close-up Playback

Pictures displayed on the monitor can be enlarged. Each time you turn the zoom lever towards T, pictures are enlarged by 1.5, 2, 2.5 or 3 times.

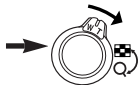


1 With the arrow pad, select the picture you want to enlarge.

- Pictures with the  mark cannot be enlarged.

2 Turn the zoom lever toward T ().

- When a picture is enlarged, / / /  are displayed. Press the arrow corresponding to the direction you want to view. The enlarged picture is shifted in the desired direction, allowing you to view a different portion of the image.



TIPS

• How to return the picture to the original size (1x)

→ Turn the zoom lever to W.

• How to display another picture

→ Turn the zoom lever to W to return to 1x, then select the desired picture by using the arrow pad.

Index Display

This function lets you show many pictures at the same time on the monitor. It is useful for comparing your pictures and choosing the best ones. The number of pictures shown can be 4, 9, or 16 (P. 137).

In the single-frame playback mode (P. 130), press the zoom lever to W (),

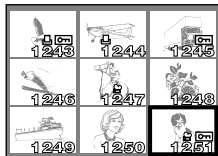
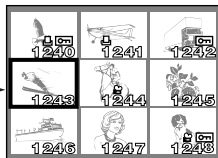
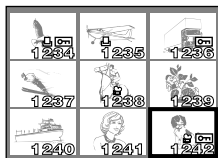


Index display (9-frame)



Pictures, including the one displayed in the single-frame playback mode, appear in the index display.

■ How to use the arrow pad during an index display



◁: Moves to the previous frame.

▷: Moves to the next frame.

Δ: Jumps to the previous index display (the frames before the top left frame).

∇: Jumps to the next index display (the frames following the bottom right frame).

Index Display (Cont.)



TIPS

- **How to view a full-size picture from the index**
→ Select the picture with the arrow pad, then press the zoom lever toward T.

Selecting the Number of Pictures

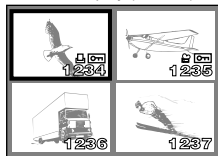
This function lets you change the number of pictures in an index display.



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

2 Choose the number of pictures (4, 9 or 16) with $\triangle$ or ∇ and press .

Index display (4-frame)



Picture Rotation

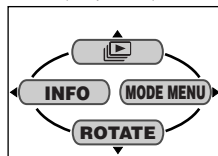
There may be times when you want to rotate a picture. For example, pictures taken with the camera held vertically are also oriented vertically (i.e. longer vertically than horizontally). With picture rotation, you can turn them horizontally, 90 degrees clockwise, or counter-clockwise.



1 Confirm that the mode dial is set to and select the picture that you want to rotate with the arrow pad.

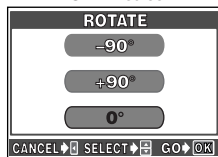
2 Press to display the top menu.

(playback) top menu
(still pictures)



3 Press .
 • ROTATE screen appears.

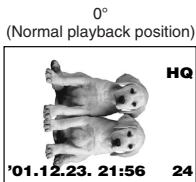
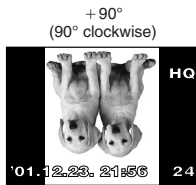
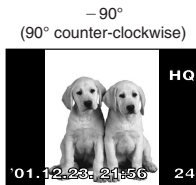
ROTATE screen



Picture Rotation (Cont.)

4 Select the rotating direction with $\triangle$ or ∇ .

Picture after rotation



5 Press .

- The picture is rotated.

Note:

- Movie pictures cannot be rotated.
- New picture orientations are saved even when the power is turned off.
- Close-up playback is possible after pictures are rotated. However, pictures cannot be rotated while in close-up playback (P. 135).
- The following pictures cannot be rotated:
Protected pictures; Pictures in a card with a write-protect seal; Pictures taken with other cameras.

Protect

Pressing the **On** button in the **▶** mode protects pictures from being erased accidentally.



1 Display the picture you want to protect by using the arrow pad.

2 Press **On**. The picture is now protected.

- To cancel protection, press **On** again.



Displayed when a picture is protected.

Note:

- Protected pictures cannot be deleted with the **ALL ERASE** (all-frame erase) function, but they can be deleted with the **FORMAT** (format) function.
- Protection cannot be applied to pictures stored on a SmartMedia card with a write-protect seal.

Erasing Pictures

Recorded pictures can also be erased.

This can be done either one frame at a time or to all the pictures in the card.

Note:

- Pictures on a SmartMedia card with a write-protect seal cannot be erased.
- Once erased, pictures cannot be brought back.

Single-Frame Erase

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

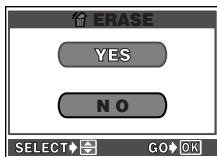
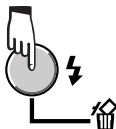


1 Select a picture you wish to erase by using the arrow pad.

- If the picture is protected, cancel the protection (P. 140).

2 Press the (erase) button.

- The  ERASE screen is displayed.



 ERASE screen

3 Press to select YES.

4 Press to erase the picture.

- To cancel erasing, select NO in step 3 and press , or press the  button again.

Erasing Pictures (Cont.)

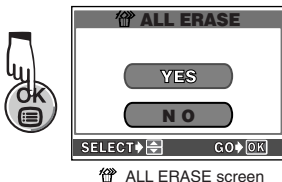
All-Frame Erase

This function erases all still pictures and movies on the SmartMedia card, except protected ones (P. 140).



- 1 In the top menu, select **MODE MENU** → **CARD** → **CARD SETUP** → **ALL ERASE**.

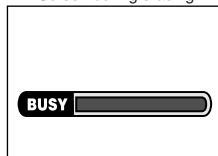
- 2 Press .
 - The **ALL ERASE** screen is displayed.



- 3 Press to select **YES**.

- 4 Press to start erasing.
 - A bar is displayed to show the progress of erasing.
 - To cancel erasing, select **NO** in step 3 and press .

Screen during erasing



Formatting SmartMedia removable memory cards

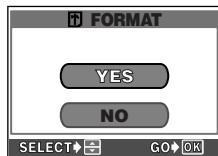
SmartMedia cards must be formatted. Formatting prepares cards to receive data. Olympus CAMEDIA-brand cards are highly recommended for use with this camera. If you are going to use non-OLYMPUS cards or cards formatted by other devices such as a computer, you must format them with the camera before use. Cards can be formatted in one of the shooting modes or  (playback) mode.



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

- 2 Press .
 - The  **FORMAT** screen is displayed.

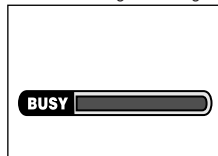
 **FORMAT** screen



- 3 Press  to select **YES**.

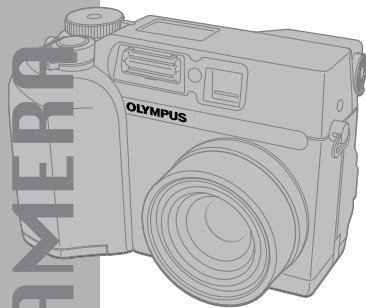
- 4 Press  to start formatting.
 - A bar is displayed to show the progress of formatting.
 - To cancel formatting, select **NO** in step 3 and press .

Screen during formatting



!Note:

- All existing data stored on the card is erased when the card is formatted. Make sure that you save or transfer important data before formatting a used card.
- Recording time may be longer with non-OLYMPUS cards and computer-formatted cards. In such cases, re-formatting with the camera is recommended.
- Cards with a write-protect seal cannot be formatted.
- If any trouble such as card error occurs on the card, use the card after formatting it.



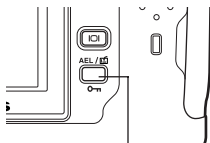
Chapter 8

Useful Functions

This chapter explains various useful camera functions. Also see Chapter 3 “Using the menus”.

Custom Button

Menu items listed in the table below can be set to the custom button on the camera. This makes it easy to jump to frequently-used functions by pressing only one button. The factory default setting is “AE LOCK”.



Custom button

Available Menu Items

Items	Settings
AE LOCK (P. 104) (factory default setting)	—
Drive mode (P. 98)	□ (Single-frame), □ (Sequential), AF□ (AF Sequential), ⌚ (Self-timer), BKT
ISO sensitivity (P. 118)	AUTO, 100, 200, 400
A/S/M/ [M] (P. 67–70)	A, S, M, [M]
Slow synchronization (P. 91)	⚡ SLOW1, ⦿ ⚡ SLOW, ⚡ SLOW2
Noise reduction (P. 128)	OFF, ON
Digital zoom (P. 86)	OFF, ON
Fulltime auto focus (P. 75)	OFF, ON
Auto focus mode (P. 74)	iESP, SPOT
Function (P. 109)	OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD
[Record] Record mode (P. 114)	TIFF, SHQ, HQ, SQ
White balance (P. 122)	AUTO, ☀ (daylight), ☁ (overcast), ☀ (tungsten light), ⚡ (fluorescent)
[One-Touch] One-Touch white balance (P. 122)	—

Custom Button (Cont.)

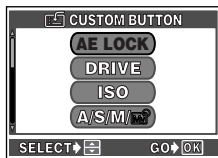
Setting the Custom Button



- 1 In the top menu, select **MODE MENU** → **SETUP** → **CUSTOM BUTTON**. Press $\blacktriangleright$.

- The CUSTOM BUTTON screen appears.

CUSTOM BUTTON screen



- 2 Select the function you want by using $\triangle$ ∇ , then press AEL/ to save your setting.

Using the Custom Button

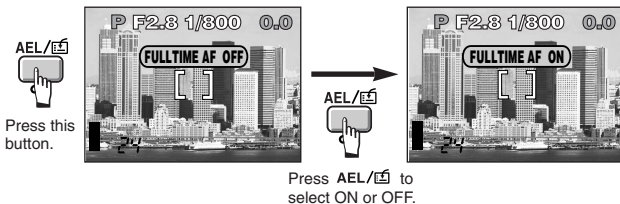


- 1 Press **AEL/** (custom button).

- The function currently set to the custom button appears.

- 2 Press **AEL/** repeatedly until the setting within the function changes to the one you want.

Ex: When FULLTIME AF is set to the custom button.



Continued on next page

Custom Button (Cont.)

Setting limitations and Default settings (Custom button)

The setting for the Custom button differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation	Factory default setting
S-Prg	The AE lock button does not work in the S-Prg mode.	
P	Any of the designated functions can be assigned.*	AE lock
A/S/M/ 		

* The functions that can be assigned to the Custom button are limited to those listed in “Available Menu Items” on P. 146.

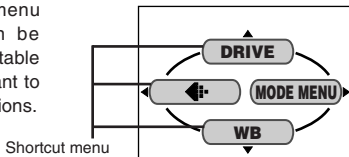
- The Custom button cannot be set separately for each mode.



TIPS

- **Using AE LOCK after setting a different function to the custom button.**
 - AE lock cannot be used when a different function is set to the custom button. Re-set AE LOCK to the custom button by following “Setting the Custom Button” on P. 147.

Three menu items on the top menu other than MODE MENU can be replaced with those listed in the table below. This is useful when you want to quickly go to frequently-used functions.



Available Menu Items

Items	Settings
Drive mode (P. 98)	□ (Single-frame), □ (Sequential), AF□ (AF Sequential), ⌚ (Self-timer), BKT
ISO sensitivity (P. 118)	AUTO, 100, 200, 400
A/S/M/ (P. 67–70)	A, S, M,
Flash adjustment (P. 95)	+2 - ±0 - -2
Slow synchronization (P. 91)	⚡ SLOW1, ⚡ SLOW, ⚡ SLOW2
Noise reduction (P. 128)	OFF, ON
Digital zoom (P. 86)	OFF, ON
Fulltime auto focus (P. 75)	OFF, ON
Auto focus mode (P. 74)	iESP, SPOT
Panorama (P. 111)	OFF, ON
Function (P. 109)	OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD
Record mode (P. 114)	TIFF, SHQ, HQ, SQ
White balance (P. 122)	AUTO, PRESET, (One-Touch)
White balance adjustment (P. 125)	BLUE - ±0 - RED
Sharpness (P. 126)	+5 - ±0 - -5
Contrast (P. 127)	+5 - ±0 - -5

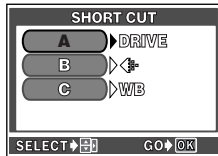
Shortcut (Cont.)

Setting the Shortcut Menu

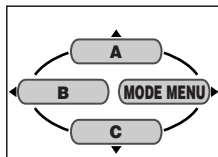


- In the top menu, select **MODE MENU** → **SETUP** → **SHORT CUT**. Press $\triangleright$.
 - The **SHORT CUT** screen appears.

SHORT CUT screen



- Select **A**, then press $\triangleright$ to display the menu functions on P. 149.
 - A, B, and C on the monitor are the same as top, left, and bottom on the top menu.



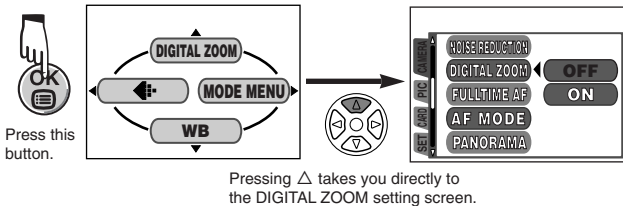
- Select the item you want by pressing $\triangle \nabla$, then press Ⓢ to save your setting.
 - Repeat Steps 2 and 3 to set B and C.

Using the Shortcut Menu



- 1 Press to display the top menu.
 - The shortcut menu you set before is shown on the top menu.
- 2 Press the arrow pad according to the arrow (▲◀▼) shown next to each item.
 - The monitor jumps directly to the setting screen of that item.

Ex: When DIGITAL ZOOM is set to the A shortcut.



Setting limitations and Default settings (Shortcut menu)

The setting for the Shortcut menu differs depending on the shooting mode concerned as shown below.

Mode dial (Mode menu)	Setting limitation	Factory default setting
S-Prg	The Shortcut menu does not work in the S-Prg mode.	
P	Any of the designated functions can be assigned.*	A: Drive mode
A/S/M/		B: Record mode
		C: WB

* The functions that can be assigned to the Shortcut menu are limited to those listed in "Available Menu Items" on P. 149.

- The Shortcut menu cannot be set separately for each mode.

Self-Timer Shooting

This function is useful for taking pictures that you want to be in too.

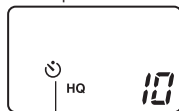


1 Use a tripod to stabilize the camera.

2 In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** → , then press .

-  appears on the control panel.

Control panel

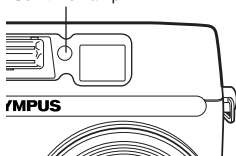


Self-timer

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

- The self-timer lamp on the front of the camera lights up for approx. 10 seconds, then starts blinking. After blinking for approx. 2 seconds, the picture is taken.

Self-timer lamp



TIPS

- To stop the self-timer, press . The self-timer lamp will be turned off.

Note:

- The self-timer mode is canceled after the picture is taken even if OFF is selected in All Reset (P. 153).
- In the S-Prg, P and A/S/M/  modes, only single-frame shooting is possible with the self-timer. Sequential shooting is not available.

All Reset

This function lets you choose whether or not the camera saves its current settings. The settings that All Reset affects are listed below in addition to those listed on P. 157.

Setting	Factory default setting
LCD*	OFF
S-Prg (P. 67)	
Movie record mode (P. 115)	HQ

* This sets the Monitor's ON/OFF when the camera is turned on. Switching between ON and OFF is available only in the P mode. For the S-Prg and A/S/M/  modes, LCD is always set to ON.

■ OFF

The settings just before the power is turned off are saved.

■ ON

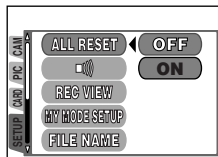
The factory default settings come back when the power is turned off.



- In the top menu, select **MODE MENU** → **SETUP** → **ALL RESET**.

- The ALL RESET setting screen appears.

ALL RESET setting screen



- Select **OFF** or **ON**, then press .

- As in All Reset, all modes including the  (playback) mode share the same setting with each other. If the setting is changed in one mode, the changed setting is forcibly applied to the other modes including the  (playback) mode. However, with some modes such as S-Prg, the default setting stay unchanged even if All Reset is set to OFF.

Beep

You can set the volume of the beep used for button operations or warnings to OFF, LOW or HIGH. The factory default setting is LOW, but you can turn the beep completely off.

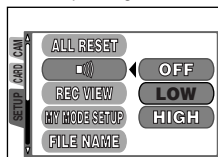


1 In the top menu, select MODE MENU

→ SETUP → .

- The beep setting screen appears.

Beep setting screen



2 Select OFF, LOW, or HIGH, then press .

Rec View

You can choose if the image being recorded is displayed on the monitor during shooting.

■ ON

The image being recorded onto the card is displayed on the monitor. This is useful for a brief check of images you have just taken. Pressing the shutter button halfway at any time displays the image the camera is currently aimed at.

■ OFF

The image being recorded onto the card is not displayed. If you shoot while using the monitor, the subject the camera is pointing at will be displayed. This is useful when you want to prepare your next shot while the previous image is being recorded.



In the top menu, select MODE MENU → SETUP → REC VIEW → ON or OFF.

Note: _____

- If you shoot with the monitor off and battery power is too low, Rec View is not available.

MY MODE SETUP

This function allows you to make your original set of function settings and save it as the  mode. Once you save your settings, you can call the entire setting just by selecting the  mode with the mode dial set to the A/S/M/  position. You can also save some of the settings you are using in the P or A/S/M mode. The settings that MY MODE SETUP affects are listed in the table on P. 157.



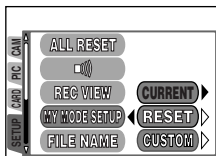
- 1 In the top menu, select **MODE MENU** → **SETUP** → **MY MODE SETUP**, then press .

- 2 Press   to select the item you want (see below), then press .

CURRENT : Saves the settings you are using now. Go to step 3.

RESET : Restores the factory default settings. Go to step 3.

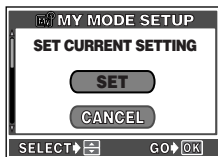
CUSTOM : Saves settings one by one. Go to step 4.



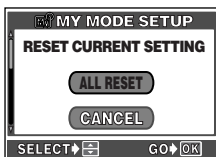
- 3 Set **CURRENT** or **RESET** on each MY MODE SETUP screen. After selecting the setting, press . Go to step 7.

- To cancel the setting, select **CANCEL**.

When CURRENT is selected:
Select **SET**.



When RESET is selected:
Select **ALL RESET**.

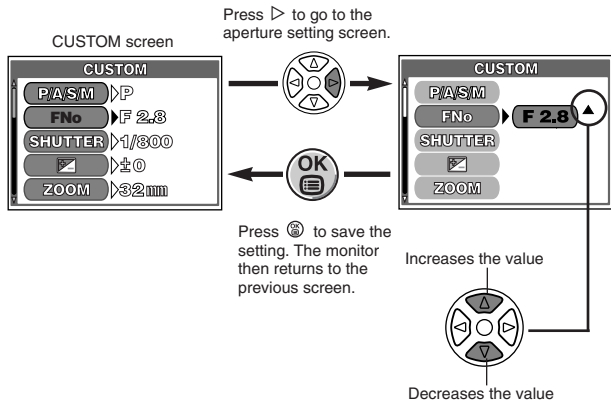


 Continued on next page

MY MODE SETUP (Cont.)

- 4** Set **CUSTOM** on the **CUSTOM** screen. Press $\Delta \nabla$ to select the function you want, then press $\triangleright$.
- 5** Select the setting within the function by using $\Delta \nabla$, then press OK .
 - Repeat steps 4 and 5 to change other functions.

Ex: When setting the aperture on the CUSTOM screen



- 6** To exit from the **CUSTOM** screen, press OK .
 - The menu displayed in step 2 appears.

- 7** Press OK to exit from the menu.

Note:

- When you save settings in **CURRENT**, the saved zoom position may differ from the zoom position you are using. The zoom position is set to one of the four zoom positions included in **ZOOM** (function included in **CUSTOM**). The value closest to the current zoom position will be selected.

Available Items and Factory Default Settings*1

Setting	Factory default setting
P/A/S/M (P. 67–70)	P
Aperture (P. 67)	F2.8
Shutter speed (P. 68)	1/800
Exposure compensation (P. 120)	±0
Zoom*2	32 mm
Flash mode (P. 91)	AUTO
Spot/Macro (P. 102)	OFF
Drive (P. 98)	
Auto/manual focus (P. 76)	AF
ISO sensitivity (P. 118)	AUTO
 Flash intensity control (P. 94)	±0
Slow synchronization (P. 90)	 SLOW1
Noise reduction (P. 128)	OFF

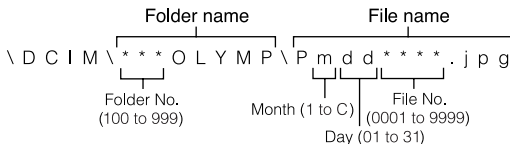
Setting	Factory default setting
Digital zoom (P. 85)	OFF
Fulltime auto focus (P. 74)	OFF
Auto focus mode (P. 73)	iESP
Function (P. 109)	OFF
 Record mode (still pictures) (P. 114)	HQ
White balance (P. 122)	AUTO
 White balance adjustment (P. 125)	±0
Sharpness (P. 126)	±0
Contrast (P. 127)	±0

*1 Factory default settings listed above are the same as those obtained by setting All Reset to ON.

*2 Zoom position is selected from 32 mm/50 mm/70 mm/96 mm when the camera is turned on (these numbers are based on a 35mm camera).

File Name

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



- Month: Jan. - Sep. = 1 - 9, Oct. = A, Nov. = B, Dec. = C

There are two choices here: RESET or AUTO. Choose the one that is best for you when transferring images to a computer.

■ RESET

When RESET is selected, the file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to No. 100, and the file number returns to No. 0001. This is useful when grouping files on separate cards.

■ AUTO

When AUTO is selected, the same folder number is retained, but the file number continues from the previous card, so that the same file number is not used on different cards. This helps you to manage multiple cards. This is useful when a group of files stretches over more than one card.

!Note:

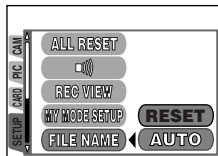
- Even if AUTO is selected, the file and folder numbers are reset if you leave the camera with the batteries removed for more than one hour.



- In the top menu, select **MODE MENU** → **SETUP** → **FILE NAME**.

- The FILE NAME setting screen appears.

FILE NAME setting screen



- Select **RESET** or **AUTO**, then press

File Name (Cont.)



TIPS

● **When the File No. reaches 9999...**

The file number returns to 0001, and the folder number changes, for example, from No. 100 to No. 101.

● **When the both Folder/File No. reach each maximum number (999/9999)...**

The number of storable pictures becomes 0, even if the card is not full yet. No more pictures can be taken.

Measurement Units: m/ft (meters/feet)

Measurement units can be selected from either meters or feet in the manual focus mode. (P. 77)

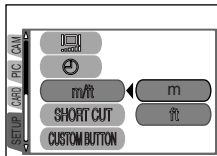
At close ranges, the camera replaces meters/feet with centimeters/inches.



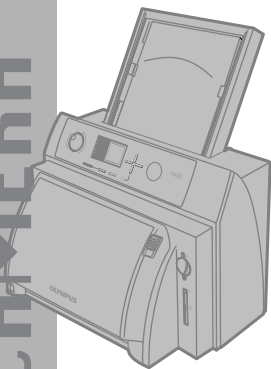
**1 In the top menu, select MODE MENU
→ SETUP → m/ft.**

- The m/ft setting screen appears.

m/ft setting screen



2 Select “m” or “ft”, then press .



Chapter 9

Print setting

Print reserve prepares pictures you have taken with the camera for printing at a photo lab or on your printer.

How to print pictures

When you want to print out pictures that you have taken with this camera and stored on a card, perform Print Reserve (P. 164–166). Print Reserve allows you to save printing data (number of prints, date printed on pictures, etc.) with the pictures stored on the card. Several different printing options are available:

■ Printing at a photo lab that supports DPOF or printing on a DPOF compatible printer

● What is DPOF?

DPOF is short for Digital Print Order Format. DPOF is a format used to record automatic print information from cameras. By specifying which images are to be printed, the images can be printed easily by DPOF-compatible printing service labs or a personal DPOF-compatible printer.

■ Printing on an Olympus CAMEDIA P-400, P-200 or P-330N(E) digital printer

If you insert a card with Print Reserve data into the printer, printing is possible without using a computer. For more details, refer to the printer's instructions.

■ Transferring pictures to a computer (P. 172–184) and printing them from a printer connected to the computer

Refer to the application software's instructions.



TIPS

● Picture size and printing

The resolution of a computer/printer is generally based on the number of dots (pixels) per square inch. This is called “dpi” (dots per inch). The higher the dpi value, the higher the resolution, and the better the printed results. Keep in mind, however, that the dpi of the picture you want to print does not change to match the printer resolution. This means that when you print an image with a lower resolution than the printer, the size of the printed picture will be smaller. Although you can print magnified images, picture quality will decrease. If you want to be able to print large, high-quality pictures, set the picture size in the camera as high as possible (higher record mode) (P. 114).

Note:

- Images taken with this camera can also be printed using a printer or at a photo lab that supports the Design rule for Camera File system/DCF. DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device. If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- Even if an image appears with the message "PICTURE ERROR", Print reserve may be performed on it. In such a case, the print reserve icon () does not appear where an image is displayed for full view. Since  appears where multiple images are displayed (index-display mode), it is possible to confirm the print reserve status.
- This camera cannot be directly connected to printers such as the Olympus P-300 digital printer.
- Not all functions may be available on all printers or at all photo labs.
- If you are printing using the P-330N(E) , only the first 999 images can be printed.
- Print reserve may take considerable time in some cases.
- Print reserve cannot be done when using a card with a write-protect seal.

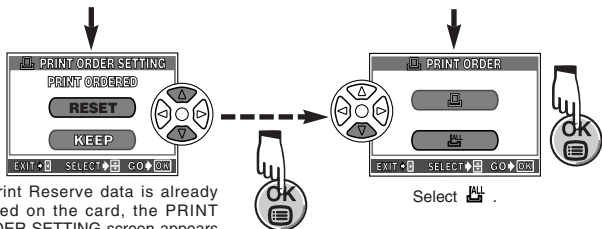
All-frame Print Reserve



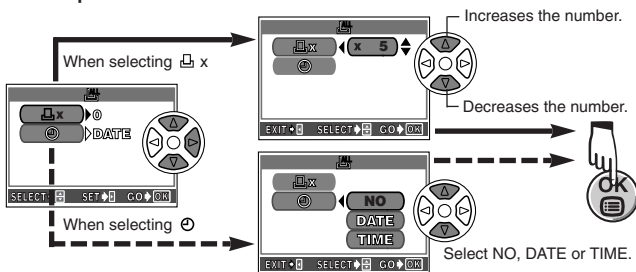
1 Set the mode dial to to display a still picture.

- Pictures with cannot be printed out. (The PRINT ORDER screen does not appear in step 2 below.)

2 Press the button to display the PRINT ORDER screen.



3 Select x (number of prints) or (date/time) by pressing Δ or ∇ , then press $\triangleright$ to set the numbers.



4 After all settings are complete, press .

- The screen exits from the Print Reserve mode.
- The Playback mode is restored and the Print Reserve mark and number of prints are displayed.
- You cannot set the number of prints to more than 10.

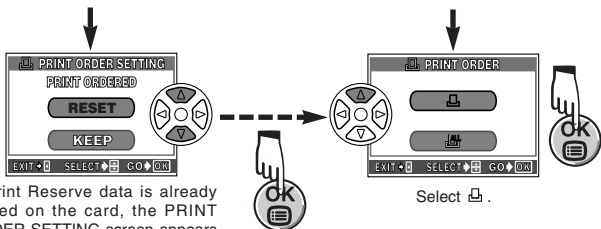
Single-frame print reserve



1 Display a still picture you want to print.

- Pictures with cannot be printed out. (The PRINT ORDER screen does not appear in step 2 below.)

2 Press the button to display the PRINT ORDER screen.



If Print Reserve data is already stored on the card, the PRINT ORDER SETTING screen appears giving you the choice of resetting the data or keeping it (P. 170).

3 Select a frame you want to print using single-frame playback (P. 130) or index display (P. 136).



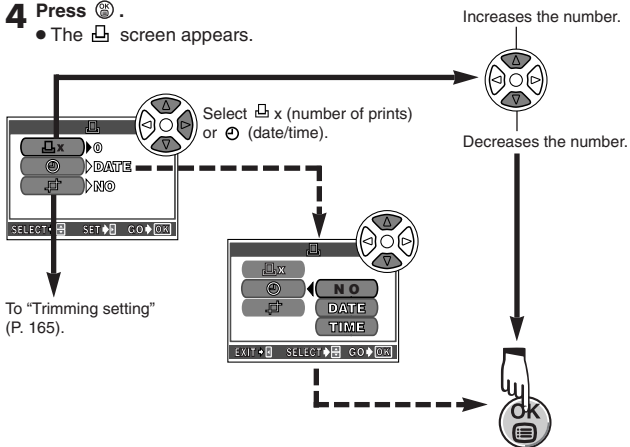
When selecting a frame for Print Reserve

Continued on next page

Single-frame print reserve (Cont.)

4 Press .

- The  screen appears.



5 To save the setting, press to return to the selection screen.

- To perform Print Reserve for more pictures, repeat steps 3 – 5.

6 Press the button twice.

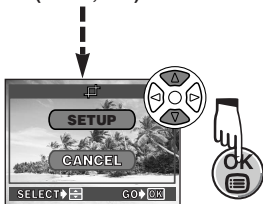
- The screen exits from the Print Reserve mode. The playback mode is restored.
- Make sure that the Print Reserve mark and number of prints are displayed.
- If the number of prints is set to 1, only the Print Reserve mark  is displayed.
- You cannot set the number of prints to more than 10.

Trimming setting

It is possible to enlarge a part of a recorded picture and to print out the enlarged section only.



- 1** Do steps 1 – 4 of “Single-frame print reserve”. In step 4, select  (P. 165, 166).



If  is not set on the desired picture, a screen appears giving you the choice of setting trimming (SETUP) or canceling trimming (CANCEL).

If  has been set already, the  screen appears. Select RESET and press .

- If you select OK or CANCEL, then press , the screen returns to the  screen, which is displayed in step 4 on P. 164.

To save the current trimming size → OK

To set a new trimming size → RESET

To cancel the trimming size → CANCEL

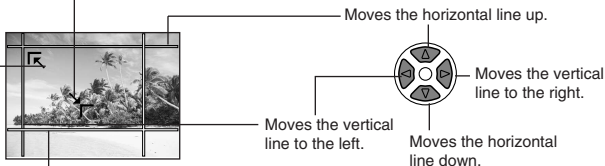


Trimming setting (Cont.)

2 The trim screen appears. Set the top left corner point of the desired picture. Move the vertical and horizontal lines using one of the following methods:

When the zoom lever is moved toward W, the intersection point (green) moves toward the top left corner of the display.

When the zoom lever is moved toward T, the intersection point (green) moves toward the bottom right corner of the display.



When the lever is moved, frame lines (white) appear on opposite sides from the trimming lines (green).

3 Press to save the top left corner point.

4 The screen changes to the one for setting the bottom right corner point. The methods for moving the vertical and horizontal lines are the same as described in step 2.

- To change the top left corner point, press the  button.

When the zoom lever is moved toward W, the intersection point (green) moves toward the top left corner of the display.

When the lever is moved, frame lines (white) appear on opposite sides from the trimming lines (green).



When the zoom lever is moved toward T, the intersection point (green) moves toward the bottom right corner of the display

Trimming setting (Cont.)

5 Press to save the bottom right corner point.

- The trimming size is displayed for approx. 1 second.



6 Select OK on the screen which is displayed in step 1, then press .

- The screen returns to the  screen.



7 To save the setting, press again to return to the selection screen.

8 Press the button twice.

- The screen exits from the Print Reserve mode to return to the playback mode.

!Note:

- The size of the printed picture varies depending on the printer setting. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, it is recommended to use the TIFF, SHQ or HQ mode.
- The vertical to horizontal ratio in the trimming screen can be changed using the Arrow pad, but if the zoom lever is used, the ratio is fixed at 4 : 3.

Resetting Print Reserve

Allows you to reset all Print Reserve settings for pictures stored on a card.

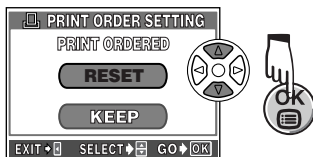


1 Display a still picture.

2 Press the button to display the **PRINT ORDER SETTING** screen.

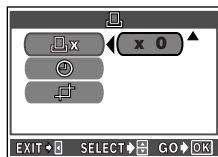
- If Print Reserve data is not stored on the card, the **RESET** and **KEEP** items do not appear on the screen.

3 Select **RESET**.



■ Remove selected pictures only

Select **KEEP**, then set the number of prints to 0 on the (single-frame print reserve) screen.



4 To save the setting, press to exit from the selection screen.

5 Press the button twice.



Chapter 10

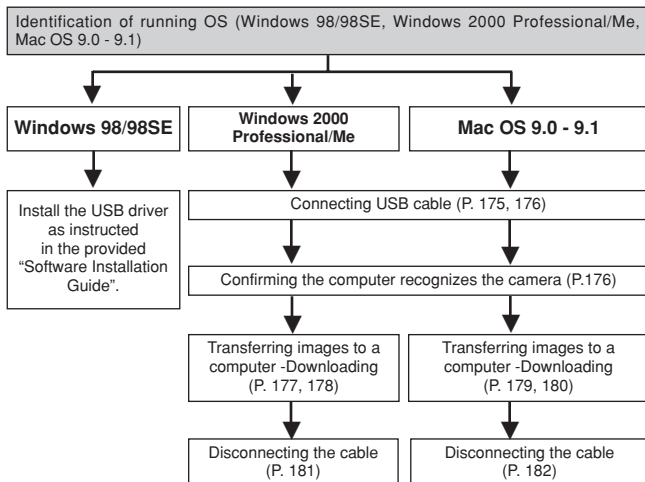
Transferring pictures to a computer

Pictures stored on the card can also be viewed on a computer.

This chapter shows you how to transfer pictures to a computer for viewing and image processing.

Connecting directly to a computer by cable

How to connect to a computer by USB cable depends on the Operating System (OS) your computer is running. Consult the manufacturer of your computer for details of its operating system.



* 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.

- Windows 95/NT 4.0
- Windows 98 upgraded from Windows 95
- Mac OS 8.6 or lower
(except Mac OS 8.6 equipped with USB MASS Storage Support 1.3.5 installed at the factory)
- A computer that uses a USB connector mounted on an extension card, etc.
- Data transfer is not guaranteed on a generic (non-name brand) PC system.

Connecting directly to a computer by cable (Cont.)

Note:

- If the camera is connected to the computer with the batteries contained in it, connecting the AC adapter after disconnecting it may cause the images on the card to be damaged or the computer to malfunction.
- When connecting the camera to a computer, make sure that the remaining battery power is sufficient. When connected (transmitting) to a computer, the camera does not enter the Sleep (power save) mode nor will the camera's power turn off automatically. If the battery power runs out while the computer is reading data from the card loaded in the camera, the camera stops operating and downloaded image data (file) will be lost. Use the AC adapter (optional) when downloading files.
- Make sure that the camera's power is off before connecting the AC adapter.
- Before removing the AC adapter, disconnect the camera from the computer, and make sure that the camera's power is off.
- To avoid computer malfunctions, do not turn off the camera or switch the camera's mode dial position when the camera is connected to a personal computer.
- If the camera is connected to the personal computer via a USB hub, operation may not be stable if there are any compatibility problems between the personal computer and the hub. If this is the case, do not use a hub and connect the camera directly to the personal computer.
- To play back movies, the personal computer should have QuickTime installed on it.

Checking your system

Before connecting the camera to your computer, take a few minutes to check some important information about your computer operating system. The first time you start up your computer with the camera connected, the computer may behave differently depending on what operating system you are using.

Windows

1 Double-click the My Computer icon on the desktop.

- Visually check the number and type of drive icons displayed in the My Computer window. If you have just connected the camera, you should see an icon for the camera labeled as a Removable Disk.



Continued on next page

Connecting directly to a computer by cable (Cont.)

2 Double-click the Control Panel icon.



3 Double-click the System icon.

- The screen on the lower-right side shows what is displayed for each system: Windows 2000, Windows 98/98SE and Windows Me.

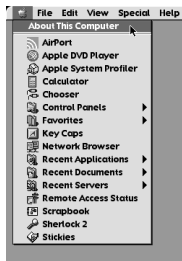
If you are using Windows 98/98SE, please refer to the "Software Installation Guide".



Connecting directly to a computer by cable (Cont.)

Macintosh

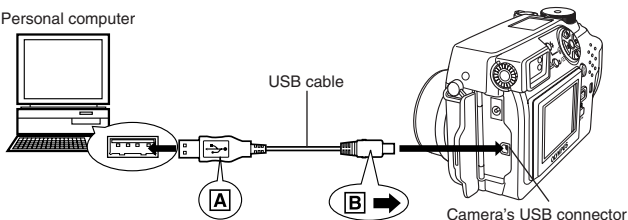
- 1 From the Apple menu, select **About This Computer**.
 - Confirm that the operating system is Mac OS9 (or 9.1).



How to connect

To connect the camera to a personal computer, use the USB cable (provided).

Personal computer



- 1 Turn off the camera's power, then insert the SmartMedia card containing image files to be transferred to the computer.

- 2 Open the camera's connector cover.

Continued on next page

Connecting directly to a computer by cable (Cont.)

- 3** Connect the end of the USB cable marked **A** to the USB connector on the personal computer.
- 4** Connect the end of the USB cable marked **B** to the USB connector on the camera.

5 Set the mode dial to .

- The computer recognizes the camera as a new device, then installs the USB driver. (The next time you connect, the message below will not appear. The computer will recognize the camera automatically.)



- **When using Windows 2000 Professional/Me:**

The USB driver will be automatically installed. Click on the “OK” button when a message appears saying that the installation is complete. The camera is displayed as “Removable Disk” in either “My Computer” or “Explorer”.

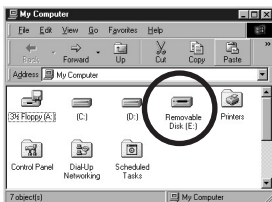
- **When using Windows 98/98SE:**

A window appears saying that the computer has started installing the USB driver. Click the “Cancel” button to close the window, turn off the camera and remove the USB cable from the camera. Then install the USB driver from the software CD (provided) as instructed in the provided “Software Installation Guide”.

- **When using Mac OS 9.0 – 9.1:**

The computer recognizes the camera automatically and an “Untitled” icon appears on the Desktop.

- 6** Following “Transferring images to a computer — Downloading” (P. 177), copy or move an image file on the personal computer.



Transferring images to a computer — Downloading

If the camera is connected correctly to a personal computer, the SmartMedia card is recognized as a drive (usually “Removable Disk”) on a personal computer. When using a Macintosh, the card is displayed as a new drive (Untitled) on the desktop.

Images stored on the card can be treated the same way as files on a floppy-disk or MO (magneto-optical disk) using software such as Windows Explorer. CAMEDIA Master also allows you to transfer image files stored on the card and edit them on your computer.

For detailed information about using CAMEDIA Master, refer to its instruction manual.

! **Note on using CAMEDIA Master 2.5:**

- When using CAMEDIA Master 2.5, click on “Removable Disk”, not “My Camera”. Under Mac OS, the file name is “Untitled”.

Windows

1 Referring to “How to connect” (P. 175), connect the camera to your computer.

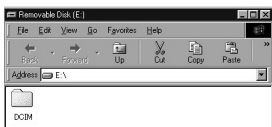
- The SmartMedia card loaded in the camera is recognized as a folder on the personal computer.

2 From the desktop, double-click the “My Computer” icon.

3 Double-click the “Removable Disk” icon.

- A window containing a folder named DCIM opens.

If the “Removable Disk” icon does not appear, the camera is not connected correctly. Go back to “How to connect” (P. 175) and connect it again.

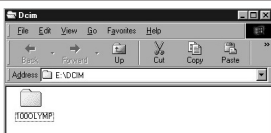


Continued on next page

Transferring images to a computer — Downloading (Cont.)

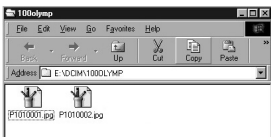
4 Double-click the DCIM folder.

- A window containing a folder named 100OLYMP opens.



5 Double-click the 100OLYMP folder.

- A new window opens, displaying your image files.



6 Copy (download) the image files to your computer using Explorer.

- When moving or copying a file, be sure to follow any instructions provided with your computer.
- To play back movies, the personal computer should have QuickTime installed on it.
- Install QuickTime from the provided software CD.

Transferring images to a computer — Downloading (Cont.)

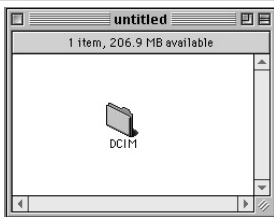
Macintosh

1 Connect the camera to your computer (see “How to connect” on P. 175).

- An “Untitled” icon appears on the desktop. If this icon does not appear, the camera is not connected correctly. Go back to “How to connect” (P. 175) and connect again.

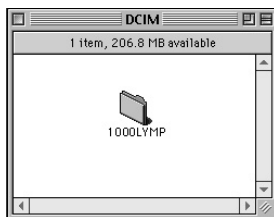
2 Double-click the “Untitled” icon.

- A window containing a folder named DCIM opens.



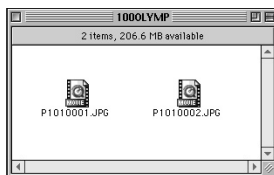
3 Double-click the DCIM folder.

- A window containing a folder named 100OLYMP opens.



4 Double-click the 100OLYMP folder.

- A new window opens, displaying your image files.



Continued on next page

Transferring images to a computer — Downloading (Cont.)

5 Copy (download) the image files to your computer using Mac OS.

- When moving or copying a file, be sure to follow any instructions provided with your computer.
- Install QuickTime from the CD-ROM provided with the camera.



TIPS

You can view images using: graphics applications that support JPEG (Paint Shop Pro, Photoshop, etc.); Internet browsers (Netscape Communicator, Microsoft Internet Explorer, etc.); CAMEDIA Master software; or other software. For details on using commercial graphics applications, refer to their instruction manuals. When using graphics applications, make sure that the images are completely transferred to the computer. The images (files) may be damaged if they are processed (e.g. rotated, etc.) by some graphics applications while still on the SmartMedia card.

!Note:

- Always disconnect the camera from the personal computer when doing any of the following:
 - Changing the SmartMedia card.
 - Switching the mode dial position.
 - Turning off the camera.

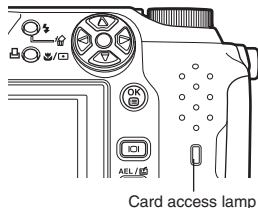
Transferring images to a computer — Downloading (Cont.)

Removing the USB cable

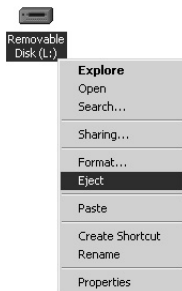
To avoid computer malfunctions, always do the following when removing the USB cable. (If a malfunction occurs, re-connect the USB cable after removing it and/or re-start your computer.)

Windows98/98SE

- 1 Make sure the camera's access lamp is off.



- 2 Select the Drive icon (Removable Disk) on "My Computer" and right-click to display the menu.
- 3 Select "Eject" and left-click.



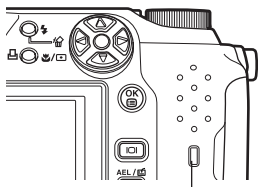
- 4 Remove the USB cable after confirming that the camera's access lamp is off.

Continued on next page

Transferring images to a computer — Downloading (Cont.)

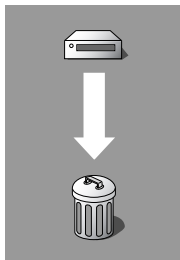
Macintosh

- 1 Make sure the camera's access lamp is off.



Card access lamp

- 2 Drag and drop the "Untitled" Drive icon onto the Trash on the desktop or select "Special" — "Eject" on the menu bar.



- 3 Remove the USB cable after confirming that the camera's access lamp is off.

Transferring images to a computer — Downloading (Cont.)

Windows 2000/Me

Make sure the camera's access lamp is off, then do either of the following to remove the USB cable:

(A) Click on the task bar.

- 1 Left-click on the “Unplug or Eject Hardware” icon (circled in the illustration below) on the task bar (at the lower right-hand side of your computer screen).
- 2 When a message appears saying that the driver has been stopped, left-click on the message.
- 3 When a message appears saying that the hardware can be ejected safely, click on the “OK” button.
- 4 Remove the USB cable.

(B) Double-click on the task bar.

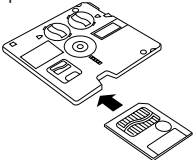
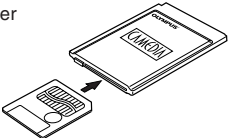
- 1 Double-click on the “Unplug or Eject Hardware” icon (circled in the illustration below) on the task bar (displayed at the bottom right on a personal computer).
- 2 When the display for ejecting the hardware appears, select the camera from the hardware device list, then click on the “Stop” button.
- 3 When a message appears saying that the hardware can be ejected safely, click on the “OK” button.
- 4 Remove the USB cable.

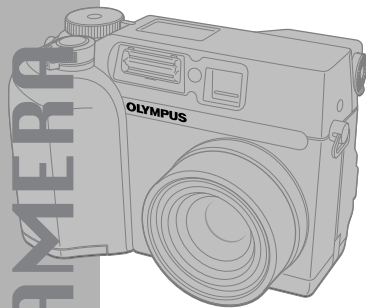


Saving directly from a SmartMedia removable memory card

Card adapters enable you to save images on your personal computer without having to connect your camera directly to your computer.

For the latest information on available adapters, consult our Customer Support Center or your local Olympus dealer.

Computer operating environment	Required devices
Personal computer equipped with a 3.5" floppy disk-drive	Floppy disk adapter 
Personal computer equipped with a PC card slot (PCMCIA) or an external PC card reader/writer	PC card adapter 
Personal computer equipped with a USB port	SmartMedia reader/writer
Note: ● Check for compatibility. Depending on the computer operating environment and/or the card memory capacity, the above devices may not function properly. ● For details on operating the above devices, read the instructions provided with the device.	



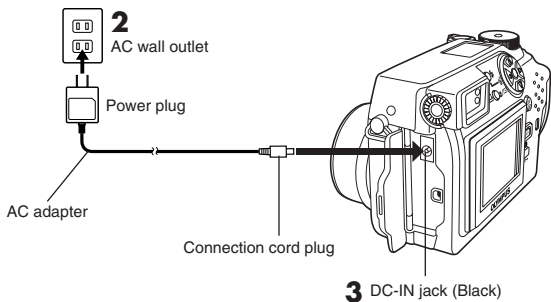
Chapter 11

Using optional accessories

AC adapter

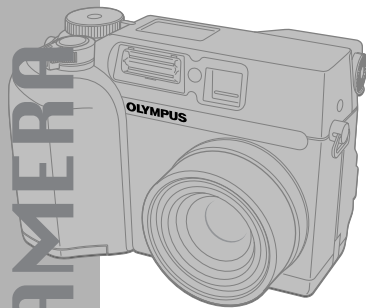
An optional Olympus CAMEDIA-brand AC adapter allows you to power your digital camera from a common AC wall outlet. Be sure to use the specified AC adapter (this camera uses the specified AC adapter, or the adapter designed for use with a camera that uses 4 AA (R6) type batteries). Use an AC adapter designed to operate on the AC voltage in the area the camera is being used. Consult your nearest Olympus dealer or Service center for details.

- 1** Turn off the camera.
- 2** Plug the AC adapter into a power outlet.
- 3** Open the jack cover and plug the connection cord into the DC-IN jack.
- 4** To disconnect, turn off the camera, and unplug the AC adapter first from the camera then from the outlet.



Note:

- If you shoot for a long time with the monitor turned on, noise may appear on pictures.
- Read carefully the "GENERAL PRECAUTIONS" included in the package and the AC adapter's instructions.
- Never connect or disconnect the AC adapter when the card access lamp is blinking.
- When the AC adapter is connected to the camera with the batteries contained in it, the power is supplied through the AC adapter, but the batteries are not charged.



Chapter 12

Miscellaneous

This chapter includes helpful information about troubleshooting camera operations, error codes, etc.

Troubleshooting

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
The camera does not work or function buttons do not respond.		
① The power is off.	① Set the mode dial to any position except OFF to turn on the camera.	P. 30
② The batteries are loaded incorrectly.	② Reload the batteries correctly.	P. 25
③ The batteries are exhausted.	③ Replace the batteries with new ones.	P. 25
④ The batteries are temporarily unable to function.	④ The batteries may be too cold. Keep them warm while using the camera.	—
⑤ It is connected to a personal computer.	⑤ The camera will not operate while it is connected to a personal computer.	P. 175
⑥ The camera is in the sleep mode.	⑥ Operate the camera (press the shutter button, turn the mode dial, etc.)	P. 30
No picture is taken when the shutter button is pressed.		
① The mode dial is set to  .	① Set the mode dial to any position except  .	P. 64
② The memory gauge is full.	② Wait until there is room in the memory gauge.	P. 83
③ The flash has not finished charging.	③ Release your finger from the shutter button. When the orange lamp stops blinking, try to shoot again.	P. 92
④ The card access lamp blinks after shooting in the  Movie mode.	④ The recorded movie image data is being written to the SmartMedia card. You can start shooting again when the card access lamp stops blinking.	P. 85
⑤ There is a problem with the card.	⑤ See the error code chart.	P. 196
⑥ The card is full.	⑥ Replace the card or delete unwanted pictures, etc.	P. 29, 141, 142

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
No picture is taken when the shutter button is pressed.		
⑦ The batteries ran out of power.	⑦ Replace the batteries with new ones.	P. 25
⑧ The control panel/monitor indications disappear, or only the battery check blinks.	⑧ Replace the batteries with new ones. (Do not open the battery compartment cover when the card access lamp is blinking.)	P. 25
⑨ A write-protect adhesive seal is placed on the card or there is no card in the camera.	⑨ Insert a new card in the camera.	P. 29
The date recorded with the image data is wrong.		
① The date is not set.	① Set the date. (The clock adjustment is not factory-preset.)	P. 32
② The camera has been left for approx. 1 hour with the batteries removed and the date setting is canceled.	② Set the date again.	P. 32
The flash does not fire.		
① The flash is set to the off mode.	① Press the  button to select a flash mode other than  .	P. 88–91
② The subject is in bright light.	② Set the flash to Fill-In mode.	P. 88
③ Sequential shooting and Auto bracketing BKT are on.	③ Set DRIVE to  in the menus.	P. 98
④ You are recording movies.	④ Set the shooting mode to any mode other than the  Movie mode.	P. 64

Troubleshooting (Cont.)

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
The flash does not fire.		
⑤ Panorama shooting is performed. ⑥ FUNCTION is set to BLACK/WHITE BOARD.	⑤ Set PANORAMA to OFF in the menus. ⑥ Set FUNCTION to OFF in the menus.	P. 111 P. 109
Pictures you have already taken do not appear on the monitor.		
① The camera is in the shooting mode. ② There is no picture on the SmartMedia card. ③ There is a problem with the card.	① Set the mode dial to  . ② NO PICTURE appears on the monitor. Record pictures. ③ See the error code chart.	P. 130 P. 38, 39, 197 P. 196
The viewfinder display is not clear.		
① The diopter is not adjusted properly.	① Adjust the diopter again.	P. 35
The monitor is not clear.		
① The brightness is not adjusted properly. ② The monitor is exposed to direct sunlight.	① Adjust the brightness. ② Block the sunlight or move out of the sunlight.	P. 83
Picture rotate, Picture protect, Single-frame erase, All-frame erase, Print reserve and Card formatting cannot be performed.		
① A write-protect seal is affixed to the SmartMedia card.	① Use the card after peeling off the seal. (Do not reuse the write protect seal.)	P. 28

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
When the camera is connected to a computer, an error message appears while data is being transferred to the computer.		
① The cable is not plugged in correctly. ② The power is off. ③ The batteries are exhausted. ④ The USB driver is not installed properly.	❶ Connect the cable correctly. ❷ Set the mode dial to  . ❸ Replace the batteries with new ones or use the optional AC adapter. ❹ Try installing the USB driver again. Confirm that the computer recognizes the camera.	P. 175 P. 176 P. 25, 186 P. 175–176
The subject's eyes appear red in pictures recorded with the flash.		
① The flash is in the auto-flash mode.	❶ This “red-eye phenomenon” occurs with all cameras when a flash is used. (It is caused by light from the flash reflecting off the retina at the back of the eye. Red-eye varies depending on the individual and the shooting conditions such as ambient lighting. Use of the Red-eye reduction flash mode significantly reduces this phenomenon.)	P. 88

Troubleshooting (Cont.)

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
The picture is out of focus.		
① The camera moved when the shutter button was pressed.	① Hold the camera correctly, and press the shutter button.	P. 35, 71
② The AF target mark was not on the subject.	② Position the AF target mark on the subject, or use the focus lock.	P. 73
③ The lens is dirty.	③ Clean the lens with a soft dry cloth.	P. 195
④ The subject was too close.	④ Set the camera to the macro mode. (The shooting distance varies according to the zoom setting.)	P. 107
⑤ The shutter button was pressed while standing in front of the camera in the self-timer mode.	⑤ Press the shutter button while looking into the viewfinder, not while standing in front of the camera.	P. 152
⑥ The manual focus was used with the wrong focal range.	⑥ Use the right manual focus for the distance.	P. 77
The picture is too bright.		
① The flash mode was set to the Fill-in flash mode.	① Select a flash mode other than the Fill-in flash mode.	P. 88–91
② The subject was excessively illuminated.	② Adjust the exposure compensation or change the camera position toward the subject.	P. 104, 120

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
The picture is too dark.		
① The flash was blocked by a finger.	❶ Hold the camera correctly, keeping your fingers away from the flash.	P. 35
② The subject was out of the working range of the flash.	❷ Shoot within the flash working range.	P. 92
③ The flash mode was set to the Off mode.	❸ Press the  button to select a flash mode other than Off.	P. 88–91
④ The subject was too small and was backlit.	❹ Set the flash to Fill-In mode. Or, use the spot metering mode.	P. 88, 102
⑤ The sequential mode was used.	❺ Higher shutter speeds are used when the sequential mode is selected which may result in pictures that are darker than usual.	P. 98
The colors of pictures taken indoors look unnatural.		
① The lighting colors affected the picture.	❶ Adjust the white balance so that it matches the lighting condition.	P. 122–125
② White tones are not represented.	❷ Include a white subject in the picture composition or shoot the picture with the flash mode set to Fill-in.	P. 88
③ The white balance setting is wrong.	❸ Adjust the white balance.	P. 122–125
The picture has obscured edge(s).		
① The lens was partly blocked by a finger or the strap.	❶ Hold the camera correctly, keeping your fingers and the strap away from the lens.	P. 35

Troubleshooting (Cont.)

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE
There is an unusual halo effect on the picture.		
① This may occur because of the influence of ultraviolet rays specifically when you shoot a subject under the condition where there is a big difference in brightness among portions of the subject such as sunbeams shining through branches of trees, lights coming through windows in night scene or lights reflected on metals.	① The use of a UV filter may affect the total color balance of the picture. Therefore it is recommended to use a UV filter only under the condition described on the left. ② Retouch the picture using photo-retouching software such as Photoshop and Paint Shop Pro after transferring it to the computer. Using the software, you can sample the unnaturally colored portion with a color-sampling tool such as the eyedropper tool, specify the color range, and then replace the color with an appropriate one or adjust color saturation. For details information about retouching, refer to the instruction manual of the software.	

User maintenance

After use

Be sure to turn off the power and attach the lens cap to the lens.

Cleaning the camera

1 Turn off the camera. (P. 30)

2 Remove the batteries (P. 25). When using the AC adapter, unplug the AC adapter from the camera and the AC outlet.

3 Exterior

Wipe gently with a soft cloth. To wipe off heavy dirt, soak the cloth in diluted mild soap and wring it well. Wipe off the camera with the damp cloth and then dry it with a dry cloth. If you have used your camera at the beach, use a cloth dampened with fresh water.

Monitor and viewfinder

Wipe gently with a soft cloth.

Lens

Blow dust off the lens with a blower brush (commercially available), then wipe gently with lens cleaning paper (commercially available). When storing the camera for a long period, attach the lens cap to the lens.

SmartMedia card

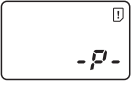
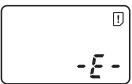
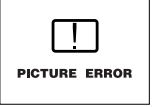
Wipe gently with a soft cloth.

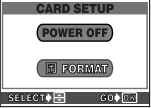
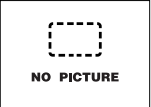
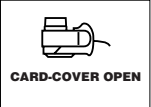
!Note:

- Do not use a strong solvent such as benzine or alcohol, or chemically treated cloth.
- Cleaning should be done only after the battery pack has been removed or other power supply units have been disconnected.
- Mold may form on the lens surface if the lens is left dirty.

Error codes

If there is a problem with your camera, a blinking error code will appear.

Control panel	Monitor	Possible causes	Corrective action
		A SmartMedia card is not inserted, or it cannot be recognized.	Insert the card correctly. Insert a different card.
		No more pictures can be taken.	Replace the card or erase unneeded pictures.
		Writing to the card is prohibited.	If you are taking pictures, remove the write-protect seal.
		Cannot record, play back or erase pictures in this card.	If the card is dirty, wipe it with a clean tissue and insert it again. If the problem is still not corrected, this card cannot be used.
Empty screen		The recorded image cannot be played back with this camera.	Load the image using personal computer image processing software. If that cannot be done, the image file is partially damaged.

Control panel	Monitor	Possible causes	Corrective action
		The SmartMedia card is not formatted.	Format the card.
		There are no pictures on the card, so there is nothing to play back.	Insert a card that contains images.
		There is no empty space on the card, so it cannot record new information including print data.	Replace the card or erase unneeded pictures.
		The card cover is open.	Close the card cover.

Specifications

Product type	Digital camera (for shooting and displaying)
Recording System	
Still	Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), TIFF (non-compression), Digital Print Order Format (DPOF)
Movie	QuickTime Motion JPEG support
Memory	3V (3.3V) SmartMedia, 4 MB - 128 MB (all cards except 2 MB)
No. of storable pictures (When a 16 MB card is used)	1 frame (TIFF: 2048x1536) Approx. 8 frames (SHQ: 2048x1536) Approx. 21 frames (HQ: 2048x1536) Approx. 49 frames (SQ: 1280x960 NORMAL) Approx. 165 frames (SQ: 640x480 NORMAL)
No. of Effective pixels	3,240,000 pixels
Image pickup device	1/1.8" CCD solid-state image pickup device 3,340,000 pixels (gross)
Recording image	2048x1536 pixels (TIFF/SHQ/HQ) 1600x1200 pixels (TIFF/SQ) 1280x960 pixels (TIFF/SQ) 1024x768 pixels (TIFF/SQ) 640x480 pixels (TIFF/SQ)
Lens	Olympus lens 6.5 mm to 19.5 mm, F2.8, 8 elements in 6 groups (equivalent to 32 mm to 96 mm lens on 35 mm camera), aspherical glass
Photometric system	Digital ESP metering, Spot metering system
Aperture	W : F2.8 to F11.0 T : F2.8 to F11.0
Shutter speed	Used with mechanical shutter
Still	4 to 1/800 sec. (M mode: 16 to 1/800 sec.; P/A mode: 1 to 1/800 sec.)
Movie	1/30 to 1/10000 sec.

Specifications (Cont.)

Viewfinder	Optical real image viewfinder
Monitor	1.8" (4.5 cm) TFT color LCD display, approx. 123,000 pixels
Battery charging time for flash	Approx. 6 sec. (at normal temperature with new batteries)
Autofocus	TTL system autofocus, Spot AF, Contrast detection system, Focusing range: 0.2 m to ∞ (8 inches to ∞)
Outer connector	DC-IN jack, USB connector (USB 1.0 compatible)
Automatic calendar system	Up to 2031
Operating environment	
Temperature	0°C to 40°C (32°F to 104°F) (operation) -20°C to 60°C (-4°F to 140°F) (storage)
Humidity	30% to 90% (operation) 10% to 90% (storage)
Power supply	For batteries, use 2 CR-V3 lithium battery packs, or 4 AA (R6) NiMH batteries, NiCd batteries, Alkaline batteries or lithium batteries. Manganese (zinc-carbon) batteries cannot be used. AC adapter (optional)
Dimensions (W)x(H)x(D)	110 mm x 76 mm x 70 mm (4.3"x3.0"x2.8")
Weight	300 g (0.66 lb) (without batteries/card)

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

Glossary of terms

A (Aperture Priority) Mode

You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

AE (Automatic Exposure)

The camera's built-in exposure meter automatically sets the exposure. The 3 AE modes available on this camera are P mode, in which the camera selects both the aperture and shutter speed; A mode, in which the user selects the aperture and the camera sets the shutter speed; and S mode, in which the user selects the shutter speed and the camera sets the aperture. In M mode, the user selects both the aperture and the shutter speed.

Aperture

This adjusts the amount of light that passes through the lens. Lower values allow more light to pass, while higher values reduce the amount of light. When you set the lowest aperture value for a lens, the aperture is at its widest. Conversely, the highest aperture value gives the narrowest aperture.

Backlight

A light source in the Monitor that lets it be seen more easily by lighting from behind.

CCD (Charge-coupled Device)

This converts light passing through the lens into electrical signals. On this camera, light is picked up at 3.34 million points and converted into RGB signals to build a single image.

Contrast Detection Method

This is used to measure the distance to the subject. The camera determines if the image is focused on by the level of contrast in the subject.

Conventional Photograph

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography.) This system is in contrast to still video and digital photography.

DCF (Design rule for Camera File system)

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

Digital ESP (Electro-Selective Pattern) light metering

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

Glossary of terms (Cont.)

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 automatically 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 time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)

A compression format for color still images. Photographs (images) shot using this camera are recorded onto the SmartMedia card in JPEG format when the Record mode is set to SHQ, HQ or 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.

Glossary of terms (Cont.)

M (Manual) Mode

The user sets both the aperture and shutter speed.

My (Image) Mode

This mode allows you to register your original shooting mode where you can use variable menu functions set according to your preference.

P (Program) Mode

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

Pixels

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require a large number of pixels.

S (Shutter Priority) Mode

Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

S-Prg (Scene Program) Mode

An extension of the Program AE mode. The S-Prg mode allows you to get clear pictures easily regardless of the shooting condition by simply selecting an appropriate shooting mode from the five preset shooting modes ( Portrait,  Sports,  Landscape,  Night-scene and  Movie modes).

TFT (Thin-Film Transistor) Color Monitor

A color Monitor constructed using thin-film technology.

TIFF (Tagged Image File Format)

An uncompressed format used for saving highly-detailed black & white or color image data. TIFF image files can be handled by software programs for scanners and graphics applications.

TTL (Through-The-Lens) System

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

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