# PENTAX™

Digital Camera

# Optio Z10

## **Operating Manual**

SDHC™ PictBridge HI-SPEED USB CERTIFIED
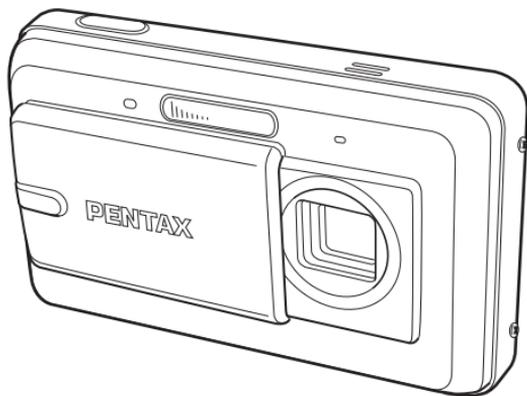
To ensure the best performance from your camera, please read the Operating Manual before using the camera.

Thank you for purchasing this PENTAX Digital Camera.
Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera's capabilities.

**Regarding copyrights**

Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

**To users of this camera**

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.

**Regarding trademarks**

- PENTAX and Optio are trademarks of PENTAX Corporation.
- SDHC logo ( ) is trademark.
- All other brands or product names are trademarks or registered trademarks of their respective companies.

This product supports PRINT Image Matching III, PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.

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PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation.

**Regarding PictBridge**

PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations.

- There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different form the actual product.

**Regarding Product Registration**

In order to serve you better, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website. Thank you for your cooperation.
Refer to the PC Connection Manual (bottom right of the front side) for more information.

# USING YOUR CAMERA SAFELY

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

⚠️ **Warning** This symbol indicates that violating this item could cause serious personal injuries.

⚠️ **Caution** This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses.

### About the Camera

## ⚠️ Warning

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart.
- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed.
- Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks.
- Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the battery and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock.

## ⚠ **Caution**

- Never try to disassemble or short the battery. Also, do not dispose of the battery in a fire, or leave the battery in a high-temperature location (above 140°F/60°C). The battery could heat up, catch fire, or explode.
- Do not charge any batteries other than rechargeable lithium-ion battery D-LI72. The battery could explode or catch fire.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring.
- If any battery leakage at all should come in contact with your eyes, it may cause a loss of sight. Flush your eyes with clean water and get medical attention immediately. Do not rub them.
- If any battery leakage at all should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water.
- Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth.

### About the Battery Charger and the AC Adapter

## ⚠ **Warning**

- Do not use the product at a voltage other than the specified voltage. Use with a power source or voltage other than that designed can cause a fire or electrical shock. The specified voltage is 100-240V AC.
- Do not disassemble or modify the product. This can cause a fire or electrical shock.
- If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue using and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.
- If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.

- If thunder storm should be present during use of the battery charger or AC adapter, unplug the power cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire or electrical shock.
- Wipe off the plug of the power cord if it should become covered with dust. This can cause a fire.

## ⚠ Caution

- Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center.
- Do not short or touch the output terminals of the product while it is still plugged in.
- Do not plug in the AC plug cord with wet hands. This can cause an electrical shock.
- Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction.
- Do not use the battery charger to charge batteries other than rechargeable lithium-ion battery D-LI72. This can cause overheating or malfunctions.
- To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent.

## Care to be Taken During Handling

- When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc.
- The lens on this camera is not interchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- This camera is not waterproof. Do not use this camera where it might come in contact with rain, water, or any other liquid.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove the camera from its case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure as this may cause damage, malfunction, or a loss in waterproof performance. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the camera is subjected to substantial vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
- Periodic checks are recommended every 1 to 2 years in order to maintain high performance.

- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- Refer to "Precautions When Using an SD Memory Card" (p.28) regarding the SD Memory Card.
- Please note that formatting an SD memory card or built-in memory will delete all data; however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera's memory at your own risk.
- Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction.
- Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the LCD monitor.
- When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.
- The AC plug cord supplied with the camera is for exclusive use with the battery charger D-BC72. Do not use it with any other equipment.

# Contents

In this manual, the method for operating the four-way controller is shown in illustrations, such as in the one below.
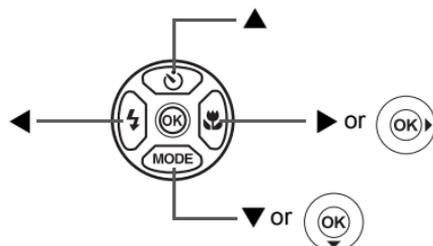


The meanings of the symbols used in this operating manual are explained below.

| | |
|---|---|
| ☞ | indicates the reference page number for an explanation of the related operation. |
| memo | indicates information that is useful to know. |
| Caution | indicates precautions to be taken when operating the camera. |
| ▲ mode | This is the mode for capturing still pictures and recording movies and sound files. In this manual, the mode for taking still pictures is referred to as the "Still Picture Capture Mode", the mode for recording movies is referred to as the "🎥 mode" and the mode for recording sound files is referred to as the "🎤 mode". |
| ▶ mode | This is the mode for viewing still pictures and playing back movies and sound files. |

## Composition of the Operating Manual

This operating manual contains the following chapters.

**1 Getting Started** ————————————————————————————

This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions.

**2 Quick Start** ————————————————————————————————

This chapter explains the simplest way to take pictures and play back images. Use it if you want to start taking pictures or playing back images straightaway.

**3 Common Operations** ———————————————————————————

This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective chapters below.

**4 Taking Pictures** ————————————————————————————————

This chapter explains the various ways of capturing images and how to set the relevant functions.

**5 Playing Back and Deleting Images** —————————————————

This chapter explains how to view still pictures and movies on the camera or on a TV and how to delete images from the camera.

**6 Editing and Printing Images** ——————————————————————

This chapter explains the various ways of printing still pictures and how to edit images with the camera. For information on transferring images to a PC and installing ACDSee for PENTAX, see the supplied "PC Connection Manual". For details on editing and printing images on a PC, see the Help section in the ACDSee for PENTAX software.

**7 Recording and Playing Back Sound** —————————————————

This chapter explains how to record sound files or add sound (a voice memo) to an image, and how to play back sound files.

**8 Settings** ————————————————————————————————————————

This chapter explains how to set the camera-related functions.

**9 Appendix** —————————————————————————————————————————

This section deals with troubleshooting and lists the optional accessories.

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**11**

# Camera Features

In addition to basic picture-taking, the Optio Z10 has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanations of camera operations, it will enable you to enjoy your camera to the full.

## Advanced Movie Recording and Picture Taking Functions

The Optio Z10 has an anti-shake function to prevent camera shake during movie recording. (p.113) You can also take pictures while recording a movie. (p.108)

> ● **For recording the action of sporting events as a movie while capturing the winning shot in a picture.**

## Add Fun Frames to Your Pictures!
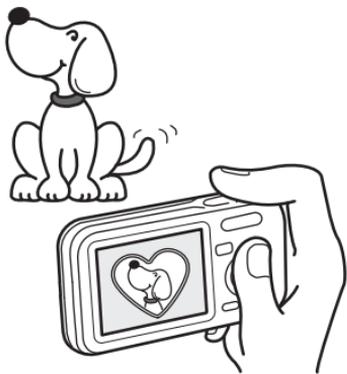
With the Optio Z10, you can add a fun frame when taking a picture of a child or your pet, for example. (p.67) You can also add frames to pictures you have taken. Adjust the position of the subject in the picture or reduce or enlarge the picture size to match the frame shape and size. Now you no longer have to worry about the subject not being aligned in the frame. (p.144)

> ● **For decorating your pictures with a frame.**

## Easy-to-Navigate Capture and Playback Functions!



The user-friendly design of the Optio Z10 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select Shooting mode (p.53) and choose the optimal settings for the situation, or Playback mode (p.116, p.135) and enjoy the various playback and editing functions. A guide on the LCD monitor lets you check the functions available in each mode and how to use them. (p.53, p.60)

- **A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette for a few seconds after each mode is selected. (p.53, p.60)**
- **Use the Green Mode to take pictures easily using standard settings. (p.64)**

## Display Images and Sound Files in Calendar Format!

With the Optio Z10, you can display recorded images and sound files by date in calendar format. (p.118) This lets you quickly find the image or sound file you want to play back.

## Perfect Size for Carrying Around With You!

With its sporty and sharp design and excellent portability, the Optio Z10 is just right to slip into a pocket of your bag or hang round your neck, so you always have it with you, like your cell phone. It has a useful clock function, "Clock Mode" for telling the time too. (p.182)

## Enjoy Playback and Editing Functions Without a Computer!

The Optio Z10 lets you play back and edit images without having to connect the camera to your computer and transfer the images first. The camera is all you need to take and edit still pictures and movies. (p.135) And no more worries about accidentally deleting images, because now, with the Optio Z10, you can recover them again. (p.132)
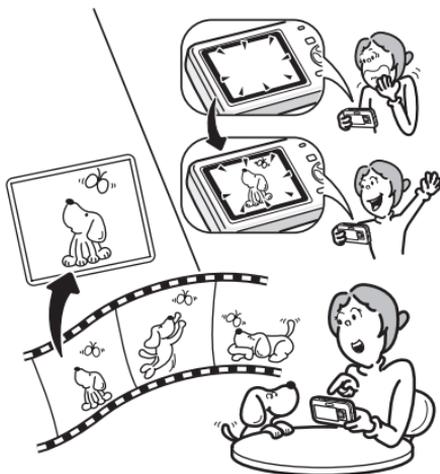
- **Resize (p.135) , Cropping (p.137) , and Red-eye Compensation (p.143) can be used, while the image is displayed in Playback mode.**
- **You can divide a movie into two, stitch two movies together or select a frame from a movie to save as a still picture. (p.146)**

# Checking the Contents of the Package

Camera
Optio Z10
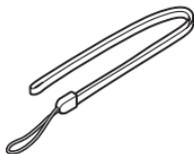
Strap
O-ST20 (*)

Software (CD-ROM)
S-SW70
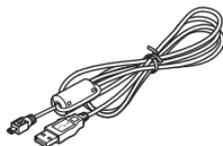
USB cable
I-USB7 (*)
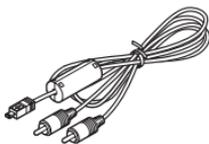
AV cable
I-AVC7 (*)

Rechargeable lithium-ion
battery D-LI72(*)
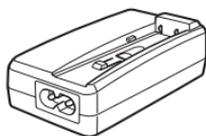
Battery charger
D-BC72 (*)
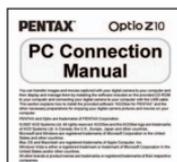
AC plug cord (*)

PC Connection Manual
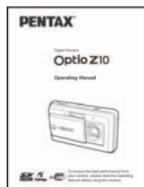
Operating Manual
(this manual)

Quick Guide

Items marked with an asterisk (*) are also available as optional accessories.
The battery charger and AC plug cord are only sold as a set (Battery Charger Kit K-BC72).
For other optional accessories, refer to "Optional Accessories" (p.190).

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## Names of Parts

**Front**



Shutter release button
Self timer lamp (red)
Speaker
Microphone
Lens
Flash
Lens cover/power switch

**Back**



LCD monitor
Power indicator
Tripod socket
DC input terminal
PC/AV terminal
Terminal cover
Terminal cover
Card cover
Battery cover
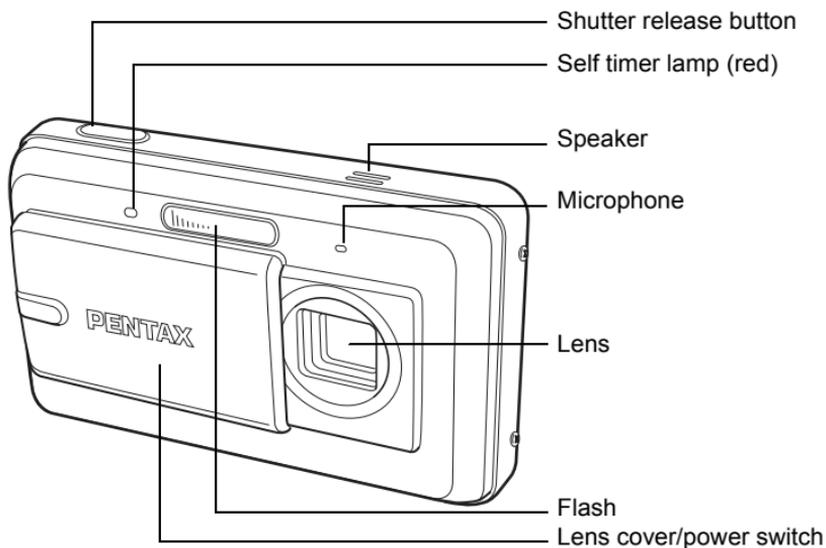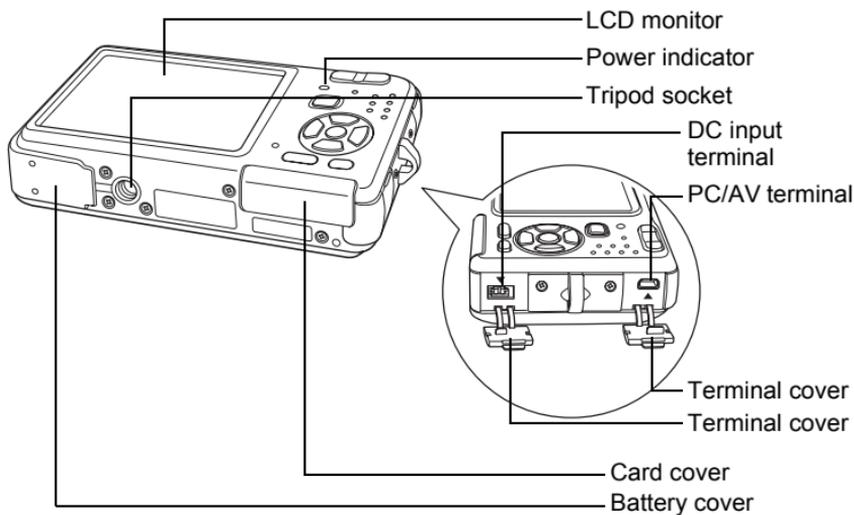
## Names of Operating Parts



Lens cover/power switch



Shutter release button

Zoom/♦♦♦/ ♦ /⊠/Q button

▶ button

Four-way controller

**OK**/**DISPLAY** button

Green/ 📷 button

**MENU** button
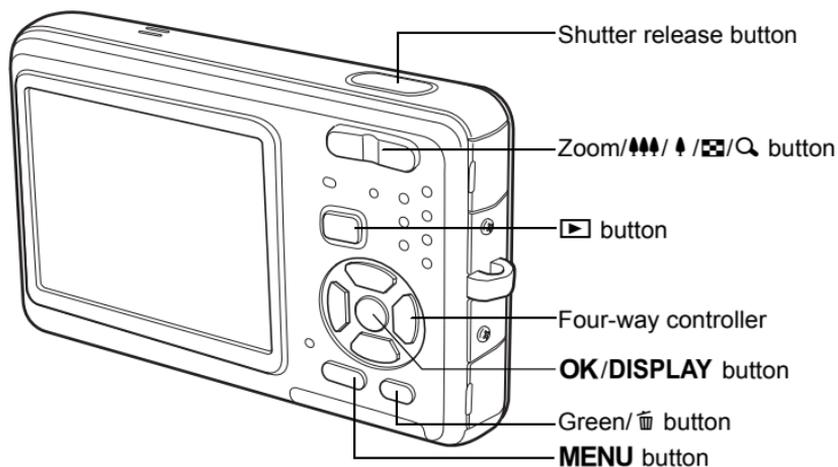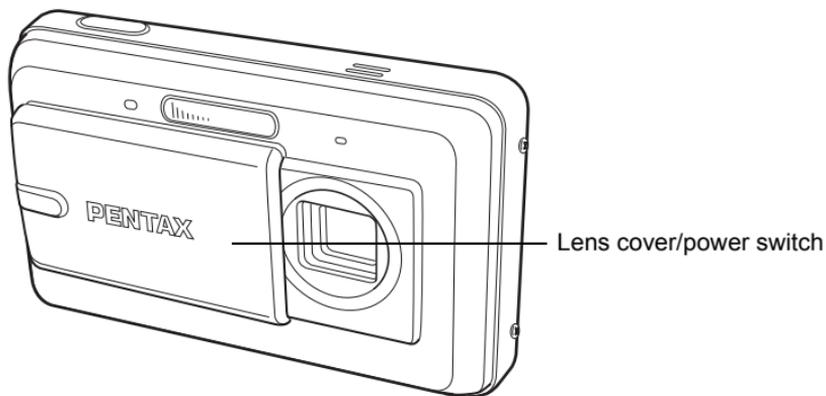
memo    Refer to "Understanding the Button Functions" (p.43 - p.47) for an explanation of the function of each button.

## Monitor Indications

**Normal Display in Still Picture Capture Mode**
The display shows information such as the shooting conditions.
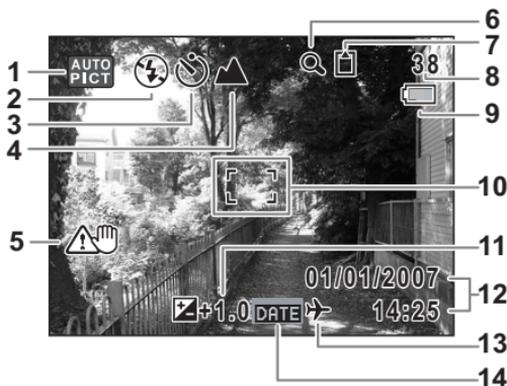


1. Shooting mode (p.53)
2. Flash mode (p.87)
3. Drive mode (p.74, p.75)
4. Focus mode (p.85)
5. Camera shake warning (p.83)
6. Digital zoom icon (p.76)
   Intelligent zoom icon (p.76)
7. Memory status (p.32)
   - 📷 : Built-in memory (without card)
   - ☐ : SD Memory Card
   - ☒ : Card is write-protected
8. Remaining image storage capacity
9. Battery indicator (p.24)
10. Focus frame (p.39)
11. EV compensation (p.82)
12. Date and time (p.36)
13. World time setting (p.170)
14. Date Imprint icon (p.104)

**Histogram + Info Display in Still Picture Capture Mode**



1. Bright portion (blinks red)
2. Dark portion (blinks yellow)
3. Shutter speed
4. Aperture
5. Recorded pixels (p.89)
6. Quality (p.91)
7. White balance (p.92)
8. AE Metering (p.94)
9. ISO sensitivity (p.96)
10. Histogram (p.84)

**About the Bright and Dark Portions**
When there is an area in the frame that is so bright it appears white, the indicated area blinks red as a warning. Similarly, when there is an area that is so dark it appears black, the indicated area blinks yellow as a warning.

**Full Display in Still Picture Playback Mode**
**(All of the display items are displayed here for explanatory purposes.)**
The display shows information such as the shooting conditions. A1 to A11 appear when [Normal Display] or [Histogram + Info] is selected. B1 to B10 only appear when [Histogram + Info] is selected. (p.120)

**A1** Playback mode (p.60)
- ▶ : Still Picture Playback Mode (p.59)
- 《♨》 : Digital SR (p.121)

**A2** Folder number (p.173)

**A3** File number

**A4** Protect icon (p.133)

**A5** Voice memo icon (p.162)

**A6** Battery indicator (p.24)

**A7** Volume icon (p.162)

**A8** Memory status (p.32)
- 📼 : Built-in memory (without card)
- ⓘ : SD Memory Card
- 📠 : Card is write-protected

**A9** Captured date and time (p.36)

**A10** Four-way controller guide

**A11** Key lock icon (p.65)

**B1** Bright portion (blinks red) (p.19)

**B2** Recorded pixels (p.89)

**B3** Quality (p.91)

**B4** White balance (p.92)

**B5** AE Metering (p.94)

**B6** ISO sensitivity (p.96)

**B7** Dark portion (blinks yellow) (p.19)

**B8** Shutter speed

**B9** Aperture

**B10** Histogram (p.84)

In Normal Display, A6 and A9 disappear if no operation is performed in two seconds.

**Guide Indications**

A guide to available button operations appears on the LCD monitor during operation.

The buttons are indicated as shown below.

| | | | | |
|---|---|---|---|---|
| Four-way controller (▲) | ▲ | Zoom button | 🔍 | |
| Four-way controller (▼) | ▼ | **OK**/**DISPLAY** button | OK | |
| Four-way controller (◄) | ◄ | Shutter release button | SHUTTER | |
| Four-way controller (►) | ► | Green/ 🗑 button | ●, 🗑 | |
| **MENU** button | MENU | | | |

Attach the strap (O-ST20) supplied with the camera.
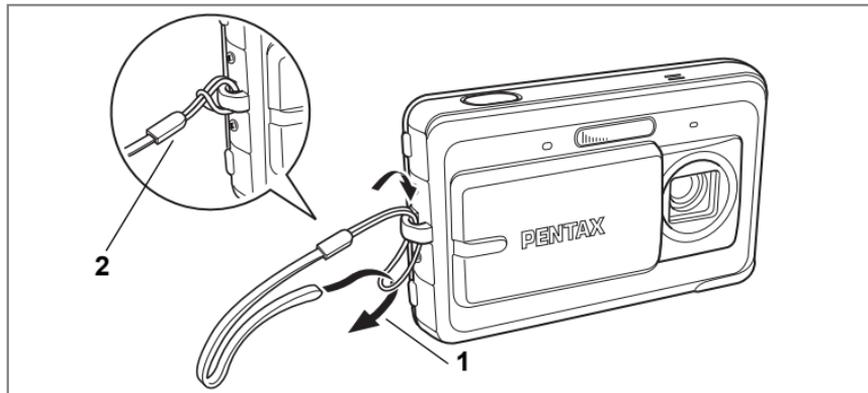


**1** **Pass the narrow end of the strap through the strap lug.**
**2** **Pass the other end of the strap through the loop and pull tight.**

# Powering the Camera

Charging indicator
While charging:
Lights red
Charging
finished:
Turns off

Battery charger

Battery

AC plug cord

To power
outlet

**1**

**3**

**2**
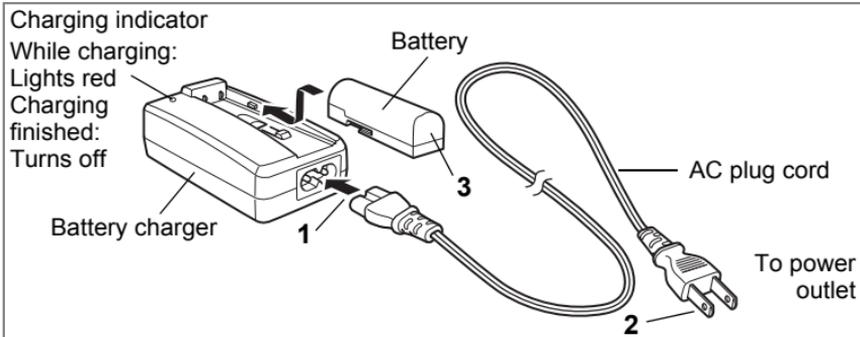
## Charging the Battery

Use the battery charger to charge the battery before using it in the camera for the first time or after a long period of non-use, or when the [Battery depleted] message appears.

Note: AC plug cord "Listed, Type SPT-2 or NISPT-2, 18/2 flexible cord, rated 125 V, 7A, minimum 6ft (1.8m)"

**1  Connect the AC plug cord to the battery charger D-BC72.**

**2  Plug the AC plug cord into the power outlet.**

**3  Place the battery in the charger so that the PENTAX logo is facing down.**

The charging indicator lights red while the battery is charging and turns off when charging is finished.

**4  Remove the battery from the battery charger when charging is finished.**

memo
- The time required to fully charge the battery is about 90 minutes (max.). The appropriate ambient temperature for charging the battery is 0°C to 40°C (32°F to 104°F). (The charging time may vary depending on the ambient temperature and charging conditions.)
- The battery has reached the end of its service life when it starts to run down soon after being charged. Replace with a new battery.

Caution
- Do not use the battery charger to charge batteries other than the rechargeable lithium-ion battery D-LI72, as the charger may overheat or be damaged.
- If the battery is inserted correctly but the charging indicator fails to light, the battery may be faulty. Replace with a new battery.

Battery cover
Battery
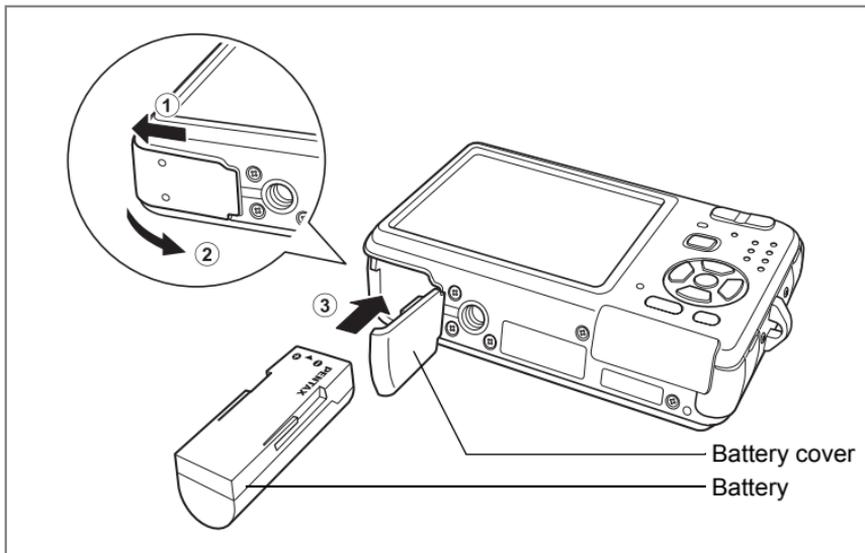
## Installing the Battery

Use the battery that is provided with the camera. Charge the battery before using it in the camera for the first time.

**1** **Open the battery cover.**
When you slide the battery cover out, it springs open.

**2** **Insert the side of the battery with the PENTAX logo pointing toward the back of the camera.**

**3** **Close the battery cover.**

**Removing the Battery**

**1** **Open the battery cover.**

**2** **Slide the battery out.**

Caution
- This camera uses a rechargeable lithium-ion battery D-LI72. Use of any other type of battery may damage the camera and cause malfunction.
- Insert the battery correctly. If the battery is incorrectly oriented, malfunction may result.
- Do not remove the battery while the camera is turned on.
- If you do not intend to use the camera for a long time, remove the battery.
- The date and time may be returned to the default setting if the camera is left without the battery for a long time.

• **Image Storage Capacity, Movie Recording Time, Sound Recording Time, and Playback Time**
**(at 23°C with the LCD monitor on and the battery fully charged)**

| Image Storage Capacity[*1] (flash used for 50% of shots) | Movie Recording Time[*2] | Sound Recording Time[*2] | Playback Time[*2] |
|---|---|---|---|
| 180 pictures | 65 min. | 190 min. | 150 min. |

*1: Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions.
*2: According to the result of in-house testing.

memo
- In general, battery performance may temporarily deteriorate as the temperature decreases.
- Be sure to take a spare battery with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures.

• **Battery Level Indicator**
You can check the battery level by the ▭ indicator on the LCD monitor.

| Screen Display | Battery Status |
|---|---|
| ▭ (green) | Adequate power remains. |
| ▭ (green) | Battery is running low. |
| ▭ (yellow) | Battery is running very low. |
| ▭ (red) | Battery is exhausted. |
| [Battery depleted] | The camera will turn off after this message appears. |
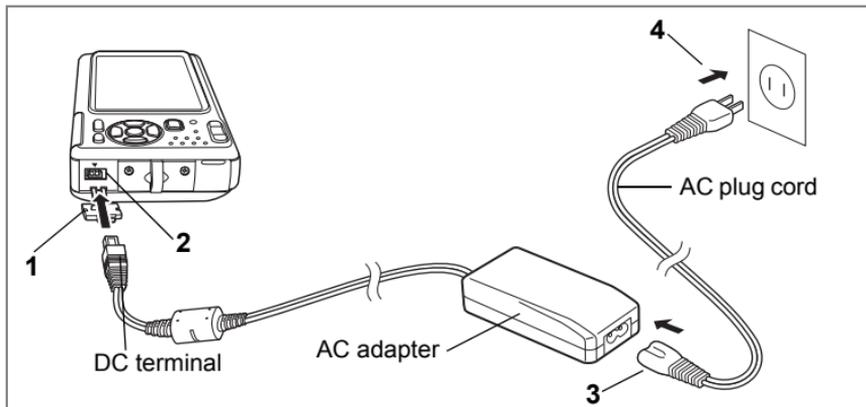
## Using the AC Adapter

Use of the AC adapter kit K-AC63 (optional) is recommended if you intend to use the camera for a long time or connect it to a PC.

**1** **Make sure that the camera is turned off and open the terminal cover.**

**2** **Connect the DC terminal of the AC adapter to DC input terminal of the camera with the ▲ marks facing the same direction.**

**3** **Connect the AC plug cord to the AC adapter.**

**4** **Plug the AC plug cord into the power outlet.**

Caution
- Make sure that the lens cover is closed (the camera is turned off) before connecting or disconnecting the AC adapter.
- Make sure that the AC plug cord and the power cord connecting the AC adapter to the camera are inserted securely. The data may be lost if either becomes disconnected while data is being recorded on the SD Memory Card or the built-in memory.
- Use the AC adapter with due care to avoid fire or electric shock. Be sure to read "USING YOUR CAMERA SAFELY" (p.1) before using the AC adapter.
- Be sure to read the operation manual accompanying the AC adapter kit K-AC63 before using the adapter.
- The battery cannot be charged inside the camera even when the AC adapter is connected.

# Installing the SD Memory Card



SD Memory Card socket

Card cover
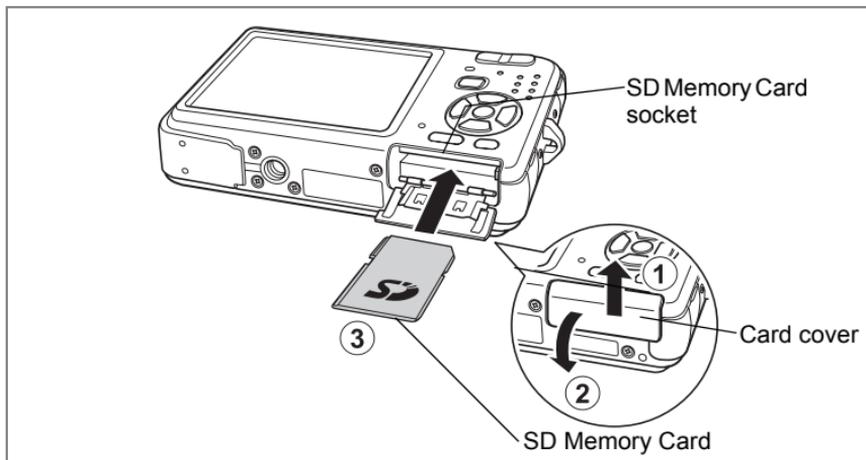
SD Memory Card

This camera uses an SD Memory Card. Captured images and sound files are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted. (p.32)

> **Caution**
> - **Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used on other cameras or digital devices. Refer to "Formatting an SD Memory Card or the Built-in Memory" (p.163) for instructions on formatting.**
> - Make sure that the lens cover is closed (the camera is turned off) before inserting or removing the SD Memory Card.

> **memo**
> - The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels and quality level. (p.29)
> - The power indicator blinks while the SD Memory Card is being accessed (data is being recorded or read).

## Backing Up Data

The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in another location.

## 1 Open the card cover.

When you slide the battery cover out, it springs open.

## 2 Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the back of the camera (the side with the LCD monitor).

Push the card in all the way. Images and sound may not be recorded correctly if the card is not inserted all the way.

## 3 Close the card cover.

Close the card cover in the opposite direction of ②, and slide it in the opposite direction of ① to fasten it closed.

### Removing the SD Memory Card

## 1 Open the card cover.

## 2 Push the card into the SD Memory Card socket to eject it.

Pull the card out.

## Precautions When Using an SD Memory Card

• The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card. ⚌ appears on the LCD monitor when the card is write-protected.

*SD*

Write-protect switch

• Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot.
• Do not remove the SD Memory Card or turn the camera off while data is being saved to the card, images or sound files are being played back, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged.
• Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature.
• Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
• The data on the SD Memory Card may be deleted in the following circumstances. PENTAX does not accept any liability for data that is deleted
  (1) when the SD Memory Card is mishandled by the user.
  (2) when the SD Memory Card is exposed to static electricity or electrical interference.
  (3) when the card has not been used for a long time.
  (4) when the card is ejected or the battery is removed while the data on the card is being recorded or accessed.
• If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer.
• Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
• Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
• When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.
• For information on compatible SD Memory Cards, visit the PENTAX website or contact your nearest PENTAX Service Center.
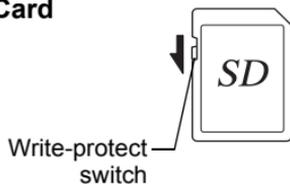
# Recorded Pixels and Quality Level of Still Pictures

Choose the number of pixels (size) and quality level (data compression rate) of still pictures according to how you intend to use the pictures you have taken.

Higher quality levels and numbers of pixels produce clearer images, but the resulting increase in data volume reduces the total number of pictures that can be taken (stored in the camera's built-in memory or on the SD Memory Card).

The quality of the captured photo or printed picture also depends on the quality level, exposure compensation, resolution of the printer and a variety of other factors, so you do not need to select more than the required number of pixels. As a rough guide, $\boxed{2\text{M}}$ (1600×1200) is adequate for making postcard-size prints. Refer to the table below for the appropriate settings according to use.

● **Appropriate Number of Recorded Pixels According to Use**

| Recorded Pixels | | Use |
|---|---|---|
| $\boxed{8\text{M}}$ 3264×2448 | Clearer ↑ | For printing high quality photos or A4-size pictures, or editing images on a PC. |
| $\boxed{5\text{M}}$ 2592×1944 | | |
| $\boxed{4\text{M}}$ 2304×1728 | | |
| $\boxed{3\text{M}}$ 2048×1536 | | For making postcard-size prints. |
| $\boxed{2\text{M}}$ 1600×1200 | | |
| $\boxed{1024}$ 1024× 768 | | For posting on a website or attaching to e-mail. |
| $\boxed{640}$ 640× 480 | | |

**The default setting is $\boxed{8\text{M}}$ (3264×2448).**

● **Appropriate Quality Level According to Use**

| | | |
|---|---|---|
| ★★★ | Best | Lowest compression rate. Suitable for photo prints. |
| ★★ | Better | Standard compression rate. Suitable for viewing the image on a computer screen. |
| ★ | Good | Highest compression rate. Suitable for posting on a website or attaching to e-mail. |

**The default setting is ★★ (Better).**

Choose the appropriate number of recorded pixels and quality level for still pictures on the [✿ Rec.Mode] menu.

Selecting the Recorded Pixels ☞p.89

Selecting the Quality Level ☞p.91

● **Recorded Pixels, Quality Level and Image Storage Capacity (Approximate numbers of pictures)**

|  | ★★★ (Best) | | ★★ (Better) | | ★ (Good) | |
|---|---|---|---|---|---|---|
|  | Built-in Memory | 256 MB | Built-in Memory | 256 MB | Built-in Memory | 256 MB |
| 8M 3264×2448 | 13 pictures | 62 pictures | 26 pictures | 121 pictures | 40 pictures | 186 pictures |
| 5M 2592×1944 | 21 pictures | 97 pictures | 40 pictures | 186 pictures | 58 pictures | 267 pictures |
| 4M 2304×1728 | 26 pictures | 121 pictures | 52 pictures | 242 pictures | 75 pictures | 346 pictures |
| 3M 2048×1536 | 33 pictures | 151 pictures | 65 pictures | 299 pictures | 95 pictures | 435 pictures |
| 2M 1600×1200 | 52 pictures | 242 pictures | 87 pictures | 401 pictures | 128 pictures | 586 pictures |
| 1024 1024× 768 | 104 pictures | 476 pictures | 175 pictures | 802 pictures | 222 pictures | 1016 pictures |
| 640 640× 480 | 208 pictures | 953 pictures | 303 pictures | 1386 pictures | 416 pictures | 1906 pictures |

• The above figures may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc.

## Recorded Pixels, Quality Level and Frame Rate of Movies

Choose the recorded pixels, quality level and frame rate (number of frames per second) according to how you intend to use the movies you have taken.
The higher the number of recorded pixels and quality level, the clearer the details, but the bigger the file size.
The more frames per second, the better the quality of the movie, but the bigger the file size.
Choose the appropriate number of recorded pixels, quality level and frame rate in [Movie] on the [✿ Rec.Mode] menu.

Selecting the Recorded Pixels for Movies ☞p.109

Selecting the Quality Level of Movies ☞p.110

Selecting the Frame Rate ☞p.111

## ● Appropriate Number of Recorded Pixels According to Use

| **640** (640×480) | Suitable for viewing on a TV or computer screen. |
|---|---|
| **320** (320×240) | Suitable for posting on a website or attaching to e-mail. |

The default setting is **640** (640×480).

## ● Appropriate Quality Level According to Use

| ★★★ | Best | | Clearer images |
|---|---|---|---|
| ★★ | Better | | |
| ★ | Good | | Grainier images |

The default setting is ★★★ (Best).

## ● Appropriate Frame Rate According to Use

| 30fps | Produces high quality movies, but reduces the total recording time. |
|---|---|
| 15fps | Increases the total recording time because the file size is smaller. |

The default setting is 30fps (frames per second).

## ● Recorded Pixels, Quality Level, Frame Rate and Recording Time (Approximate recording time)

| | | 30fps | | 15fps | | Sound | |
|---|---|---|---|---|---|---|---|
| | | Built-in Memory | 256 MB | Built-in Memory | 256 MB | Built-in Memory | 256 MB |
| **640** 640×480 | ★★★ | 49 sec. | 3 min. 47 sec. | 1 min. 38 sec. | 7 min. 28 sec. | 41 min. 17 sec. | 3 hr. 8 min. 53 sec. |
| | ★★ | 1 min. 6 sec. | 5 min. 5 sec. | 2 min. 13 sec. | 10 min. 10 sec. | | |
| | ★ | 1 min. 41 sec. | 7 min. 42 sec. | 3 min. 16 sec. | 14 min. 57 sec. | | |
| **320** 320×240 | ★★★ | 1 min. 19 sec. | 6 min. 3 sec. | 2 min. 31 sec. | 11 min. 33 sec. | | |
| | ★★ | 1 min. 47 sec. | 8 min. 12 sec. | 3 min. 28 sec. | 15 min. 53 sec. | | |
| | ★ | 2 min. 31 sec. | 11 min. 33 sec. | 5 min. 3 sec. | 23 min. 6 sec. | | |

• The above figures are based on PENTAX standard shooting conditions and may vary depending on the subject, shooting conditions and type of SD Memory Card used.
• Recording can continue until the built-in memory/SD memory card is full, or the size of the recorded movie reaches 2 GB (when using an SDHC card). If recording stops at 2 GB, start recording again to continue to record the rest of the movie in blocks of 2 GB.

# Turning the Camera On and Off

Lens cover/power switch　　Power indicator
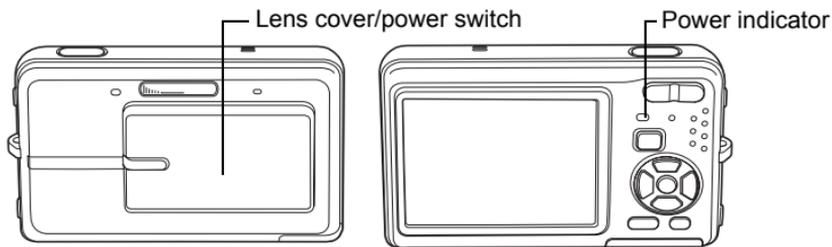
## 1 Open the lens cover.

The camera turns on and the power indicator turns on.
If the Initial Setting screen appears when you turn the camera on, follow the procedure on p.34 to set the display language and/or current date and time.

## 2 Close the lens cover.

The camera turns off and the power indicator turns off.

Taking Pictures ☞p.62

#### Checking the Memory Card

The memory card is checked automatically when the camera turns on. 🏵 appears on the LCD monitor when there is no SD Memory Card inserted in the camera. In this case, images and sound files will be saved in the built-in memory.

🏵 appears instead of 🗍 when the write-protect switch on the SD Memory Card is in the locked position. Images and sound cannot be recorded when the write-protect switch is locked.

Memory status
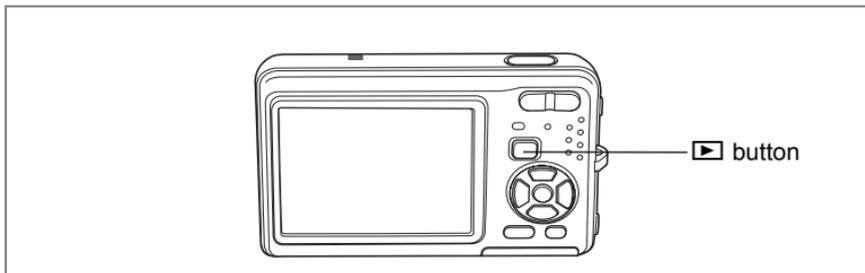
□ button

## Playback Mode

Use this mode when you want to play back an image or sound file straightaway without taking any more pictures.

**1 Press and hold the playback button for two seconds.**

The LCD monitor turns on and the camera starts in Playback mode.

memo   To switch from Playback Mode to ● mode, open the lens cover.

Playing Back Still Pictures ☞p.41

# Initial Settings

Set the language, time, and date after purchasing the camera before you start taking pictures.



Four-way controller
**OK** button
**MENU** button
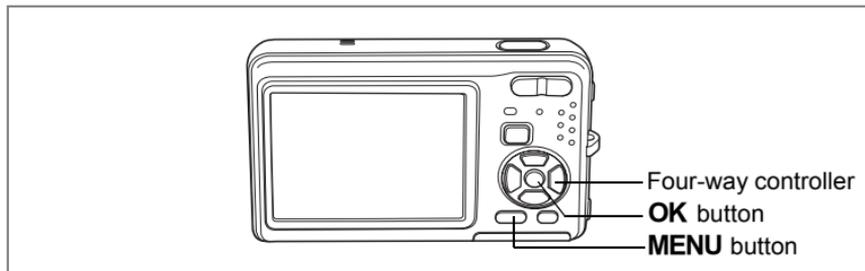
The Language/言語 screen appears when the camera is turned on for the first time. Perform the operations in "Setting the Display Language" below to set the language, and in "Setting the Date and Time" (p.36) to set the current date and time.

Language, Date, and Time can be changed later. Refer to the pages below for instructions.
- To change the language, follow the steps in "Changing the Display Language" (☞p.172).
- To change the date and time, follow the steps in "Changing the Date and Time" (☞p.164).

## Setting the Display Language

**1 Use the four-way controller (▲ ▼ ◄ ►) to choose the display language.**

```
┌─────────────────────────────┐
│ Language/言語                 │
│ English   Dansk    Русский   │
│ Français  Svenska  ไทย        │
│ Deutsch   Finnish  日本語      │
│ Español   Polish             │
│ Português Czech              │
│ Italiano  Hungarian          │
│ Nederlands Türkçe            │
│ MENUCancel          OK OK    │
└─────────────────────────────┘
```

## 2 Press the OK button.

The Initial Setting screen appears in the selected language. If the desired settings for [Hometown] and daylight saving time appear, press the **OK** button again to display the [Date Adjust] screen. Go to "Setting the Date and Time" (p.36). Go to Step 3 in "Setting Hometown and DST" if the desired settings do not appear.
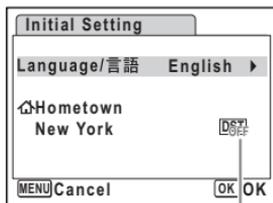
```
┌─────────────────────────┐
│ Initial Setting          │
│                          │
│ Language/言語  English  ▶ │
│                          │
│ ⌂Hometown               │
│  New York          DST   │
│                          │
│ MENU Cancel      OK OK   │
└─────────────────────────┘
```
Daylight saving time

---

If you accidentally select another language and go to the next procedure, perform the following operation to set the language back.

● **When Another Language Has Been Inadvertently Selected**

**1 Press the four-way controller (▶).**

**2 Use the four-way controller (▲ ▼ ◀ ▶) to select the language and press the OK button.**
The Initial Setting screen appears in the selected language.

● **When the Screen After Step 2 Appears in Another Language**

**1 Press the OK button.**

**2 Press the MENU button.**

**3 Press the four-way controller (▶).**

**4 Use the four-way controller (▼ ▲) to select [Language/言語 ].**

**5 Press the four-way controller (▶).**
The Language/言語 screen appears.

**6 Use the four-way controller (▲ ▼ ◀ ▶) to select the language.**

**7 Press the OK button.**
The [✎ Setting] menu appears in the selected language.

The language is now switched to your desired language. To reset Hometown and the Date and Time, refer to the pages below for instructions.
• To change Hometown, follow the steps in "Setting the World Time" (p.170).
• To change the Date and Time, follow the steps in "Changing the Date and Time" (p.164).

#### Setting Hometown and DST

**3** **Press the four-way controller (▼).**
The frame moves to [Hometown].

**4** **Press the four-way controller (▶).**
The Hometown screen appears.

**5** **Use the four-way controller (◀ ▶) to choose the city.**

**6** **Press the four-way controller (▼).**
The frame moves to [DST] (Daylight Saving Time).

**7** **Use the four-way controller (◀ ▶) to select ☑ (On) or □ (Off).**

**8** **Press the OK button.**
The Initial Setting screen appears.

**9** **Press the OK button.**
The Date Adjust screen appears. Next, set the date and time.

| Initial Setting | |
|---|---|
| Language/言語 | English |
| ⌂ Hometown New York | D꜒꜓ ▶ |
| MENU Cancel | OK OK |
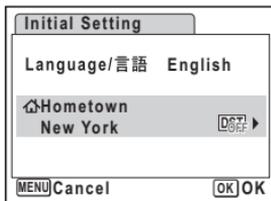
### Setting the Date and Time

Set the current date and time and the display style.

**1** **Press the four-way controller (▶).**
The frame moves to [mm/dd/yy].

**2** **Use the four-way controller (▲ ▼) to choose the date and time display style.**

| Date Adjust | |
|---|---|
| Date Style | ◀ mm/dd/yy 24h |
| Date | 01/01/2007 |
| Time | 0:00 |
| MENU Cancel | OK OK |
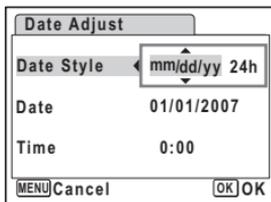
**3** **Press the four-way controller (▶).**
The frame moves to [24h].
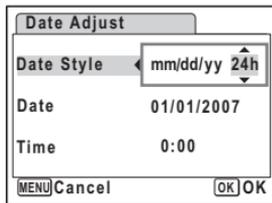
**4** **Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).**

**5** **Press the four-way controller (▶).**
The frame returns to [Date Style].

**6** **Press the four-way controller (▼).**
The frame moves to [Date].

| Date Adjust | |
| --- | --- |
| Date Style | ◀ mm/dd/yy 24h ▲▼ |
| Date | 01/01/2007 |
| Time | 0:00 |
| MENU Cancel | OK OK |

| Date Adjust | |
| --- | --- |
| Date Style | mm/dd/yy 24h |
| Date | ▶01/01/2007 |
| Time | 0:00 |
| MENU Cancel | OK OK |
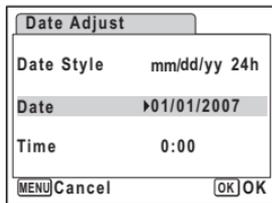
**7** **Press the four-way controller (▶).**
The frame moves to the month.

**8** **Use the four-way controller (▲▼) to change the month.**
Change the day and year in the same manner.
Next, change the time.
If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time.

| Date Adjust | |
| --- | --- |
| Date Style | mm/dd/yy 24h |
| Date | ◀ 01/01/2007 ▲▼ |
| Time | 0:00 |
| MENU Cancel | OK OK |
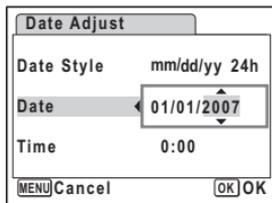
**9** **Press the OK button.**
The setting is set and the camera returns to capture status.

Language, Date, Time, Hometown, and DST can be changed. Refer to the pages below for instructions.
• To change the language, follow the steps in "Changing the Display Language" (☞p.172).
• To change the date and time, follow the steps in "Changing the Date and Time" (☞p.164).
• To change the city or turn DST on and off, follow the steps in "Setting the World Time" (☞p.170).

Caution
When the Initial Setting or Date Adjust screen is displayed, you can cancel the setting operation and switch to Capture mode by pressing the **MENU** button. In this case, the Initial Setting screen will appear next time you turn the camera on.

memo
If you press the **OK** button in Step 9, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

The video output format (NTSC/PAL) is set to the format of the city selected in [Hometown] on the Initial Setting screen. Refer to "List of World Time Cities" (p.183) for the video output format of each city set as the Initial Setting, and "Changing the Video Output Format" (p.175) for changing the setting of the video output format.

# Taking Still Pictures



Shutter release button

Zoom/ ♦♦♦ / ♦ button
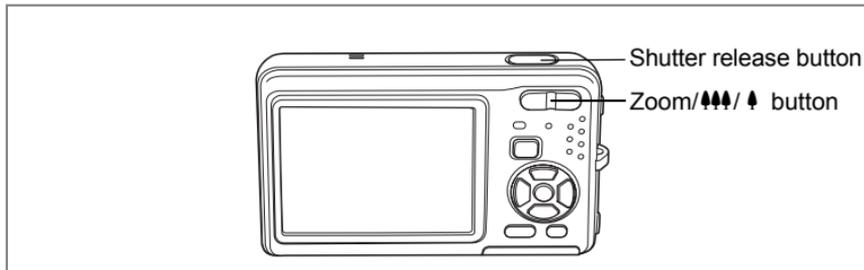
The standard procedure for taking still pictures is described below. The flash fires automatically depending on the light conditions.

## 1 Open the lens cover.

The camera turns on and is ready to take still pictures. In this manual, this is called Still Picture Capture mode.

## 2 Confirm the subject and shooting information on the LCD monitor.

The focus frame in the middle of the LCD monitor indicates the zone of automatic focusing.

Focus frame

You can change the captured area by pressing the Zoom/ ♦♦♦ / ♦ button to the left or right.

- ♦ : enlarges the subject
- ♦♦♦ : widens the area that is captured by the camera

## 3 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

## 4 Press the shutter release button fully.

The picture is taken.

The image appears on the LCD monitor for one second (Instant Review) and is saved to the SD Memory Card or built-in memory. (p.40)

memo

Press the Green button to switch to the Green Mode and let the camera set all the shooting functions automatically. Selecting the Green Mode is the easiest way to ensure that pictures come out well. (p.64)

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2 Quick Start

### Using the Shutter Release Button

The shutter release button works in a two-step action as follows.

**Press halfway**

The focus and exposure are locked when the shutter release button is pressed halfway. The green focus frame lights on the LCD monitor when the shutter release button is pressed halfway and the subject is in focus. If the subject is out of focus, the frame will light red.

**Press fully**

Press the shutter release button all the way down to take the picture.

[Poor focusing conditions]

The camera may not be able to focus under the following conditions. In these cases, lock the focus on an object the same distance away as the subject (by pressing and holding the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully.

- Objects that lack contrast such as a blue sky or white wall
- Dark places or objects, or conditions that prevent light being reflected back
- Horizontal lines or intricate patterns
- Fast moving objects
- When there is an object in the foreground and an object in the background in the same picture
- Strongly reflected light or strong backlighting (bright background)

### Instant Review

The image appears on the LCD monitor for one second (Instant Review) immediately after it is captured. You can change the Instant Review time. (p.100)
You can delete the image during Instant Review by pressing the 面 button.

# Playing Back Still Pictures

Shutter release button

$\boxed{\blacktriangleright}$ button

Four-way controller
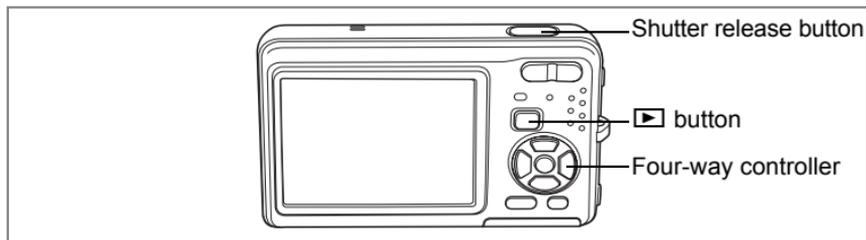
## Playing Back Images

### 1 Press the $\boxed{\blacktriangleright}$ button after taking a picture.

The image appears on the LCD monitor. In this manual, this is called $\boxed{\blacktriangleright}$ mode (Playback mode). Displaying one image in full in $\boxed{\blacktriangleright}$ mode ($\boxed{\blacktriangleright}$ mode default setting) is called single-image display.

Press the $\boxed{\blacktriangleright}$ button again in $\boxed{\blacktriangleright}$ mode or press the shutter release button halfway to switch to $\boxed{\bullet}$ mode.

File number

100-0038

01/01/2007
14:25

## Playing Back the Previous or Next Image

### 1 Press the $\boxed{\blacktriangleright}$ button after taking a picture.

The image appears on the LCD monitor.

### 2 Press the four-way controller ( ◀ ▶ ).

The previous or next image appears.

2 Quick Start

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**&#9654; button**
**Four-way controller**
**OK button**
**&#128465; button**
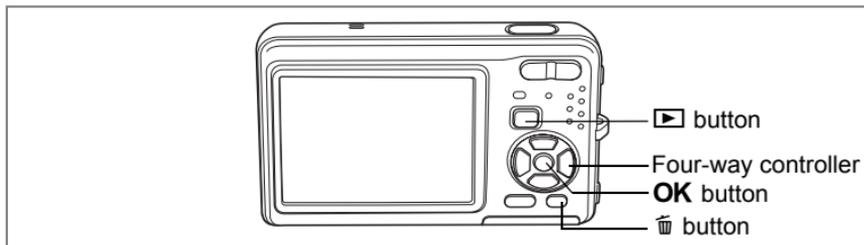
## Rotating the Displayed Image

**1 Press the &#9654; button after taking a picture.**
The image appears on the LCD monitor.

**2 Press the four-way controller (▼).**
The Playback Mode Palette appears.

**3 Use the four-way controller (▲ ▼ ◄ ►) to select ◇ (Image Rotation) and press the OK button.**
The rotation selection screen (0°, Right 90°, Left 90°, or 180°) appears.
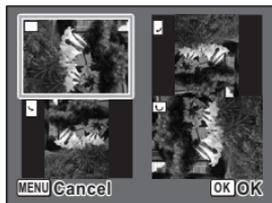
**4 Use the four-way controller (▲ ▼ ◄ ►) to choose the rotation direction and press the OK button.**
The rotated image appears.



MENU Cancel    OK OK

memo
- Movies cannot be rotated.
- Protected images can be rotated, but they cannot be saved in a rotated state.

#### Deleting the Displayed Image

Press the &#128465; button while the image is displayed to display the Delete screen. Use the four-way controller (▲) to select [Delete] and press the OK button. (p.127)



100-0017

Delete
Cancel

All Images/Sounds    OK OK

2 Quick Start

## A Mode
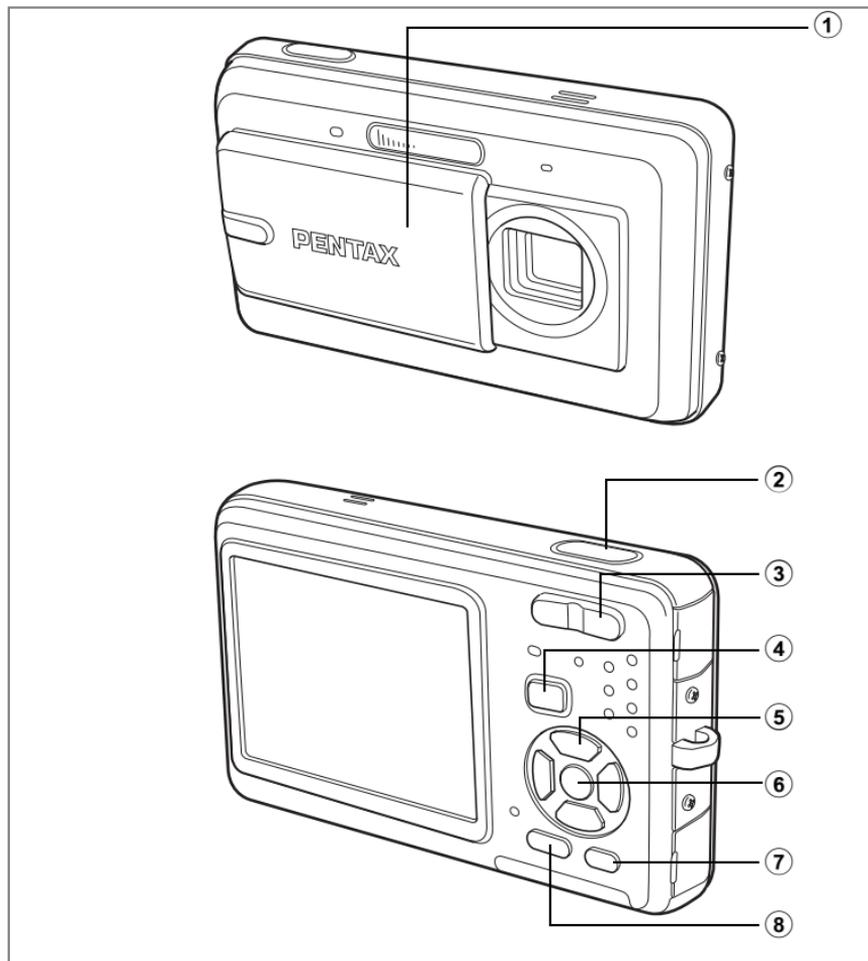
1 **Lens cover/power switch**
   Turns the camera on and off. (p.32)

② **Shutter release button**

Focuses the camera on the subject when pressed halfway in Still Picture Capture mode. (Except in **PF**, ▲ and **MF** modes) (p.39)
Takes the still picture when pressed down fully. (p.39)
Starts and stops movie recording in 🎥 mode. (p.107)
Starts and stops sound file recording in 🎤 mode. (p.158)

③ **Zoom/444/ 4 /🔄/⊙ button**

Changes the captured area. (p.76)

④ **▶ button**

Switches to the ▶ mode. (p.116)

⑤ **Four-way controller**

( ▲ ) : Changes the drive mode. (p.74, p.75)
( ▼ ) : Displays the Capture Mode Palette. (p.53)
( ◀ ) : Changes the flash mode. (p.87)
( ▶ ) : Changes the focus mode. (p.85)
( ▲▼ ) : Adjusts **MF** in **MF** mode. (p.86)

⑥ **OK/DISPLAY button**

Changes the information displayed on the LCD monitor. (p.83)

⑦ **Green button**

Switches to the Green Mode. (p.64)
Calls up the assigned menu. (p.57)
Takes a still picture during movie recording. (p.108)

⑧ **MENU button**

Displays the [🅾 Rec.Mode] menu. (p.48)
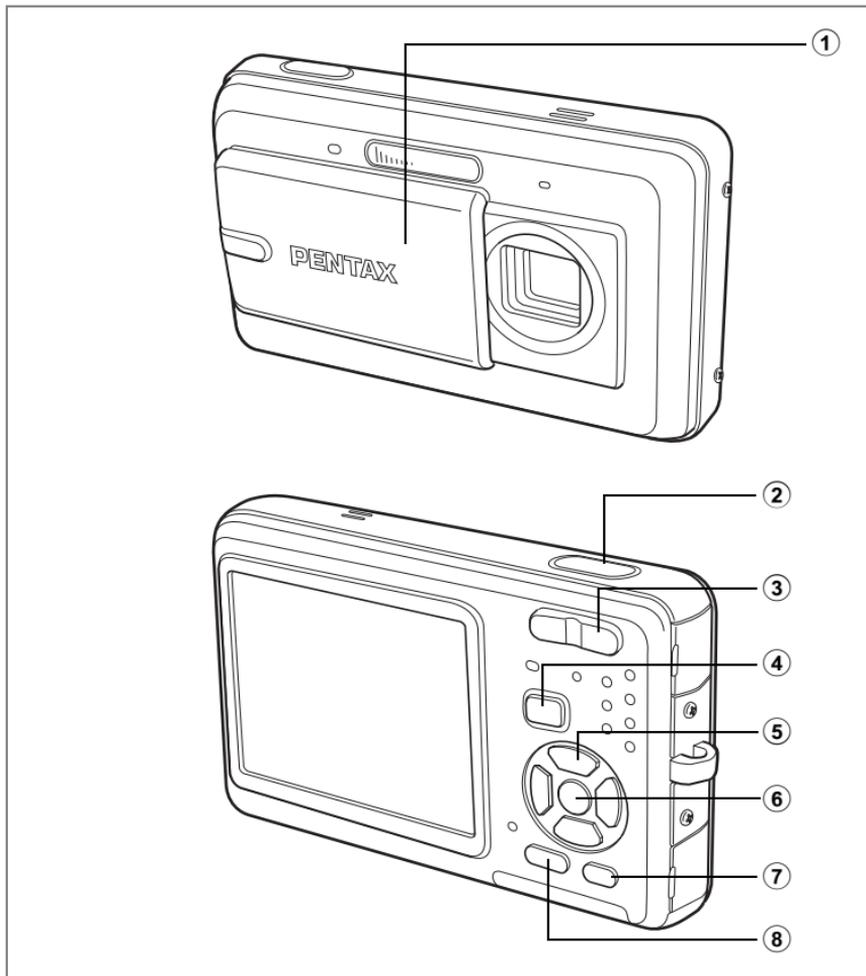
## ▶ Mode

1 **Lens cover/power switch**
   Turns the camera on and off. (p.32)

2 **Shutter release button**
   Switches to ☐ mode. (p.116)

Common Operations

**45**

③ **Zoom/ᗡ/Q button**

Press ᗡ during single-image display to change to nine-image display.
Returns to the previous display when Q is pressed. (p.117)
Enlarges the image when Q is pressed during single-image display.
Returns to the previous display when ᗡ is pressed. (p.119)
Press ᗡ during nine-image display to change to folder or calendar
display. (p.118)
Press Q during folder display to change to nine-image display of the
selected folder. (p.118)
Press Q during calendar display to change to nine-image display for
the selected date. (p.118)
Can be used to adjust the volume during playback of movies or sound
files. (p.125, p.160)

④ **▶ button**

Switches to ▲ mode. (p.116)

⑤ **Four-way controller**

(▲)      : Plays back and pauses a movie or sound file. (p.125,
           p.160)
(▼)      : Displays the Playback Mode Palette. (p.61)
           Stops a movie or sound file during playback. (p.125,
           p.160)
(◀▶)     : Displays the previous or next image and sound file during
           single-image display. (p.41)
           Frame forwards, frame reverses, reverses a movie and
           makes a movie play forwards during playback. (p.125)
           Fast forwards, reverses, and moves to the index in sound
           file playback. (p.160)
(▲▼◀▶)   : Moves the display area during zoom display. (p.119)
           Selects an image in nine-image display, a folder in folder
           display, and a date in calendar display. (p.117, p.118)
           Moves the image when using the Frame Composite
           function. (p.144)

⑥ **OK/DISPLAY button**

Changes the information displayed on the LCD monitor. (p.120)
Returns zoom display or nine-image display to single-image display.
(p.117, p.119)
Changes to nine-image display of the selected folder during folder
display. (p.118)
Changes to single-image display of the selected date during calendar
display. (p.118)

7 **Green/ 汲 button**

Switches from single-image display to the Delete screen. (p.127)
Switches from nine-image display to the Select & Delete screen. (p.129)
Switches from folder display to the calendar display screen. (p.118)
Switches from calendar display to the folder display screen. (p.118)

8 **MENU button**

Displays the [✎ Setting] menu during single-image display. (p.48)
Returns to single-image display during Playback Mode Palette display.
(p.60)
Returns zoom display or nine-image display to single-image display.
(p.117)
Changes to nine-image display of the selected folder during folder
display. (p.118)
Changes to nine-image display of the selected date during calendar
display. (p.118)

# Setting the Camera Functions

To change the camera settings, press the **MENU** button to display the [□ Rec.Mode] menu or [✎ Setting] menu. Menus for playing back and editing images and sound files are displayed from the Playback Mode Palette.

## Setting with the Menus

Press the **MENU** button in □ mode to display the [□ Rec.Mode] menu.
Press the **MENU** button in ▶ mode to display the [✎ Setting] menu.

During recording          During playback

**MENU**          **MENU**

| □ Rec.Mode | 1/3 |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ** |
| White Balance | AWB |
| AF Setting |  |
| AE Metering | ◙ |
| Sensitivity | AUTO |
| MENU Exit | |

| □ ✎ Setting | 1/3 |
|---|---|
| Format | |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | □ |
| World Time | ⌂ |
| Language/言語 | English |
| MENU Exit | |

| □ Rec.Mode | 1/3 |
|---|---|
| Recorded Pixels | ▶ 8M |
| Quality Level | ** |
| White Balance | AWB |
| AF Setting |  |
| AE Metering | ◙ |
| Sensitivity | AUTO |
| MENU Exit | |

| □ ✎ Setting | 1/3 |
|---|---|
| Format | ▶ |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | □ |
| World Time | ⌂ |
| Language/言語 | English |
| MENU Exit | |

**SHUTTER**
Press halfway

**MENU**, **OK** or ▶

The setting is complete and the camera returns to □ mode

The setting is complete and the camera returns to ▶ mode

memo  A guide to available button operations appears on the LCD monitor during menu operation.

**Ex.) To set the [Quality Level] on the [✦ Rec.Mode] menu**

**1** **Press the MENU button in ✦ mode.**

The [✦ Rec.Mode] menu appears.

| ✦ Rec.Mode | 1/3 ▶ |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Exit

**2** **Press the four-way controller (▼).**

The frame moves to [Recorded Pixels].

**3** **Press the four-way controller (▼).**

The frame moves to [Quality Level].

| ✦ Rec.Mode | 1/3 |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ▶★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Exit

**4** **Press the four-way controller (▶).**

A pull-down menu appears with the items that can be selected.

The pull-down menu displays only those items that can be selected with the current camera settings.

| 🗋 Storage Capacity | 13 |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★★ |
| White Balance | ★★ |
| AF Setting | ★ |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Cancel    OK OK

**5** **Use the four-way controller (▲▼) to change the setting.**

The quality level changes each time the four-way controller (▲▼) is pressed.

Refer to the following page for instructions on saving settings and canceling changes.
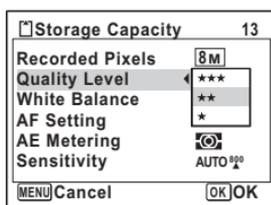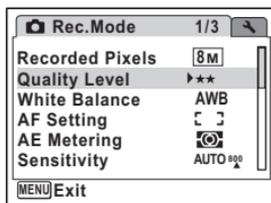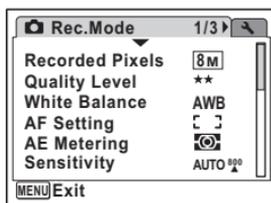
**To Save the Setting and Start Taking Pictures**

## 6 Press the shutter release button halfway.

The setting is saved and the camera returns to capture status.
When the shutter release button is pressed fully, the picture is taken.

**To Save the Setting and Begin Playback of Images**

## 6 Press the ▶ button.

The setting is saved and the camera returns to playback status.

**To Save the Setting and Continue with Menu Operations**

## 6 Press the OK button or the four-way controller (◄).

The setting is saved and the screen returns to Step 3.

**To Cancel the Changes and Continue with Menu Operations**

## 6 Press the MENU button.

The changes are canceled and the screen returns to Step 3.

The **MENU** button function differs depending on the screen. Refer to
the guide indications.

MENU Exit : Exits the menu and returns to the original screen.

MENU ⮌ : Returns to the previous screen with the current
setting.

MENU Cancel : Cancels the current selection, exits the menu and
returns to the previous screen.

## Menu List

This displays the items that can be set with the menus and provides descriptions of each item. See the list of default settings in the Appendix "Default Settings" (p.184) to decide whether you want the settings saved when the camera is turned off and whether you want the settings returned to the defaults when the camera is reset.

### [✿ Rec.Mode] Menu

This menu shows the functions related to taking still pictures and recording movies.

| Item | | Description | Page |
|---|---|---|---|
| Recorded Pixels | | For choosing the number of recorded pixels of still pictures | p.89 |
| Quality Level | | For adjusting the quality level of still pictures | p.91 |
| White Balance | | For adjusting the color balance according to the lighting conditions | p.92 |
| AF Setting | Focusing Area | For changing the area of the autofocus | p.98 |
| | Focus Limiter | For limiting the focusing range according to the conditions | p.99 |
| AE Metering | | For setting the area of the screen that is metered to determine the exposure | p.94 |
| Sensitivity | | For setting the ISO sensitivity | p.96 |
| EV Compensation | | For adjusting the overall brightness of the picture | p.82 |
| Movie | Recorded Pixels | For choosing the number of recorded pixels of movies | p.109 |
| | Quality Level | For choosing the quality level of movies | p.110 |
| | Frame Rate | For setting the frame rate (number of frames per second) | p.111 |
| | Color Mode | For choosing a color mode for movies | p.112 |
| | Movie SR | For choosing whether to use the movie anti-shake function | p.113 |
| | AF w/ recording | For choosing the focusing method for recording movies | p.114 |
| | Optical Zoom | For choosing whether to use the optical zoom function for movies | p.115 |
| Digital Wide | | For choosing whether to use the Digital Wide function. | p.81 |
| Digital Zoom | | For choosing whether to use the digital zoom function | p.78 |
| Instant Review | | For setting the Instant Review time | p.100 |
| Memory | | For choosing whether to save the set values of the shooting function or return to the defaults when the camera is turned off | p.105 |
| Green Button | | For assigning a function to the Green button in Capture mode | p.57 |
| Sharpness | | For choosing sharp or soft outlines | p.101 |
| Saturation | | For setting the color saturation | p.102 |
| Contrast | | For setting the image contrast level | p.103 |
| Date Imprint | | For choosing whether to imprint the date when taking still pictures. | p.104 |

3

Common Operations

memo
- Use the Green Mode to enjoy easy picture-taking using standard settings, regardless of the settings in the [✿ Rec.Mode] menu. (p.64)
- Assigning frequently used functions to the Fn settings menu of the Green button enables you to go straight to the menu. (p.57)

## [✎ Setting] Menu

| Item | Description | Page |
|------|-------------|------|
| Format | For formatting the SD Memory Card or built-in memory | p.163 |
| Sound | For adjusting the operation volume and playback volume, and setting the start-up sound, shutter sound, key operation sound and self-timer sound | p.166 |
| Date Adjust | For adjusting the date, time, and date style | p.164 |
| Alarm | For setting the alarm | p.168 |
| World Time | For setting the world time | p.170 |
| Language/言語 | For setting the language in which menus and messages appear | p.172 |
| Folder Name | For choosing how names are assigned to folders for storing images and sound files | p.173 |
| USB Connection | For setting the USB cable connection (to PC or printer) | p.174 |
| Video Out | For setting the output format to the AV equipment | p.175 |
| Brightness Level | For changing the brightness of the LCD monitor | p.176 |
| Power Saving | For setting the time until the camera enters power-saving mode | p.177 |
| Auto Power Off | For setting the time until the camera turns off automatically | p.178 |
| Guide Display | For displaying a guide for the function selectable in the Capture Mode Palette and the Playback Mode Palette. | p.179 |
| Reset | For returning settings other than the date and time, language, world time and video out to their defaults | p.180 |

3 Common Operations

**52**

Four-way controller

**OK** button

## Setting the Shooting Mode

The Optio Z10 has a variety of shooting modes that let you take pictures or record movies and sound in different situations simply by choosing the right mode for the particular situation from the Capture Mode Palette.

**1** **Press the four-way controller (▼) in ✿ mode.**

The Capture Mode Palette appears.

**2** **Use the four-way controller (▲▼◄►) to choose a shooting mode.**

A shooting mode guide appears about 2 seconds after the shooting mode is chosen. You can turn off the shooting mode guide by operating the menu. Refer to "Setting the Guide Display" (p.179) for details of how to operate the menu.



**3** **Press the OK button.**

The shooting mode is selected and the camera returns to capture status.



memo
- In shooting modes other than P, 🎬, ♫, 💟 and 《≪》, saturation, contrast, sharpness, white balance, etc. are automatically set to the optimal settings for each mode.
- Some functions may not be available or may not function fully depending on the shooting mode. For details, refer to "Functions Available for Each Shooting Mode" (p.188).
- You can turn off the shooting mode guide on the Capture Mode Palette. (p.179)

3

**Common Operations**

53

There are 16 available shooting modes.

1 **AUTO PICT** **Auto Picture**
   Use this mode to select the best shooting mode automatically.

2 **P Program**
   The basic picture-taking mode. You can let the camera set the functions or choose various functions yourself. (p.63)

3 **Night Scene**
   Ideal for taking night views. It is best to use a tripod in this mode. Use the flash if including people in your picture. (p.66)



4 **Movie**
   Use this mode for taking movies. Sound is recorded at the same time. (p.107)

5 **Voice Recording**
   Use this mode to record sound files. Be careful not to cover the microphone on the top of the camera with your hand. (p.158)

6 **Landscape**
   Use this mode for taking landscape views. The depth of field encompasses a wide area.



7 **Flower**
   Use this mode for taking bright, colorful pictures of flowers with soft outlines.

⑧ **☺ Natural Skin Tone**
Adjusts the color and brightness to reproduce skin tone more beautifully than Portrait mode.



⑨ **☺ Portrait**
Use this mode for taking pictures of people. Gives your subject a bright, healthy look.



⑩ **⛷ Surf & Snow**
For capturing images with dazzling backgrounds, such as beaches or snowy mountains.



⑪ **⚲ Sport**
Ideal for taking fast-moving action shots. The camera keeps the moving subject in focus until the shutter release button is pressed.



⑫ **《☺》 Digital SR (Blur Reduction)**
Use this mode to take pictures indoors or in low light conditions. The camera reduces camera shake by increasing shutter speed and sensitivity.



⑬ **☺ Kids**
Ideal for taking pictures of children who are moving around. Gives your subject a bright, healthy look.

⑭  P **Pet**
Ideal for taking pictures of pets. The camera keeps the moving pet in focus until the shutter release button is pressed. You can select settings according to the color of your pet's coat. (p.72)



⑮  ⑪ **Food**
Use this mode for taking pictures of food. The increased saturation gives pictures a bright, vivid finish.



⑯  ♥ **Frame Composite**
Use this mode to take pictures with a frame. The number of recorded pixels is fixed at 3M. (p.67)

## Calling Up a Specific Menu

If you set the Green Mode in the Green button, the camera enters the Green Mode when you press the Green button. If you set Fn Setting in the Green button, the menu assigned to the four-way controller is displayed when you press the Green button. This is useful for going straight to the setting screens of frequently used functions such as EV Compensation, Sensitivity and White Balance.

memo
- The functions you can register in Fn Setting are Recorded Pixels, Quality Level, White Balance, Focusing Area, Focus Limiter, AE Metering, Sensitivity, EV Compensation, Sharpness, Saturation, and Contrast when the Still Picture Capture Mode is selected, and Recorded Pixels, Quality Level, Frame Rate, Color Mode, Movie SR, White Balance, Focusing Area, EV Compensation, Sharpness, Saturation, and Contrast when the 🎬 Mode is selected.
- The Green Button setting can be returned to the default setting by selecting [Reset] on the [✎ Setting] menu.
- The functions assigned to the Green button can be used in the usual manner on the original menus ([🗖 Rec.Mode] and [✎ Setting]).

### Registering the Green Mode in the Green Button

**1** Select [Green Button] on the [🗖 Rec.Mode] menu.

**2** Press the four-way controller (▶).
A pull-down menu appears.

**3** Use the four-way controller (▲ ▼) to choose Green mode.

**4** Press the OK button.
The camera returns to the [🗖 Rec.Mode] menu.

**5** Press the MENU button once.
The camera returns to capture status with the current setting.
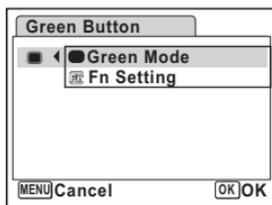
**Registering Fn Setting in the Green Button**

**1**  **Select [Green Button] on the [**$\bullet$ **Rec.Mode] menu.**

**2**  **Press the four-way controller (**▶**).**
A pull-down menu appears.

**3**  **Use the four-way controller (**▲▼**) to select [Fn Setting].**

| Green Button | |
|---|---|
| ■ ◀ | ●Green Mode |
| | 🅁 Fn Setting |

MENU Cancel        OK OK
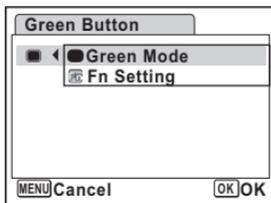
**4**  **Press the** OK **button.**

**5**  **Use the four-way controller (**▲▼**) to choose the four-way controller key to set.**

**6**  **Press the four-way controller (**▶**).**
A pull-down menu appears.

| Green Button | |
|---|---|
| ■ | ▶🅁 Fn Setting |
| ✛🅐 | ✏EV Compensation |
| ✛🅒 | ▦Recorded Pixels |
| ✛🅒 | ▤Quality Level |
| ✛🅒 | ▨White Balance |

MENU ↩

**7**  **Use the four-way controller (**▲▼**) to choose a function and press the** OK **button.**

**8**  **Repeat Steps 5 to 7 to register the necessary functions.**

**9**  **Press the** MENU **button twice.**
The camera returns to capture status with the current setting.

| Green Button | |
|---|---|
| ■ | ▨Sensitivity |
| | ✏EV Compensation |
| ✛🅐 ◀ | ⑤Sharpness |
| ✛🅒 | ▨Saturation |
| ✛🅒 | ❶Contrast |
| ✛🅒 | |

MENU Cancel        OK OK

Common Operations
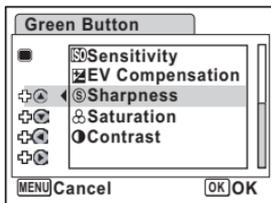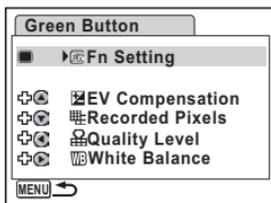
#### Using the Green Button

## 1 Press the Green button in $\bullet$ mode.

The function assigned to [Green Button] on the [$\bullet$ Rec.Mode] menu is called up. When [Fn Setting] is called up, the functions assigned to the four-way controller ($\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$) are displayed.

## 2 Use the four-way controller ($\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$) to select the function you want to change.

## 3 Change the settings and press the OK button or the Menu button.

The camera returns to capture status.

memo
- If the Sensitivity function has been assigned to a four-way controller key for [Fn Setting], the automatically adjusted range for AUTO cannot be changed using the operation described here. If the White Balance function has been assigned to a four-way controller key, the white balance setting cannot be changed using the operation described here. Use the menu to manually select a setting in advance.
- If a function other than the Green Mode has been assigned to the Green button, the camera returns to the original screen if no operation is performed for one minute after the Green button is pressed.

Common Operations

## Setting the Playback Mode

Press the four-way controller (▼) in ▶ mode to display the Playback Mode Palette.
You can display the playback function you want to use simply by using the four-way controller (▲▼◀▶) to choose an icon and pressing the **OK** button.
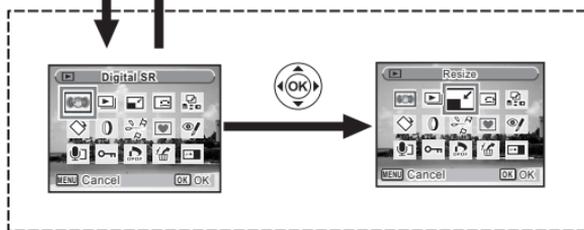


Closes the Playback Mode Palette and goes to ▲ mode.
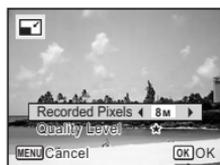
Goes to the screen for selected playback function.

memo
- When the frame is placed over the various icons of the Playback Mode Palette, a playback mode guide appears for about 2 seconds.
- You can turn off the playback mode guide on the Playback Mode Palette. (p.179)

## Playback Mode Palette

| Item | | | Description | Page |
|---|---|---|---|---|
| ⟨⟩ | Digital SR | | For reducing the camera shake in recorded images | p.121 |
| ▶│ | Slideshow | | For playing back recorded images one after another | p.123 |
| ▱ | Resize | | For changing the recorded pixels and quality of images | p.135 |
| ▭ | Cropping | | Creates an image from a selected portion of the image | p.137 |
| ⚇ | Image/Sound Copy | | For copying images and sound files from the built-in memory to the SD Memory Card and vice versa | p.138 |
| ◇ | Image Rotation | | For rotating still pictures | p.42 |
| ◑ | Digital Filter | | For processing still pictures as you desire | p.140 |
| ✂ | Movie Edit | Save as Still image | For saving one frame from a movie as a still picture | p.147 |
| | | Divide Movies | For dividing a movie into two | p.148 |
| | | Stitch Movies | For joining two movies together | p.149 |
| ♥ | Frame Composite | | For adding a decorative frame to a still picture | p.144 |
| ⊘ | Red-eye Compensation | | For correcting still pictures where the flash has caused the subject to appear with red eyes | p.143 |
| 🎙 | Voice Memo | | For adding a voice memo to still pictures | p.161 |
| ⊶ | Protect | | For protecting images and sound files from accidental deletion | p.133 |
| 🖨 | DPOF | | For setting the DPOF print order data for still pictures | p.150 |
| ⚕ | Image Recovery | | For recovering deleted images | p.132 |
| ▱ | Start-up Screen | | For setting the start-up screen | p.181 |

3

**Common Operations**

**61**

Shutter release
button

Four-way
controller
**OK** button
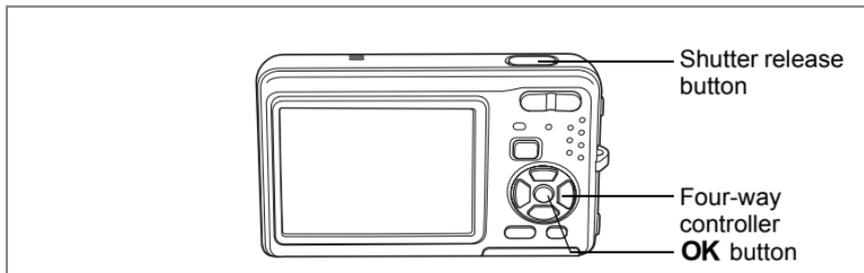
## Taking Pictures Automatically (Auto Picture Mode)

In <span>AUTO PICT</span> (Auto Picture mode), when you press the shutter release button, the camera selects the most appropriate mode from four shooting modes: ☺ (Standard mode), 🌃 (Night Scene mode), 🏔 (Landscape mode) and 🙂 (Portrait mode).

**1  Press the four-way controller (▼) in ☐ mode.**
The Capture Mode Palette appears.

**2  Use the four-way controller (▲ ▼ ◄ ►) to select <span>AUTO PICT</span> (Auto Picture mode).**

**3  Press the OK button.**

**4  Press the shutter release button halfway.**
The focus frame on the LCD monitor will light green when the camera is in focus, and the selected mode icon will appear on the top left of the LCD monitor.

**5  Press the shutter release button fully.**
The picture is taken.

memo    In Auto Picture mode, the exposure compensation is fixed to ±0.0. (☞ p.82)

Taking Still Pictures ☞p.39

4
Taking Pictures

Shutter release button

Four-way controller

**OK** button
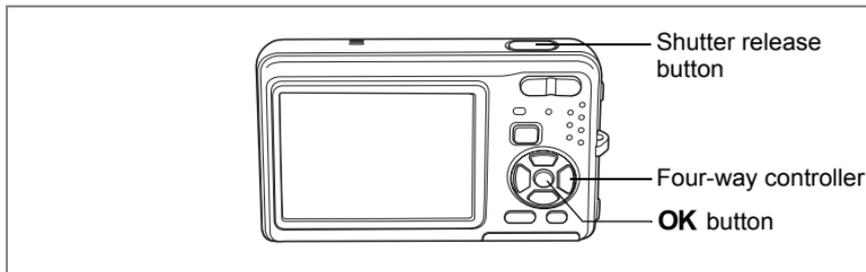
## Setting The Functions (Program Mode)

In P (Program mode), the camera automatically sets the shutter speed and aperture for taking still pictures. However, you can select other functions such as the flash mode and recorded pixels.

**1 Press the four-way controller (▼) in ✿ mode.**
The Capture Mode Palette appears.

**2 Use the four-way controller (▲▼◀▶) to select P (Program mode).**

**3 Press the OK button.**

**4 Set the functions you want to use.**
Refer to "Setting the Shooting Functions" (p.85 - p.104) for details of how to set the functions.

**5 Press the shutter release button halfway.**
The focus frame on the LCD monitor turns green if the subject is in focus.



**6 Press the shutter release button fully.**
The picture is taken.

memo    If a shooting mode other than P mode has been selected, select P mode from the Capture Mode Palette. (p.53)

Taking Still Pictures ☞p.39

4 Taking Pictures

63

Shutter release button
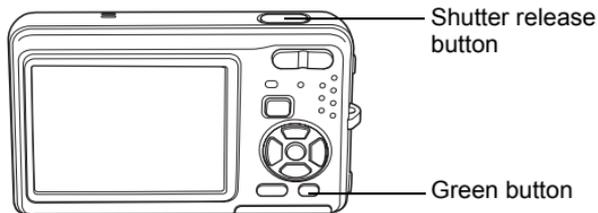
Green button

## Taking Pictures in the Basic Mode (Green Mode)

In the Green Mode, you can enjoy easy picture-taking using standard settings*, regardless of the settings in the [✿ Rec.Mode] menu.

**1  Press the Green button in ✿ mode.**

The camera switches to the Green Mode. Press the Green button again to return to the status before the Green Mode was selected.



**2  Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

**3  Press the shutter release button fully.**

The picture is taken.

\* The Green Mode settings are as shown below.

| Flash Mode | ⁴ₐ (Auto) |
| Drive Mode | □ (Standard) |
| Focus Mode | **AF** (Standard) |
| Information Display | Normal |
| Recorded Pixels | 8M |
| Quality Level | ★★ (Better) |
| White Balance | **AWB** (Auto) |
| Focusing Area | ⌞ ⌝ (Multiple) |
| Focus Limiter | □ (Off) |
| AE Metering | ▣ Multi-segment metering |
| Sensitivity | Auto 64-800 |
| EV Compensation | ±0.0 |
| Digital Wide | □ (Off) |
| Digital Zoom | ☑ (On) |
| Instant Review | 1sec |
| Sharpness | ▬▬▬ (Normal) |
| Saturation | ▬▬▬ (Normal) |
| Contrast | ▬▬▬ (Normal) |
| Date Imprint | □ (Off) |

Shutter release button

Four-way controller

**OK** button
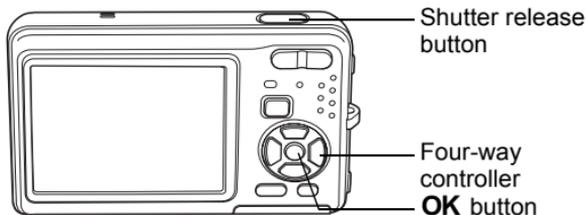
## Taking Pictures of Dark Scenes (Night Scene/Digital SR (Blur Reduction) Mode)

You can choose settings appropriate for taking pictures of dark scenes, such as nightscapes.

| 🌃 | Use this mode when taking pictures of night views. |
| (((🖐))) | Use this mode to take pictures indoors or in low light conditions. |

1 **Press the four-way controller (▼) in ▲ mode.**
The Capture Mode Palette appears.
2 **Use the four-way controller (▲ ▼ ◀ ▶) to select 🌃 (Night Scene) or (((🖐))) (Digital SR (Blur Reduction)).**
3 **Press the OK button.**
The shooting mode is selected and the camera returns to capture status.
4 **Press the shutter release button halfway.**
The focus frame on the LCD monitor turns green if the subject is in focus.
5 **Press the shutter release button fully.**
The picture is taken.

memo
• The shutter speed is slower when taking pictures of dark scenes.
• To prevent camera shake, use a tripod and the self-timer function. (p.74)
• In (((🖐))) mode, ISO sensitivity is automatically set to auto (64 to 3200). (p.96)

**66**

Shutter release button
Zoom/☒/ Q button
Four-way controller
**OK** button
**MENU** button
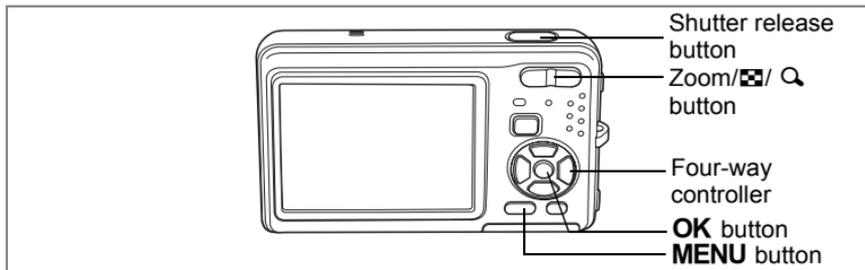
## Framing Your Pictures (Frame Composite)

In this mode you can take pictures using the frames stored in the camera.

1  **Press the four-way controller (▼) in ☐ mode.**
   The Capture Mode Palette appears.

2  **Use the four-way controller (▲▼◀▶) to select ☻ (Frame Composite).**

3  **Press the OK button.**
   A 9-frame display of the frame selection screen appears.

4  **Use the four-way controller (▲▼◀▶) to choose the frame you want to use.**
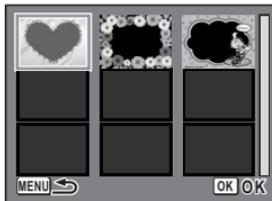
5  **Press the OK button.**
   The selected frame appears in single-image display. You can choose another frame using either of the following operations.
   • Use the four-way controller (◀▶) to choose a different frame.
   • Press the **MENU** button or ☒ on the Zoom/☒/Q button to return to the 9-frame display of the frame selection screen, and then perform Step 4 to choose a different frame.

6  **Press the OK button.**
   The frame appears on the screen.

7  **Press the shutter release button halfway.**
   The focus frame on the LCD monitor turns green if the subject is in focus.

8  **Press the shutter release button fully.**
   The picture is taken.

memo    In frame composite mode, recorded pixels is set to ③M (2048 × 1536).

Shutter release button

Four-way controller

**OK** button
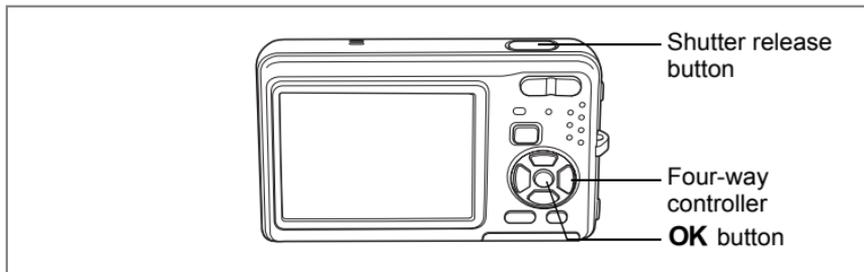
## Taking Pictures of People (Natural Skin Tone/Portrait)

In 🔮 or 🔮 mode, Face Recognition AF and Face Recognition AE are activated. Simply point the camera toward your subject's face and the camera automatically recognizes the location of the subject's face, adjusts the focus (using Face Recognition AF) and the exposure (using Face Recognition AE) and allows you to take a picture.

| 🔮 | Use this mode when you want to enhance the natural skin tone of the people in your pictures. |
|----|---------------------------------------------------------------------------------------------|
| 🔮 | Use this mode when taking pictures of people. |

**1 Press the four-way controller (▼) in ◻ mode.**
The Capture Mode Palette appears.

**2 Use the four-way controller (▲ ▼ ◄ ►) to select 🔮 (Natural Skin Tone) or 🔮 (Portrait).**

**3 Press the OK button.**
The shooting mode is selected and the camera returns to capture status.
When the location of the subject's face is recognized, a yellow focus frame appears on the LCD monitor at the location of the face (when multiple faces are recognized, the main face is indicated in yellow). As the subject moves, the size and location of the focus frame change to match the location of the subject's face.



Natural Skin Tone

Portrait

MENU Cancel    OK OK

**4 Press the shutter release button halfway.**
The focus frame on the LCD monitor turns green if the subject is in focus.

**5 Press the shutter release button fully.**
The picture is taken.

4 Taking Pictures
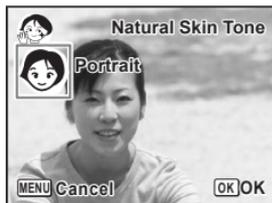
memo
- If the camera cannot recognize the location of the subject's face, the camera focuses using the normal Focusing Area (Multiple).
- Continuous Shooting and HS Cont. Shooting cannot be used in ☺ or ☻ mode.
- Face Recognition AF and Face Recognition AE may not work if the subject is wearing sunglasses or has part of the face covered or if the subject is not looking toward the camera.
- In ☺ or ☻ mode, AE metering is set to multi-segment metering.

4

Taking Pictures

Shutter release button

Four-way controller

**OK** button
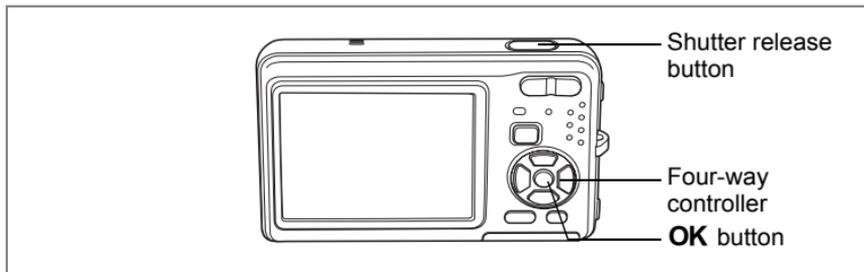
## Taking Pictures of Children (Kids Mode)

☺(Kids mode) is ideal for taking pictures of moving children. Also gives them a healthy look. "Face Recognition AF" and. "Face Recognition AE" are activated. When you point the camera at your subject's face, the camera automatically recognizes it, adjusting both focus and exposure.

| ☺ | Ideal for taking pictures of moving children. Also gives them a healthy look. |
|---|---|

### 1 Press the four-way controller (▼) in ✿ mode.

The Capture Mode Palette appears.

### 2 Use the four-way controller (▲ ▼ ◄ ►) to select ☺ (Kids mode).

### 3 Press the OK button.

When the location of the subject's face is recognized, a yellow focus frame appears on the LCD monitor at the location of the face (when multiple faces are recognized, the main face is indicated in yellow). As the subject moves, the size and location of the focus frame change to match the location of the subject's face.



### 4 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

### 5 Press the shutter release button fully.

The picture is taken.

memo
- Continuous Shooting and High Speed Continuous Shooting cannot be used in 😊 mode.
- Face Recognition AE may not work if the subject is wearing sunglasses or has part of the face covered or if the subject is not looking toward the camera.
- AE metering is set to multi-segment metering.
- The focus frame of the ≡◯ (Automatic Tracking AF) follows the movement of the subject while the shutter release button is pressed halfway when the location of the subject's face is not recognized.

Shutter release button

Four-way controller

**OK** button
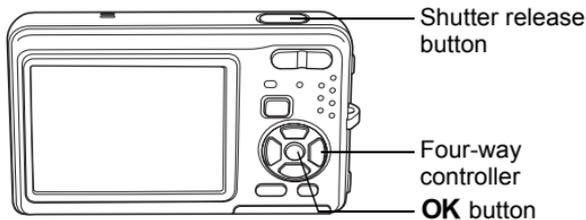
## Taking Pictures of Your Pet (Pet Mode)

Use this mode to keep your moving pet in focus while you take the picture and capture the color of your pet's coat. Choose the appropriate icon depending on what color your pet is (closer to black or white or in between).

**1** **Press the four-way controller (▼) in � mode.**
The Capture Mode Palette appears.

**2** **Use the four-way controller (▲ ▼ ◄ ►) to select ⬥ (Pet).**

**3** **Press the OK button.**
The Pet mode selection screen appears.

**4** **Use the four-way controller (▲ ▼) to select ⬥, ⬥, ⬥, ⬥, ⬥ or ⬥.**
There are two types of icons: a cat and dog icon.

(Choosing either the cat or dog icon does not affect the resulting picture. Choose whichever you prefer.)
Choose an icon (white, gray, or black) whose tone best matches your pet's coat or fur.

**5** **Press the OK button.**
The Pet mode is selected and the camera returns to capture status.

**6** **Press the shutter release button halfway.**
The focus frame on the LCD monitor turns green if the subject is in focus.
The focus frame follows the pet while the shutter release button is pressed halfway.

# 7 Press the shutter release button fully.

The picture is taken.

memo

In $\mathbb{N}$ mode, AE metering is set to multi-segment metering.

Shutter release button

Four-way controller
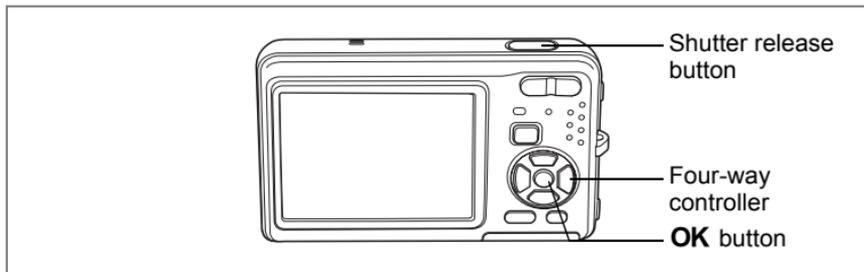
**OK** button

## Using the Self-timer

In Self-timer mode, the picture is taken ten seconds or two seconds after the shutter release button is pressed.
Stabilize the camera with a tripod when taking a picture with the self-timer.

| $\circlearrowleft$ | Use this mode when you want to be included in a group picture. The picture is taken approximately ten seconds after the shutter release button is pressed. |
|---|---|
| $\circlearrowleft_{2s}$ | Use this mode to avoid camera shake. The picture is taken approximately two seconds after the shutter release button is pressed. |

**1 Press the four-way controller (▲) in ✿ mode.**

**2 Use the four-way controller (◄ ► ▼) to select $\circlearrowleft$ or $\circlearrowleft_{2s}$ and press the OK button.**

The camera is ready to take the picture using the self-timer.



Drive Mode
Self-timer

MENU Cancel        OK OK

**3 Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

**4 Press the shutter release button fully.**

The picture is taken ten seconds or two seconds later.

⚠️ Caution: Focusing may be compromised if you move the camera while the self-timer lamp is blinking when taking still pictures.

memo
- In 🎥 mode, recording will start after ten seconds (or two seconds).
- Press the shutter release button halfway while the self-timer is engaged to stop the countdown and press fully to restart the countdown.
- $\circlearrowleft_{2s}$ cannot be selected while ● is in default setting. Select $\circlearrowleft_{2s}$ in another shooting mode and then switch the shooting mode to ●.

Shutter release button

Four-way controller
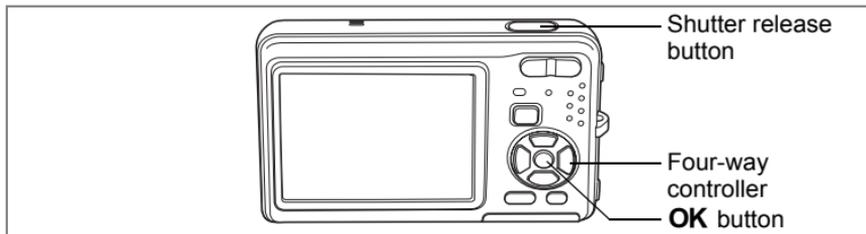
**OK** button

## Taking a Series of Pictures (Continuous Shooting Mode/High Speed Continuous Shooting Mode)

In this mode, pictures are taken continuously for as long as the shutter release button is pressed.

| | | |
|---|---|---|
| 🔲 | Continuous Shooting | Each time a picture is taken, the image is saved in the memory before the next image is taken. The higher the image quality, the longer the interval between shots. |
| 🔲 | HS Cont. Shooting | Pictures are taken continuously at a speed of 4 frames per second until the buffer memory is full. |

**1** **Press the four-way controller (▲) in ✿ mode.**

**2** **Use the four-way controller (◀ ▶) to select 🔲 (Continuous Shooting) or 🔲 (HS Cont. Shooting) and press the OK button.**

The camera is ready to take a series of pictures.

**3** **Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

**4** **Press the shutter release button fully.**

Pictures are taken continuously for as long as you keep the shutter release button pressed.

- The flash will not discharge in Continuous Shooting and High Speed Continuous Shooting mode.
- The continuous shooting function is not available in 𝐏𝐈𝐂𝐓, 🖼, 🏛, ♫, 🌄, ⛷, 🌅, ⚫, ▯ mode.

- You can continue shooting until the memory capacity of the SD Memory Card or built-in memory is full.
- The interval of continuous shooting will vary according to the Recorded Pixels and Quality Level settings.
- The number of recorded pixels is fixed at 3M in high speed continuous shooting mode.
- The focus, exposure and white balance are locked with the first image.

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Zoom/♦♦♦/♦ button

Four-way controller

**OK** button

**MENU** button
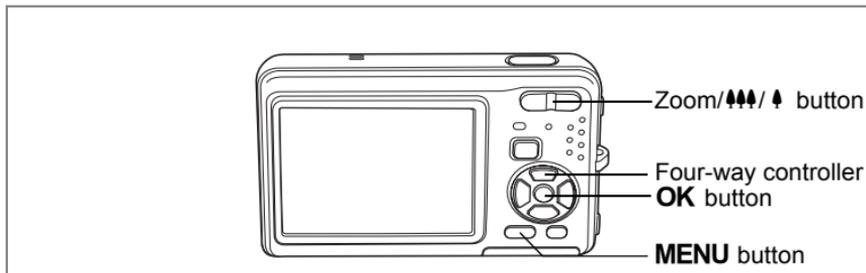
## Using the Zoom

You can use the zoom to change the captured area.

**1  Press the Zoom/♦♦♦/♦ button in ❑ mode.**

Zoom button (♦♦♦) : Diminishes the subject (Wide).

Zoom button (♦) : enlarges the subject. When you press and hold the button, the camera automatically switches from optical zoom to intelligent zoom. Once the button is released and pressed again, the camera switches to Digital Zoom.
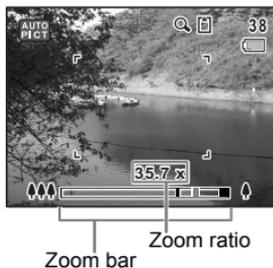


Zoom bar    Zoom ratio

The zoom bar is displayed as follow.

Zoom in with high image quality.

Zoom in with some degree of image deterioration.



Optical zoom range*1    Intelligent Zoom range*2    Digital Zoom range
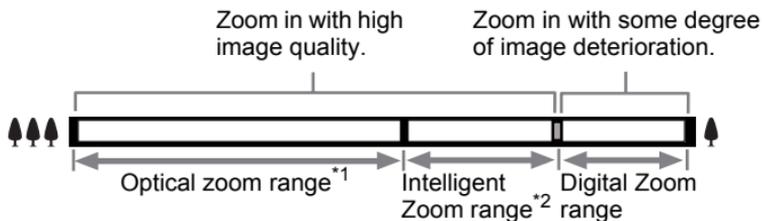
*1 You can zoom in maximum 7x optically.
*2 The Intelligent Zoom range differs depending on the recorded pixels. See the following table.

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### Recorded pixels and the maximum zoom ratio

| Recorded pixels | Intelligent Zoom | Digital Zoom |
|---|---|---|
| 8M | Not Available (7× optical zoom available) | Equivalent to approx. 35.7× |
| 5M | Approx. 8.1× | |
| 4M | Approx. 8.8× | |
| 3M | Approx. 9.9× | |
| 2M | Approx. 11.2× | |
| 1024 | Approx. 22.3× | |
| 640 | Approx. 35.7× (Same as 35.7× Digital Zoom) | |

memo
- You are recommended to use a tripod to prevent camera shake when taking pictures at a high magnification rate.
- Pictures taken in the digital zoom range appear grainier than pictures taken in the optical zoom range.
- If you use the optical zoom when shooting with 🎥, the sound of the lens moving may be audible in the recorded sound, depending on the shooting environment.
- Intelligent Zoom is not available under the following conditions.
  - When Digital Zoom is set to Off.
  - When the recorded pixels is 8M. (7x optical zoom available)
  - In 🎥 mode
- The image enlarged using Intelligent Zoom may appear rough on the LCD monitor. This does not affect the quality of image.
- Only the Digital Zoom is available in 🎥 mode. Set Movie SR to Off in [🗂 Rec.Mode] menu to use the Digital Zoom in Movie mode. (p.113)

#### Setting the Digital Zoom

The digital zoom is set to ☑ (On) in the default settings. To take pictures using only the optical zoom, set the digital zoom to □ (Off).

**1 Press the MENU button in ✿ mode.**

The [✿ Rec.Mode] menu appears.

**2 Use the four-way controller (▲▼) to select [Digital Zoom].**

**3 Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

The selected setting is saved.

**4 Press the MENU button.**

The setting is complete and the camera returns to capture status.

```
┌─────────────────────────┐
│ ✿ Rec.Mode      2/3  🔧 │
│ EV Compensation    ±0.0  │
│ Movie                    │
│ Digital Wide        ☑    │
│ Digital Zoom      ◀ ☑ ▶  │
│ Instant Review    1sec   │
│ Memory                   │
│ MENU Exit                │
└─────────────────────────┘
```
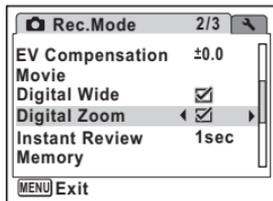
Saving the Digital Zoom Function Setting ☞p.105

Zoom/♦♦♦/ ♦ button

Four-way controller

Green button

**OK** button

**MENU** button

## Using the Digital Wide Function

Capturing a Wide Image Using the Digital Wide Function
Digital wide can stitch two pictures taken into a 35 mm film conversion (equivalent to approx. 28 mm).

### 1  Press the ♦♦♦ side of the Zoom/♦♦♦/ ♦ button when in ✿ mode.

Press and hold the ♦♦♦ side of the Zoom/ ♦♦♦/ ♦ button to set the zoom to the widest position, release the button, and then press it again.

**Enter the Digital Wide mode?**

**Digital Wide**
**Cancel**

OK OK

### 2  Press the four-way controller (▲).

### 3  Press the OK button.

The camera enters the digital wide mode and an explanation is displayed for approx. 5 sec. in the center of the screen.
Turn the camera 90º counterclockwise and align your first picture.

Composites two images. Overlap the background and the guide on the left of the screen for the 2nd shot.

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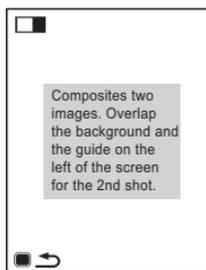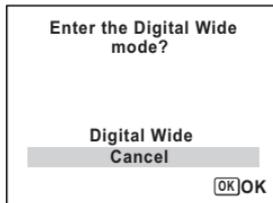
### 4 Press the shutter release button.

The first captured image is saved, and the shooting screen for the second image is displayed. Overlap the image on the preview guide on the left of the screen to compose your picture.

If you want to stop capturing images in the digital wide mode, go to step 6.
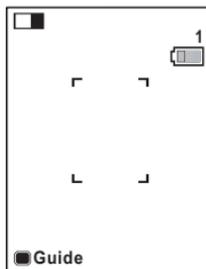
### 5 Press the shutter release button.

The combined first image and second image are displayed on the LCD monitor for one second (Instant Review), and then saved to the built-in memory or SD Memory Card.
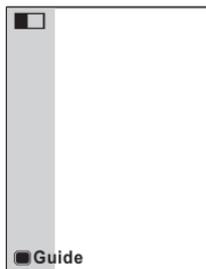
- For less distortion when taking the second picture, turn the camera to overlap the background and the preview guide on the left of the screen.
- Some distortion may result from moving objects, repeating patterns, or if nothing exists when overlapping the first and second picture on the preview guide.

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Taking Pictures

**6** **Press the MENU button, OK button, or Zoom/ 444/ 4 button.**

**7** **Press the four-way controller (▲).**

**8** **Press the OK button.**

The Digital Wide mode stops.

```
Exit the Digital Wide
       mode?


         Exit
        Cancel
                      OK  OK
```
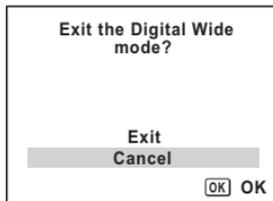
#### Setting the Digital Wide Function

The Digital Wide function is set to ☑ (On) in the default settings. Use the
🗖 mode to set whether the camera enters the Digital Wide mode when
the 444 side of the Zoom/444/ 4 button is pressed.

**1** **Press the MENU button in 🗖 mode.**

[🗖 Rec.Mode] appears.

**2** **Press the four-way controller (▲ ▼) to select [Digital Wide].**
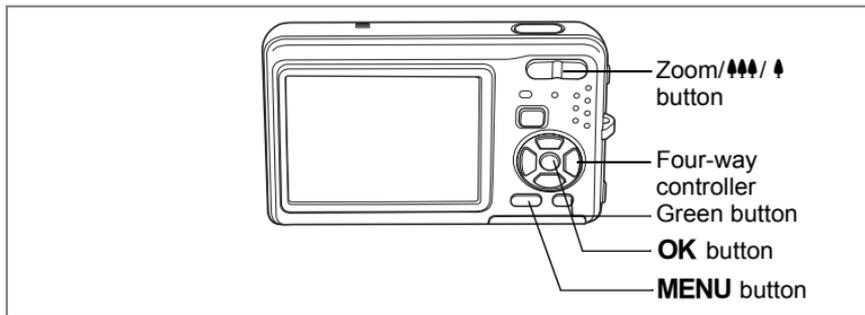
**3** **Use the four-way controller (◄ ►) to select ☑ (On) or □ (Off).**

The selected setting is saved.

**4** **Press the MENU button.**

The setting is complete and the camera
returns to capture status.

```
🗖 Rec.Mode      2/3
EV Compensation    ±0.0
Movie
Digital Wide     ◄ ☑   ►
Digital Zoom         ☑
Instant Review     1sec
Memory

MENU Exit
```

4 Taking Pictures

Four-way controller

**MENU**

MENU button

| 🔲 Rec.Mode | 1/3 ▶ 🔧 |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◙ |
| Sensitivity | AUTO 800 |
| MENU Exit | |
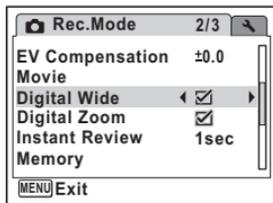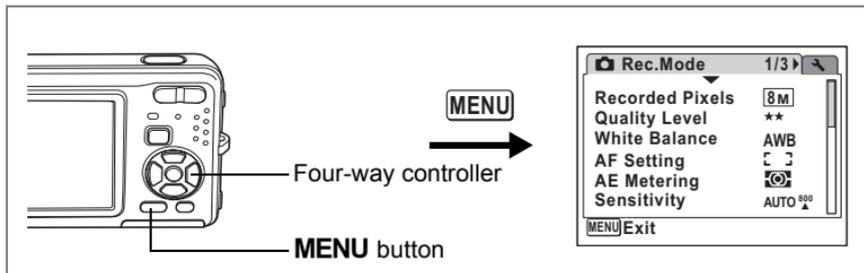
## Setting the Exposure (EV Compensation)

You can adjust the overall brightness of the picture.
Use this function to take pictures that are intentionally overexposed or underexposed.

### 1 Press the MENU button in 🔲 mode.

The [🔲 Rec.Mode] menu appears.

### 2 Use the four-way controller (▲ ▼) to select [EV Compensation].

### 3 Use the four-way controller (◀ ▶) to select the EV value.

| 🔲 Rec.Mode | 2/3 🔧 |
|---|---|
| EV Compensation | ◀ ±0.0 ▶ |
| Movie | |
| Digital Wide | ☑ |
| Digital Zoom | ☑ |
| Instant Review | 1sec |
| Memory | |
| MENU Exit | |

The selected EV value is saved.

To brighten, select a positive (+) value. To darken, select a negative (–) value.

You can choose the EV setting in the range of –2.0 EV to +2.0 EV in 1/3 EV steps.

### 4 Press the MENU button.

The setting is complete and the camera returns to capture status.
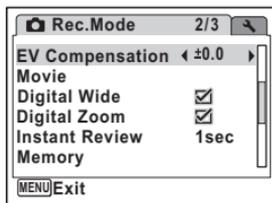
memo
- If you use the EV compensation function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)
- When the histogram is displayed, bright portions and dark portions are indicated on the LCD monitor, enabling you to check the exposure. (p.84)
- The EV compensation function cannot be used in 🅰🆄🆃🅾/PICT or ● mode.

Saving the EV Compensation Value ☞p.105

Taking Pictures

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# Displaying Shooting Information in Capture Mode

The LCD monitor display changes in the following sequence each time you press the **OK/DISPLAY** button: Normal Display, Histogram + Info, No Info, Backlight Off.

For details of each display mode, refer to "Monitor Indications" (p.18).

memo
- All the camera buttons function as normal even when the backlight is off. Press the shutter release button to take pictures as normal.
- ⚠ appears when camera shake is likely to occur. To prevent camera shake, use a tripod and the self-timer function. (p.74)
- In ● mode, you cannot change the information displayed on the LCD monitor by pressing the **OK/DISPLAY** button.

**Normal Display**

**Histogram + Info**

OK

1/250
F3.3    +1.0  DATE    01/01/2007
                              14:25

OK                    OK

**Backlight Off**

**No Info**

OK

1/250
F3.3
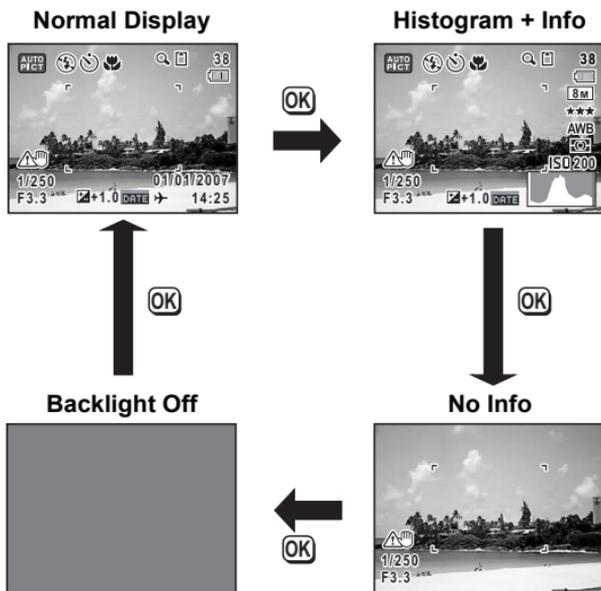
#### Using the Histogram

A histogram shows the brightness distribution of an image. The horizontal axis represents brightness (dark at the left and bright at the right) and the vertical axis represents the number of pixels.

The shape of the histogram before and after shooting tells you whether the brightness and



**Number of pixels→**

**(Dark) ←Brightness→ (Bright)**

**Dark portions**      **Bright portions**

contrast are correct or not, and lets you decide if you need to use EV compensation and take the picture again.
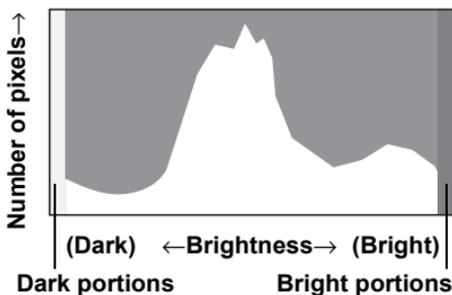
Setting the Exposure (EV Compensation) ☞p.82

#### Understanding Brightness

If the brightness is correct, the graph peaks in the middle. If the image is too dark, the peak is on the left side, and if it is too bright, the peak is on the right side.

**Dark image**      **Correct image**      **Bright image**



When the image is too dark, the part to the left is cut off (dark portions) and when the image is too bright, the part to the right is cut off (bright portions).

Bright portions blink red on the LCD monitor and dark portions blink yellow.

Displaying Shooting Information in Capture Mode ☞p.83
Displaying Shooting Information in Playback Mode ☞p.120

#### Understanding Contrast

The graph peaks gradually for images in which contrast is balanced. The graph peaks on both sides but sinks in the middle for images with a large difference in contrast and low amounts of mid-level brightness.

4 **Taking Pictures**

# Setting the Shooting Functions



Four-way controller

**OK** button
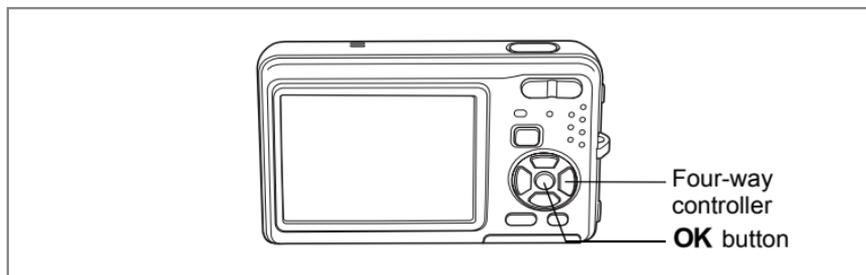
## Selecting the Focus Mode

**Focus Mode**

| | | |
|---|---|---|
| **AF** | Standard | Use this mode when the distance to the subject is 40 cm (16 in.) or more. The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway. |
| ❀ | Macro | This mode is used when the distance to the subject is approx. 8 cm to 50 cm (3.2 in. to 24 in.). The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway. |
| **PF** | Pan Focus | This mode is used when you ask someone to take pictures for you, or when taking pictures of the scenery through the window of a car or train. The entire picture, from the front to the back, is focused. |
| ▲ | Infinity | This mode is used for taking distant objects. The flash is set to ⊛ (Flash Off). |
| **MF** | Manual Focus | This mode lets you adjust the focus manually. |

### 1 Press the four-way controller (▶) in ✿ mode.

The focus mode changes each time the button is pressed. You can also change the setting using the four-way controller (▲ ▼).

### 2 Press the OK button.

The Focus Mode setting is saved and the camera returns to capture status.

4 Taking Pictures
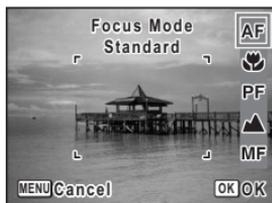
memo
- In ● mode, you can only select **AF**, **PF** and ♥.
- If you select something other than, **PF** or ▲ for the focus mode when shooting with 🎥 the sound of the camera focusing may be audible in the recorded sound, depending on the shooting environment.
- When shooting with **AF** selected, if the subject is closer than 40 cm, the camera automatically focuses from 8 cm (when the focus limit is off).
- When shooting with ♥ selected, if the subject is further than 50 cm away, the camera automatically focuses to infinity (when the focus limit is off).

**Manual Focus**

The procedure for setting the focus manually (**MF**) is described below.

**1   Press the four-way controller (▶) in ✿ mode.**

**2   Use the four-way controller (▶) to select MF and press the OK button.**
The central portion of the image is magnified to fill the screen of the LCD monitor when focusing.
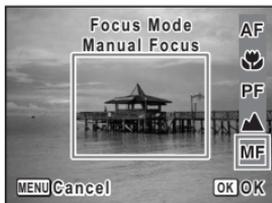
**3   Press the four-way controller (▲ ▼).**
The **MF** indicator appears on the LCD monitor to indicate the approximate distance to the subject. Use the four-way controller (▲ ▼) to adjust the focus using the indicator as a guide.
- ▲ : for distant focus
- ▼ : for closer focus

**MF** indicator

**4   Press the OK button.**
The focus is fixed and the camera returns to capture status.
In addition, the focus position is fixed five seconds after you remove your finger from the four-way controller (▶).
After the focus is fixed, you can press the four-way controller (▶) again to display the **MF** bar and readjust the focus.

memo   To switch from **MF** to another focus mode, press the four-way controller (▶) while the **MF** bar is displayed.

Caution   Capture mode and drive mode cannot be changed while the **MF** bar is displayed.

Four-way controller

OK button
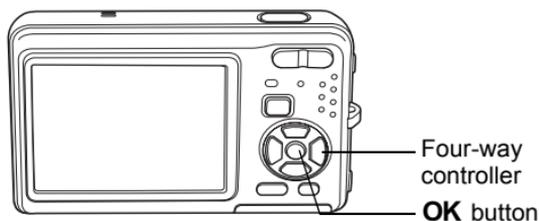
## Selecting the Flash Mode

### Flash Modes

| | | |
|---|---|---|
| $\frac{1}{4}$A | Auto | The flash discharges automatically depending on the light conditions. |
| ⑤ | Flash Off | The flash will not discharge, regardless of the brightness. Use this mode to take pictures where flash photography is prohibited. |
| $\frac{1}{4}$ | Flash On | The flash discharges regardless of the brightness. |
| $\frac{1}{4}$A | Auto + Red-eye | This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash discharges automatically. |
| $\frac{1}{4}$ | Flash On + Red-eye | This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash will discharge regardless of the light conditions. |
| SOFT$\frac{1}{4}$ | Soft Flash | This mode reduces the intensity of the flash so that the flash is not too bright even when fired at close range. The flash will discharge regardless of the light conditions. |

memo
- The flash will not discharge (⑤ Flash Off) in 🎥 mode, or when the drive mode is set to 🔳 or 🔳, or the focus mode is set to ▲.
- A pre-flash discharges when using the red-eye reduction function.
- In ● mode, you can only select $\frac{1}{4}$A or ⑤.
- In 🔳 mode, you cannot select $\frac{1}{4}$A and $\frac{1}{4}$A.

Caution
Using the flash when capturing images at a close distance may cause irregularities in the image due to the light distribution.

## 1 Press the four-way controller (◀) in ✿ mode.

The flash mode changes each time the button is pressed. You can also change the setting using the four-way controller (▲ ▼).

## 2 Press the OK button.

The camera returns to capture status with the selected flash mode.

[About the red-eye phenomenon]

Taking pictures using the flash may cause the subject's eyes to appear red in the resulting picture. This phenomenon occurs when the light from the flash is reflected in the subject's eyes. It can be reduced by illuminating the area around the subject or moving closer to the subject and zooming out to a wider angle. Setting the flash mode to ⚘ (Auto + Red-eye) or ⚘ (Flash On + Red-eye) is also an effective way of reducing red eyes.

If the subject's eyes appear red despite such precautions, they can be corrected by the red-eye compensation function (p.143).

Saving the Flash Mode ☞p.105

■ Rec.Mode        1/3 ▶ ⚲
Recorded Pixels      8M
Quality Level        ★★
White Balance        AWB
AF Setting           [ ]
AE Metering          ◉
Sensitivity          AUTO 800
MENU Exit
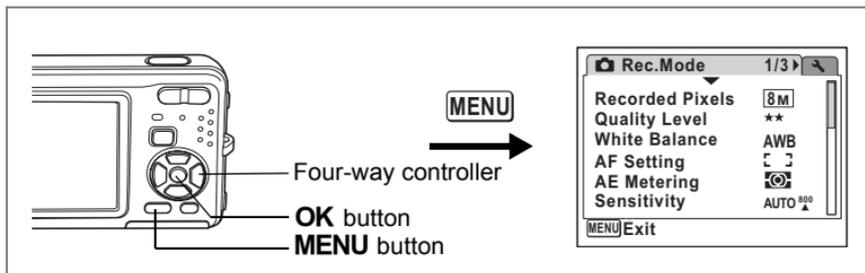
## Selecting the Recorded Pixels

You can choose from seven recorded pixels settings for still pictures. The larger your recorded pixels, the clearer the details will appear when you print your picture. As the quality of the printed picture also depends on the image quality, exposure control, resolution of the printer and other factors, you do not need to select more than the required number of recorded pixels. 2M (1600×1200) is adequate for making postcard-size prints. The more pixels there are, the larger the picture and the bigger the file size. The data volume also varies depending on the quality level setting (p.91).

**Recorded Pixels**

| Recorded Pixels | | Use |
|---|---|---|
| 8M 3264×2448 | Clearer | For printing high quality photos or A4-size pictures or larger, or editing images on a PC. |
| 5M 2592×1944 | | |
| 4M 2304×1728 | | |
| 3M 2048×1536 | | |
| 2M 1600×1200 | | For making postcard-size prints. |
| 1024 1024× 768 | | |
| 640 640× 480 | | For posting on a website or attaching to e-mail. |

**1   Press the MENU button in ■ mode.**

The [■ Rec.Mode] menu appears.

**2   Use the four-way controller (▲▼) to select [Recorded Pixels].**

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Taking Pictures

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## 3 Press the four-way controller (▶).

A pull-down menu appears.

## 4 Use the four-way controller (▲▼) to change the number of recorded pixels.

## 5 Press the OK button.

The Recorded Pixels setting is saved.

## 6 Press the MENU button.

The camera returns to capture status with the current setting.

| Storage Capacity | 12 |
|---|---|
| **Recorded Pixels** ◀ | 8M |
| Quality Level | 5M |
| White Balance | 4M |
| AF Setting | 3M |
| AE Metering | 2M |
| Sensitivity | 1024 |
| | 640 |
| MENU Cancel | OK OK |

memo
- When shooting mode is set to 🖤, the number of recorded pixels is set to 3M and quality level is set to ★★.
- When drive mode is set to 🖳, the number of recorded pixels is set to 3M.
- The number of recorded pixels for Images captured in the Digital Wide Mode is fixed to 5M. (However, the number of recorded pixels will be 3M if a second picture is not taken.)
- If you use the [Recorded Pixels] function frequently, you can save time by assigning it to the Fn Setting of Green button. (p.57)

Recorded Pixels and Quality Level of Still Pictures ☞p.29

```
                                                    ┌─────────────────────────┐
                                                    │ ◘ Rec.Mode        1/3 ▸ 🔍│
                                            [MENU]   │  ▼                       │
                                          ──────▶    │ Recorded Pixels    8M    │
            Four-way controller                      │ Quality Level      ★★    │
                                                     │ White Balance      AWB   │
            OK button                                │ AF Setting         [ ]   │
            MENU button                              │ AE Metering        ◙     │
                                                     │ Sensitivity    AUTO 800  │
                                                     │ MENU Exit                │
                                                     └─────────────────────────┘
```
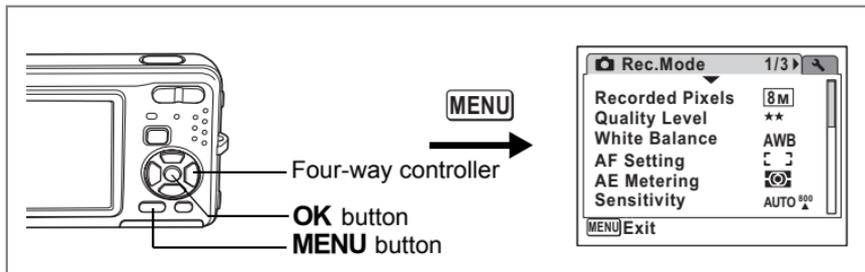
## Selecting the Quality Level

You can select the quality (compression rate) of still pictures.

The more stars, the lower the compression rate and the clearer the picture, but the file size becomes larger. The recorded pixels setting also affects the file size (p.89).

**Quality Level**

| ★★★ | Best | Lowest compression rate. Suitable for photo prints. |
|------|--------|----------------------------------------------------|
| ★★ | Better | Standard compression rate. Suitable for viewing the image on a computer screen. |
| ★ | Good | Highest compression rate. Suitable for posting on a website or attaching to e-mail. |

**1  Press the MENU button in ◘ mode.**

The [◘ Rec.Mode] menu appears.

**2  Use the four-way controller (▲ ▼) to select [Quality Level].**

**3  Press the four-way controller (▶).**

A pull-down menu appears.

**4  Use the four-way controller (▲ ▼) to change the quality level.**

**5  Press the OK button.**

The Quality Level setting is saved.

```
┌─────────────────────────┐
│ ['] Storage Capacity  13 │
│                          │
│ Recorded Pixels    8M    │
│ Quality Level   ◄  ★★★   │
│ White Balance      ★★    │
│ AF Setting         ★     │
│ AE Metering        ◙     │
│ Sensitivity    AUTO 800  │
│ MENU Cancel      OK OK    │
└─────────────────────────┘
```

**6  Press the MENU button.**

The camera returns to capture status with the current setting.
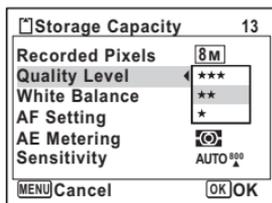
memo
- If you use the [Quality Level] function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)
- Quality level is set at ★★ when shooting mode is set to 🎬.

Recorded Pixels and Quality Level of Still Pictures ☞p.29

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**Taking Pictures**

MENU

Four-way controller

OK button

MENU button

| | Rec.Mode | 1/3 ▶ |
|---|---|---|
| Recorded Pixels | | 8M |
| Quality Level | | ★★ |
| White Balance | | AWB |
| AF Setting | | [ ] |
| AE Metering | | ◙ |
| Sensitivity | | AUTO 800 ▲ |

MENU Exit
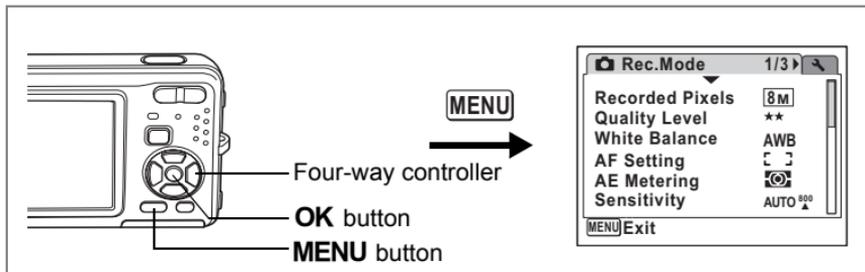
## Adjusting the White Balance

You can take pictures in natural colors by adjusting the white balance
according to the light conditions at the time of shooting.

### White Balance

| AWB | Auto | The camera adjusts the white balance automatically. |
|---|---|---|
| ☀ | Daylight | Use this mode when taking pictures outside in sunlight. |
| ◠ | Shade | Use this mode when taking pictures outside in the shade. |
| 涂 | Tungsten Light | Use this mode when taking pictures under electric or other tungsten light. |
| 㳀 | Fluores. Light | Use this mode when taking pictures under fluorescent light. |
| 品 | Manual | Use this mode when adjusting the white balance manually. |

memo  Set another white balance if you are not satisfied with the color
      balance of pictures taken with white balance set to AWB (Auto).

**1**  Press the MENU button in ▢ mode.
The [▢ Rec.Mode] menu appears.

**2**  Use the four-way controller (▲ ▼) to select [White
Balance].

**3**  Press the four-way controller (▶).
The White Balance screen appears.

**4**  Use the four-way controller (▲ ▼)
to change the setting.

| White Balance |
|---|
| AWB Auto |

MENU Cancel    OK OK

## 5 Press the OK button.

The White Balance setting is saved.

## 6 Press the MENU button.

The camera returns to capture status with the current setting.
Refer to "Manual Setting" below for instructions on adjusting the white balance manually.

memo | If you use the [White Balance] function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)

Saving the White Balance ☞p.105

### Manual Setting

Have a blank sheet of white paper or similar material ready.

## 1 In the White balance screen, use the four-way controller (▲ ▼) to select ⬚ (Manual).

## 2 Point the camera at the blank sheet of paper or other material so that it fills the frame displayed in the center of the screen.

**White Balance**

AWB

SHUTTER Adjust

MENU Cancel    OK OK

## 3 Press the shutter release button fully.
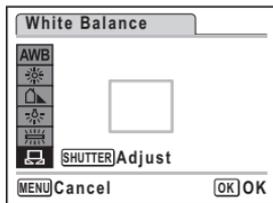
The white balance is automatically adjusted.

## 4 Press the OK button.

The setting is saved and the screen returns to the [✿ Rec.Mode].

## 5 Press the MENU button.

The camera returns to capture status.

4 Taking Pictures
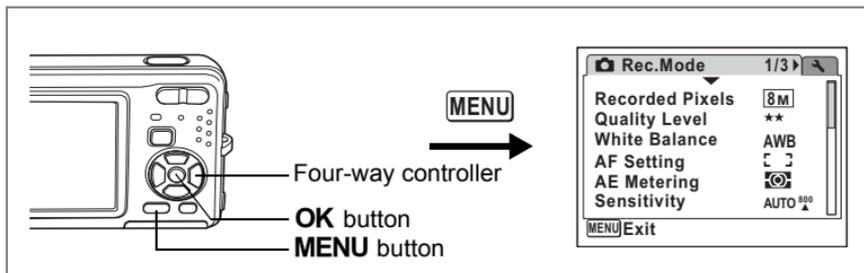
## Setting the AE Metering

You can set the area of the screen where the brightness is metered to determine the exposure.

**AE metering**

| | | |
|---|---|---|
|  | Multi-segment metering | The camera divides the image into 256 areas, meters the brightness and determines the exposure. |
|  | Center-weighted metering | The camera takes a reading of the overall brightness of the picture with the center of the image having more influence on the exposure. |
|  | Spot AE metering | The camera determines the exposure by metering the brightness only at the center of the image. |

**1** Press the MENU button in ■ mode.

The [■ Rec.Mode] menu appears.

**2** Use the four-way controller (▲▼) to select [AE Metering].

**3** Press the four-way controller (▶).

A pull-down menu appears.

**4** Use the four-way controller (▲▼) to select the AE Metering setting.

**5** Press the OK button.

The AE Metering setting is saved.



**6** Press the MENU button.

The camera returns to capture status with the current setting.

4 **Taking Pictures**
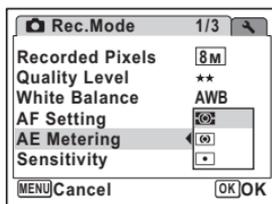
memo
- When the shutter release button is pressed halfway, the brightness is metered and the exposure is determined.
- When the subject is outside the focusing area and you want to use spot AE metering, aim the camera at the subject and press the shutter release button halfway to lock the exposure, then compose your picture again and press the shutter release button fully.
- If you use the [AE Metering] function frequently, you can save time by assigning it to the Green button. (p.57)
- In 🅰🆄🆃🅾, 🎥, 🏔, 🎆, 🏖, 🐾, 🏞, ◉, 🍴, 🌊 or ☼ mode, AE metering is set to multi-segment metering.

Saving the AE Metering ☞p.105

Four-way controller

OK button
MENU button

| **Rec.Mode** | 1/3 |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Exit
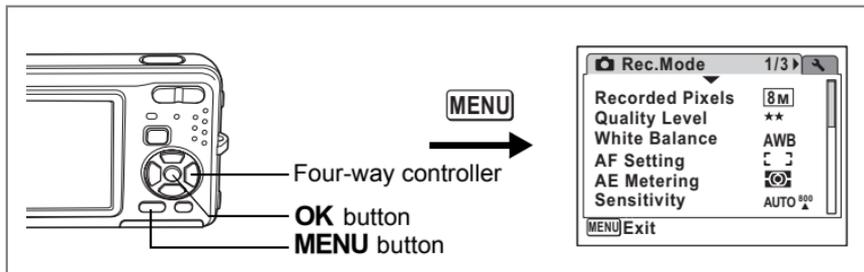
## Setting the ISO Sensitivity

You can select the ISO sensitivity to suit the brightness of the surroundings.

**ISO Sensitivity**

| AUTO | The sensitivity is automatically adjusted in the range set in the procedures described in "Setting Automatic Sensitivity" (p.97). |
|---|---|
| 64 | |
| 100 | • The lower the ISO sensitivity, the less noise that affects the image. The shutter speed will be slower in low light conditions. |
| 200 | |
| 400 | • Higher ISO sensitivity settings use faster shutter speeds in low light conditions to reduce camera shake, but the image may be affected by noise. |
| 800 | |
| 1600 | |
| 3200 | |

**1  Press the MENU button in ✿ mode.**

The [✿ Rec.Mode] menu appears.

**2  Use the four-way controller (▲ ▼) to select [Sensitivity].**

**3  Press the four-way controller (▶).**

A pull-down menu appears.

**4  Use the four-way controller (▲ ▼) to change the ISO sensitivity.**

**5  Press the OK button.**

The ISO sensitivity setting is saved.

| **Rec.Mode** | 1/3 |
|---|---|
| | AUTO 800 |
| Recorded Pixels | 64 |
| Quality Level | 100 |
| White Balance | 200 |
| AF Setting | 400 |
| AE Metering | 800 |
| Sensitivity | 1600 |
| | 3200 |

MENU Cancel    OK OK

**6  Press the MENU button.**

The camera returns to capture status with the current setting.
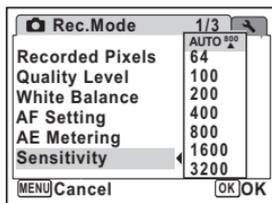
memo
- When you set the shooting mode to 《△》, the AUTO range is set to 64-3200.
- If you use the [Sensitivity] function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)

Saving the ISO sensitivity ☞p.105

### Setting Automatic Sensitivity

You can choose an automatically adjusted range of ISO sensitivity from among six ranges: 64 to 100, 64 to 200, 64 to 400, 64 to 800, 64 to 1600 and 64 to 3200.
The initial setting for the AUTO range is ISO 64 to 800.

**1 Press the MENU button in ✿ mode.**
The [✿ Rec. Mode] menu appears.

**2 Use the four-way controller (▲▼) to select [Sensitivity].**

**3 Press the four-way controller (▶).**
A pull-down menu appears.

**4 Use the four-way controller (▲▼) to select [AUTO].**

**5 Press the four-way controller (▶).**
The ISO Correction in AUTO screen appears.

**6 Use the four-way controller (▲▼◀▶) to choose an ISO sensitivity range.**

**7 Press the OK button twice.**
The ISO sensitivity range setting is saved.

**8 Press the MENU button.**
The camera returns to capture status with the current setting.

## Setting the Autofocus Conditions

You can set various conditions for autofocus.

### Setting the Focusing Area

You can change the autofocus area (Focusing Area).

**Focusing Area**

| | | |
|---|---|---|
| ⁅ ⁆ | Multiple | Normal autofocus area |
| ⁅⁆ | Spot | The autofocus area becomes smaller. |
| ≣⟨⟩ | Automatic Tracking AF | Keeps moving subjects in focus. |

**1  Press the MENU button in ◻ mode.**
The [◻ Rec.Mode] menu appears.

**2  Use the four-way controller (▲ ▼) to select [AF Setting].**

**3  Press the four-way controller (▶).**
The AF Setting screen appears.

**4  Use the four-way controller (▲ ▼) to select [Focusing Area].**

**5  Press the four-way controller (▶).**
A pull-down menu appears.

**6  Use the four-way controller (▲ ▼) to change the AF setting.**
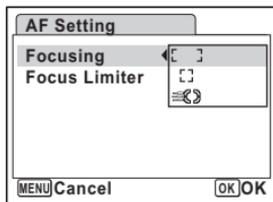
## 7 Press the OK button.

The AF Setting is saved.

## 8 Press the MENU button twice.

The camera returns to capture status with the current setting.

memo
- In 🔲 mode, [Focusing Area] can only be set to [ ] (Multiple) or [ ] (Spot).
- In ᴬᵁᵀᴼᴘɪᴄᴛ, 🔅 and 🌙 mode, [Focusing Area] is set to [ ] (Multiple).
- In 🙂 mode, [Focusing Area] is fixed to ≡❰❱.
- If you use the [Focusing Area] function frequently, you can save time by assigning it to the Fn Setting of Green button. (p.57)

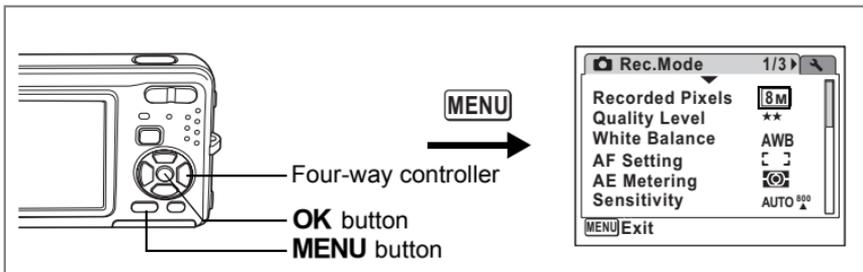### Setting the Focus Limiter

You can limit the lens focusing range according to the conditions.
Set the [Focus Limiter] to ☑ (On) to limit the focus to far distances from normal range during normal shooting and to close distances during macro shooting. This enables faster focusing.

## 1 Press the MENU button in ◻ mode.

The [◻ Rec.Mode] menu appears.

## 2 Use the four-way controller (▲▼) to select [AF Setting].

## 3 Press the four-way controller (▶).

The AF Setting screen appears.

## 4 Use the four-way controller (▲▼) to select [Focus Limiter].

## 5 Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).

The Focus Limiter setting is saved.

```
AF Setting
Focusing Area    [ ]
Focus Limiter  ◀ ☑      ▶



MENU ⤴
```

## 6 Press the MENU button twice.

The camera returns to capture status with the current setting.

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Taking Pictures

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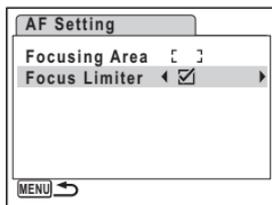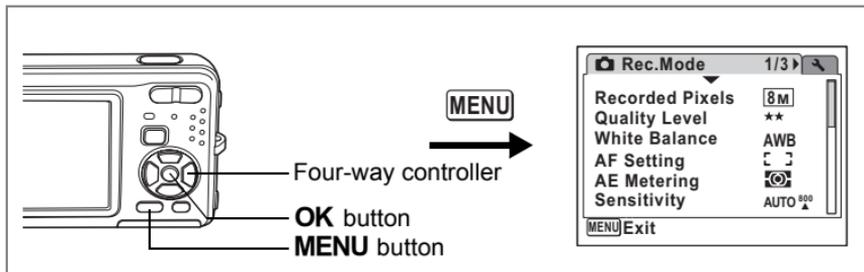
## Setting the Instant Review Time (Instant Review)

You can choose the Instant Review time (the length of time the image is displayed immediately after capture) from 0.5sec, 1sec, 2sec, 3sec, 5sec and Off (no display).

**1 Press the MENU button in ✿ mode.**

The [✿ Rec.Mode] menu appears.

**2 Use the four-way controller (▲▼) to select [Instant Review].**

**3 Press the four-way controller (▶).**

A pull-down menu appears.

**4 Use the four-way controller (▲▼) to change the display time.**

**5 Press the OK button.**

The Instant Review setting is saved.

**6 Press the MENU button.**

The camera returns to capture status with the current setting.
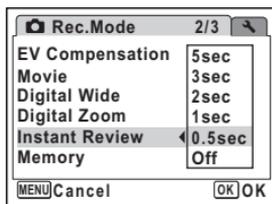
Instant Review ☞p.40
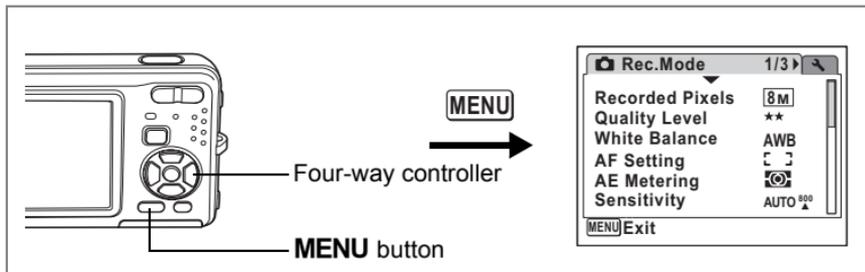
## Setting the Image Sharpness (Sharpness)

You can give the image sharp or soft outlines.

**1 Press the MENU button in ○ mode.**

The [○ Rec.Mode] menu appears.

**2 Use the four-way controller (▲ ▼) to select [Sharpness].**

**3 Use the four-way controller (◄ ►) to change the sharpness level.**

The following setting is saved.

- ■───┼ (Soft)
- ─■─┼ (Normal)
- ───■ (Hard)



**4 Press the MENU button.**

The Sharpness setting is saved and the camera returns to capture status.

memo
If you use the [Sharpness] function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)

4 Taking Pictures

**101**
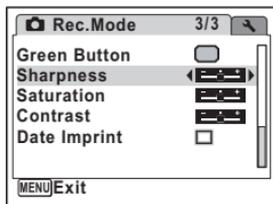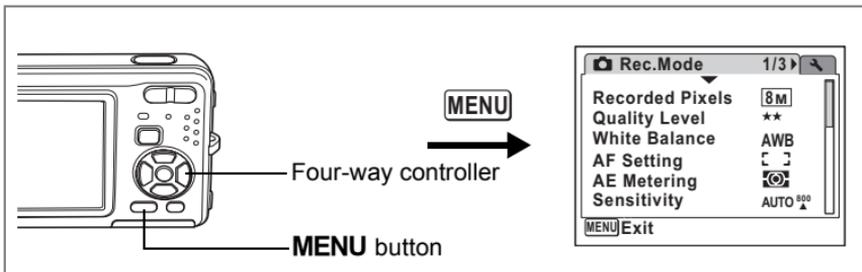
## Setting the Color Saturation (Saturation)

You can set the color saturation.

**1** **Press the MENU button in ▲ mode.**

The [▲ Rec.Mode] menu appears.

**2** **Use the four-way controller (▲▼) to select [Saturation].**

**3** **Use the four-way controller (◄►) to change the saturation level.**

The following setting is saved.

- ▬·—·—⁺ (Low)
- ▬—■—⁺ (Normal)
- ▬—·—■ (High)

| ▲ Rec.Mode | 3/3 |
|---|---|
| Green Button | ▢ |
| Sharpness | ▬■▬ |
| Saturation | ◄▬■▬► |
| Contrast | ▬■▬ |
| Date Imprint | ▢ |

**MENU** Exit
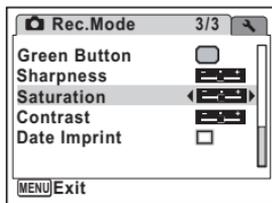
**4** **Press the MENU button.**

The Saturation setting is saved and the camera returns to capture status.

memo    If you use the [Saturation] function frequently, you can save time by assigning it to the **Fn** Setting of Green button. (p.57)

4 Taking Pictures

**102**
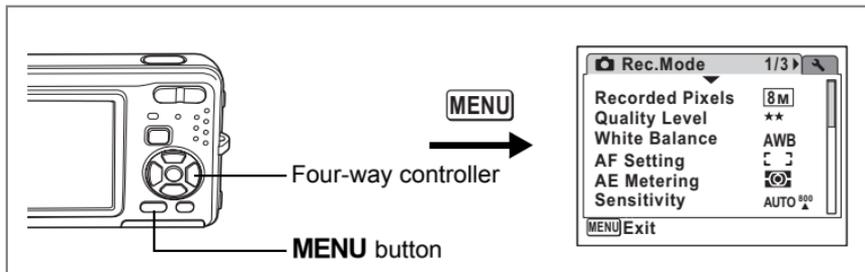
## Setting the Image Contrast (Contrast)

You can set the image contrast level.

**1** Press the MENU button in ○ mode.

The [○ Rec.Mode] menu appears.

**2** Use the four-way controller (▲ ▼) to select [Contrast].

**3** Use the four-way controller (◀ ▶) to change the contrast level.

The following setting is saved.

- ─·─⁺ (Low)
- ─·─⁺ (Normal)
- ─·─⁺ (High)



**4** Press the MENU button.

The Contrast setting is saved and the camera returns to capture status.

memo    If you use the [Contrast] function frequently, you can save time by assigning it to the Fn Setting of Green button. (p.57)

**MENU** button

Four-way controller

| Rec.Mode | 1/3 |
| --- | --- |
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◙ |
| Sensitivity | AUTO 800 |

**MENU** Exit
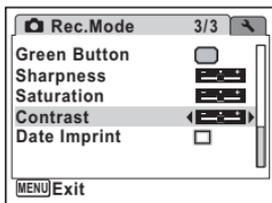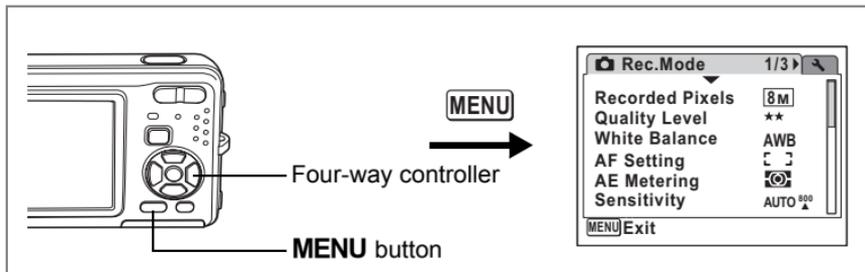
## Setting the Date Imprint Function

For choosing whether to imprint the date when taking still pictures.

**1** **Press the MENU button in ❖ mode.**

The [❖ Rec.Mode] appears.

**2** **Use the four-way controller (▲▼) to select [Date Imprint].**

**3** **Use the four-way controller (◄►) to select ☑ (On) or ☐ (Off).**

The selected setting is saved.

**4** **Press the MENU button.**

| Rec.Mode | 3/3 |
| --- | --- |
| Green Button | ☐ |
| Sharpness | ▬▬▬ |
| Saturation | ▬▬▬ |
| Contrast | ▬▬▬ |
| Date Imprint | ◄☐► |

**MENU** Exit
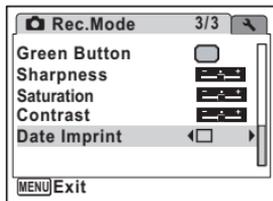
# Saving the Settings (Memory)

The Memory function is for saving the current camera settings when the camera is turned off.

For some camera settings, the Memory function is always set to ☑ (On) (the settings are saved when the camera is turned off), while for others you can choose on or off (to choose whether the settings are saved or not when the camera is turned off). The items which can be set to ☑ (On) or ☐ (Off) in the Memory function are shown in the table below. (Items not listed here will be saved in the selected settings when the camera is turned off.) If you select ☑ (On), the settings will be saved in the status they were in immediately before the camera was turned off. If you select ☐ (Off), the settings will be reset to the defaults when the camera is turned off. The table below also shows whether the Memory default setting for each item is on or off.

| Item | Description | Default Setting |
|------|-------------|:---:|
| Flash Mode | The flash mode set with the four-way controller (◄) (p.87) | ☑ |
| Drive Mode | The drive mode set with the four-way controller (▲) (p.74, p.75) | ☐ |
| Focus Mode | The focus mode set with the four-way controller (►) (p.85) | ☐ |
| Zoom Position | The zoom position set with the Zoom/♦♦♦/ ♦ button (p.76) | ☐ |
| MF Position | The manual focus position set with the four-way controller (▲ ▼) (p.86) | ☐ |
| White Balance | The [White Balance] setting on the [✿ Rec.Mode] menu (p.92) | ☐ |
| Sensitivity | The [Sensitivity] setting on the [✿ Rec.Mode] menu (p.96) | ☐ |
| EV Compensation | The [EV Compensation] setting on the [✿ Rec.Mode] menu (p.82) | ☐ |
| AE Metering | The [AE Metering] setting on the [✿ Rec.Mode] menu (p.94) | ☐ |
| Digital Zoom | The [Digital Zoom] setting on the [✿ Rec.Mode] menu (p.78) | ☑ |
| DISPLAY | The LCD monitor information display mode set with the **OK**/**DISPLAY** button (p.83, p.120) | ☐ |
| File No. | If a new SD Memory Card is inserted when On has been selected, file numbers are assigned sequentially. | ☑ |

**Rec.Mode** 1/3

| | |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Exit

MENU

Four-way controller

OK button
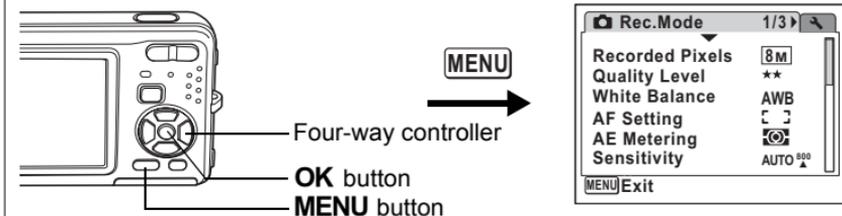
MENU button

**1** **Press the MENU button in ✿ mode.**

The [✿ Rec.Mode] menu appears.

**2** **Press the four-way controller (▲▼) to select [Memory].**

**3** **Press the four-way controller (▶).**

The Memory screen appears.

**4** **Use the four-way controller (▲▼) to choose an item.**

**5** **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

**6** **Press the OK button.**

The Memory setting is saved.

**Memory** 1/2

| | |
|---|---|
| Flash Mode | ◀ ☑ ▶ |
| Drive Mode | □ |
| Focus Mode | □ |
| Zoom Position | □ |
| MF Position | □ |
| White Balance | □ |

MENU Cancel    OK OK

**7** **Press the MENU button.**

The camera returns to capture status with the current setting.

# Recording Movies



Shutter release button
Zoom/ ♦♦♦/ ♦ button
Four-way controller
**OK** button
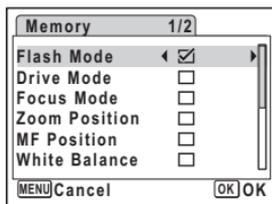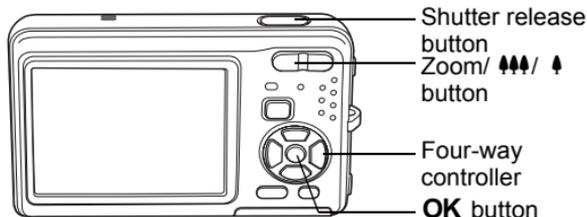
## Recording a Movie

This mode enables you to record movies. Sound is recorded at the same time.

1. **Press the four-way controller (▼) in ➊ mode.**
   The Capture Mode Palette appears.

2. **Use the four-way controller (▲ ▼ ◀ ▶) to select ➌ (Movie).**



3. **Press the OK button.**

   ➌ mode is selected and the camera returns to capture status.
   The following information appears on the LCD monitor.
   1. Movie mode icon
   2. Recording indicator (blinks during recording)
   3. Remaining recordable time
   4. Movie anti-shake function icon
   5. Still picture capture icon (p.108)
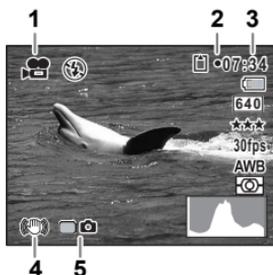


   You can change the captured area by pressing the Zoom/♦♦♦/ ♦ button to the left or right.

   ♦ : enlarges the subject

   ♦♦♦ : widens the area that is captured by the camera

# 4 Press the shutter release button fully.

Recording starts. Recording can continue until the built-in memory/SD memory card is full, or the size of the recorded movie reaches 2 GB.

memo
- The flash will not discharge in 🎥 mode.
- The focus mode can be changed before recording starts.
- In 🎥 mode, AE metering is set to multi-segment metering.
- When the Focus Mode is set to **MF**, you can adjust the focus before recording starts and during recording.
- You can use the optical zoom and digital zoom before recording starts and during recording.
- Changing the LCD monitor display mode by pressing the **OK**/**DISPLAY** button while recording a movie will not display the histogram.

Setting the Optical Zoom ☞p.115

# 5 Press the shutter release button fully.

Recording stops.

Playing Back Movies ☞p.125

#### Keeping the Shutter Release Button Pressed

If you keep the shutter release button pressed for more than one second, recording will continue for as long as you keep the button pressed. Shooting stops when you take your finger off the shutter release button.

#### Taking Still Pictures During Movie Recording (Still picture capture)

Press the Green button during movie recording to take still pictures while continuing to record the movie. After the Green button is pressed, a still picture is taken and stored.

Caution
When the battery level indicator is at 🔲 (battery is exhausted), the flash will not discharge when taking still pictures during movie recording.

MENU

Four-way controller

OK button
MENU button

| **Rec.Mode** | 1/3 ▶ ⚡ |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◉ |
| Sensitivity | AUTO 800 |

MENU Exit
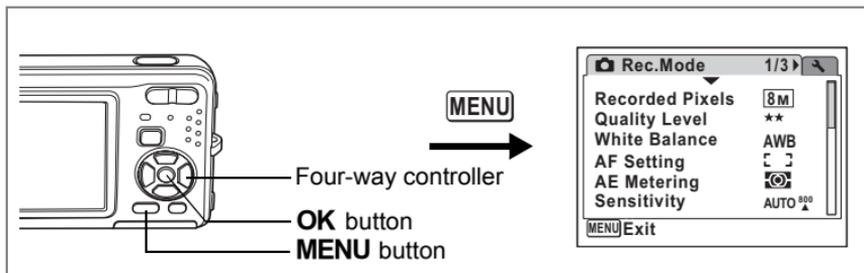
## Selecting the Recorded Pixels for Movies

You can choose from two recorded pixels settings for movies: 640 and 320.

The more pixels there are, the clearer the details and the bigger the file size. The file size also varies depending on the quality level and frame rate settings. (p.30)

**Recorded Pixels for Movies**

| 640 (640×480) | Suitable for viewing on a TV or computer screen. |
|---|---|
| 320 (320×240) | Suitable for posting on a website or attaching to e-mail. |

**1  Press the MENU button in ▢ mode.**
The [▢ Rec.Mode] menu appears.

**2  Use the four-way controller (▲ ▼) to select [Movie].**

**3  Press the four-way controller (▶).**
The Movie screen appears.

**4  Use the four-way controller (▲ ▼) to select [Recorded Pixels].**

**5  Press the four-way controller (▶).**
A pull-down menu appears.

**6  Use the four-way controller (▲ ▼) to change the number of recorded pixels.**

| ⊡Rec. time | 15:02:26 |
|---|---|
| Recorded Pixels ◀ | 640 |
| Quality Level | 320 |
| Frame Rate | 30fps |
| Color Mode | Full Color |
| Movie SR | ☑ |
| AF w/ recording | ☐ |

MENU Cancel          OK OK

**7  Press the OK button.**
The Recorded Pixels setting is saved.

**8  Press the MENU button twice.**
The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

4 Taking Pictures

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MENU

Four-way controller

OK button
MENU button

| ◘ Rec.Mode | 1/3 ◄ ◄ |
|---|---|
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◙ |
| Sensitivity | AUTO ⁸⁰⁰ |

MENU Exit
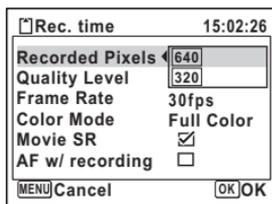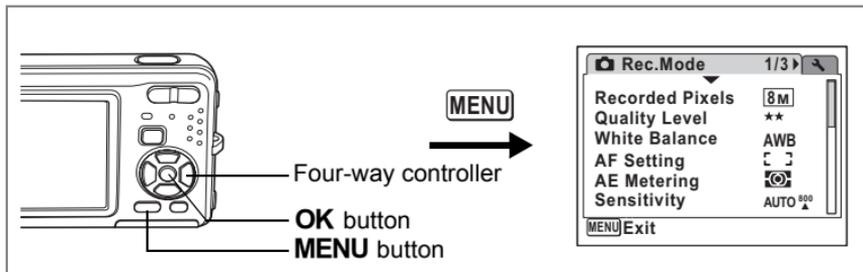
## Selecting the Quality Level of Movies

You can set the quality level of movies. The higher the quality level, the clearer the details and the bigger the file size.

**Quality level of movies**

| ★★★ | Best | | Clearer images with larger file size |
|---|---|---|---|
| ★★ | Better | | |
| ★ | Good | | Grainier images with smaller file size |

1 **Press the MENU button in ◘ mode.**

The [◘ Rec.Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Movie].**

3 **Press the four-way controller (►).**

The Movie screen appears.

4 **Use the four-way controller (▲▼) to select [Quality Level].**

5 **Press the four-way controller (►).**

A pull-down menu appears.

6 **Use the four-way controller (▲▼) to change the quality level.**

7 **Press the OK button.**

The Quality Level setting is saved.

| ◻Rec. time | 07:30:06 |
|---|---|
| Recorded Pixels | 640 |
| Quality Level | ◄ ★★★ |
| Frame Rate | ★★ |
| Color Mode | ★ |
| Movie SR | ☑ |
| AF w/ recording | ☐ |

MENU Cancel    OK OK

8 **Press the MENU button twice.**

The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

4 Taking Pictures

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Four-way controller
OK button
MENU button

| | |
|---|---|
| **Rec.Mode** | 1/3 ▶ 🔧 |
| Recorded Pixels | 8M |
| Quality Level | ★★ |
| White Balance | AWB |
| AF Setting | [ ] |
| AE Metering | ◙ |
| Sensitivity | AUTO 800 ▲ |

MENU Exit
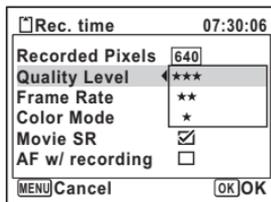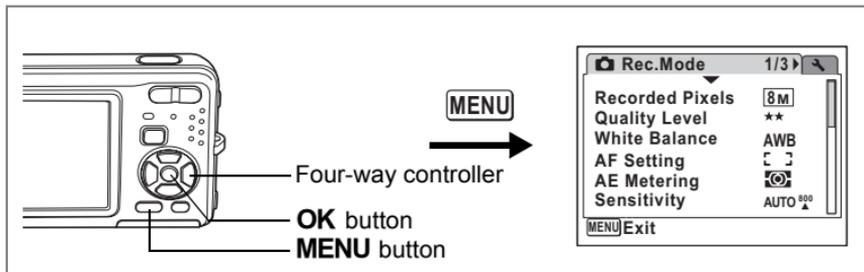
## Selecting the Frame Rate

You can choose from two frame rates (number of frames per second) for movies: 30fps (frames per second) and 15fps. The more frames per second, the better the quality of the movie, but the file size becomes larger.

**1** Press the MENU button in ■ mode.
The [■ Rec.Mode] menu appears.

**2** Use the four-way controller (▲ ▼) to select [Movie].

**3** Press the four-way controller (▶).
The Movie screen appears.

**4** Use the four-way controller (▲ ▼) to select [Frame Rate].

**5** Press the four-way controller (▶).
A pull-down menu appears.

**6** Use the four-way controller (▲ ▼) to select [30fps] or [15fps].

**7** Press the OK button.
The Frame Rate setting is saved.

| | |
|---|---|
| **☐ Rec. time** | 15:02:26 |
| Recorded Pixels | 640 |
| Quality Level | ★★★ |
| Frame Rate | ◀ 30fps |
| Color Mode | 15fps |
| Movie SR | ☑ |
| AF w/ recording | ☐ |
| MENU Cancel | OK OK |

**8** Press the MENU button twice.
The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

4 **Taking Pictures**

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MENU

Four-way controller
OK button
MENU button

**Rec.Mode** 1/3 ►
Recorded Pixels    8M
Quality Level      ★★
White Balance      AWB
AF Setting         [ ]
AE Metering        ◉
Sensitivity        AUTO 800
MENU Exit
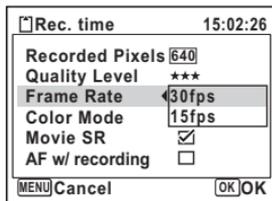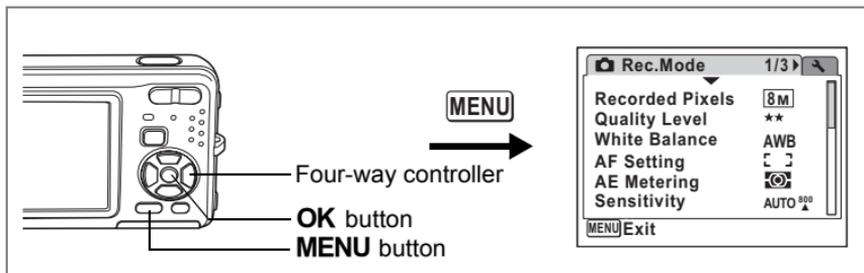
## Recording Movies in Black and White or Sepia Tones (Color Mode)

You can set the color mode to black and white or sepia, as well as full color, when recording a movie.

**1  Press the MENU button in ▲ mode.**

The [▲ Rec.Mode] menu appears.

**2  Use the four-way controller (▲▼) to select [Movie].**

**3  Press the four-way controller (►).**

The Movie screen appears.

**4  Use the four-way controller (▲▼) to select [Color Mode].**

**5  Press the four-way controller (►).**

A pull-down menu appears.

**6  Use the four-way controller (▲▼) to choose a color.**

**7  Press the OK button.**

The Color Mode setting is saved.

Movie
Recorded Pixels  640
Quality Level    ★★★
Frame Rate       30fps
Color Mode      ◄ Full Color
Movie SR         B&W
AF w/ recording  Sepia
MENU Cancel         OK OK

**8  Press the MENU button twice.**

The camera returns to capture status with the current setting.
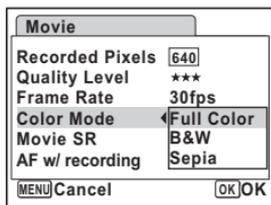
> **Caution**
>
> The color mode setting cannot be changed after a movie is recorded.

4

Taking Pictures

**112**

**Rec.Mode**      1/3 ▶

Recorded Pixels    8M
Quality Level     ★★
White Balance    AWB
AF Setting       [ ]
AE Metering     ◙
Sensitivity      AUTO 800

**MENU** Exit

Four-way controller

**MENU** button

## Setting the Movie SR (Movie Anti-Shake) Function

In 🎬 mode, you can compensate for camera shake while you are recording movies with the Movie SR (Movie Anti-Shake) function.

**1** **Press the MENU button in ✿ mode.**
The [✿ Rec.Mode] menu appears.

**2** **Use the four-way controller (▲▼) to select [Movie].**

**3** **Press the four-way controller (▶).**
The Movie screen appears.

**4** **Use the four-way controller (▲▼) to select [Movie SR].**

**5** **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**
The Movie SR (Movie shake reduction) setting is saved.

**Movie**        1/2

Recorded Pixels   640
Quality Level    ★★★
Frame Rate     30fps
Color Mode    Full Color
Movie SR     ◀ ☑    ▶
AF w/ recording   □

**MENU** ⏎

**6** **Press the MENU button twice.**
The camera returns to capture status with the current setting.

**Rec.Mode** 1/3

Recorded Pixels  8M
Quality Level  ★★
White Balance  AWB
AF Setting  [ ]
AE Metering  ▣
Sensitivity  AUTO 800

MENU Exit
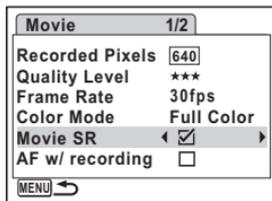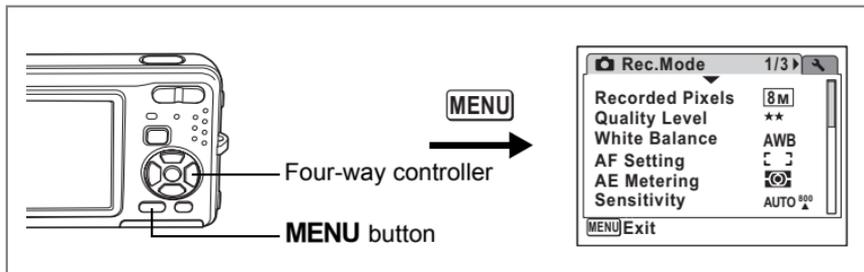
## Selecting the Focusing Method for Recording Movies

You can set the focusing method used when recording movies. Select either to always continue to focus on the subject while shooting, or to lock the focus in the position selected by pressing the shutter release button halfway with the subject in focus before shooting.

**1** Press the MENU button in ✿ mode.

**2** Use the four-way controller (▲▼) to select [Movie].

**3** Press the four-way controller (▶).
The Movie screen appears.

**4** Use the four-way controller (▲▼) to select [AF w/ recording].

**5** Use the four-way controller (◀▶) to select ☑ (On) or ☐(Off)..

☑ (On): Always focuses on the subject while recording.

☐ (Off): Locks the focus in the position selected by pressing the shutter release button halfway with the subject in focus before recording.
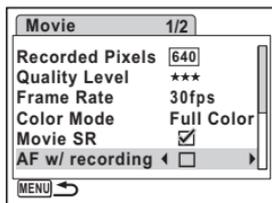
**Movie** 1/2

Recorded Pixels  640
Quality Level  ★★★
Frame Rate  30fps
Color Mode  Full Color
Movie SR  ☑
AF w/ recording  ◀ ☐  ▶

MENU ↰

**6** Press the MENU button twice.
The camera returns to capture status with the current setting.

memo  If you set [AF w/ recording] to ☑ (On) and select something other than **PF** or ▲ for the focus mode, the sound of the camera focusing may be audible in the recorded sound, depending on the shooting environment.

Four-way controller
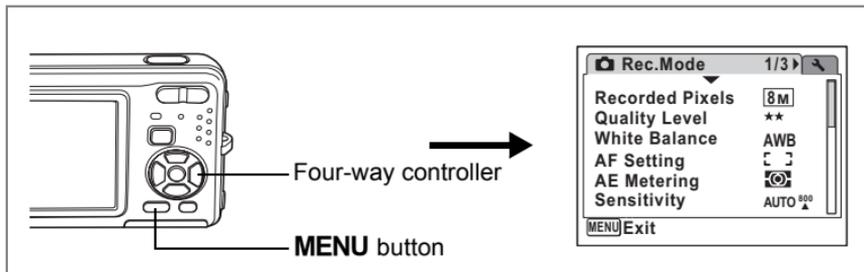
**MENU** button

## Setting the Optical Zoom

You can set whether or not to use the optical zoom during movie recording.

**1**   **Press the MENU button in ✦ mode.**

The [✦ Rec.Mode] menu appears.

**2**   **Use the four-way controller (▲ ▼) to select [Movie].**

**3**   **Press the four-way controller (▶).**

The Movie screen appears.

**4**   **Use the four-way controller (▲ ▼) to select [Optical Zoom].**

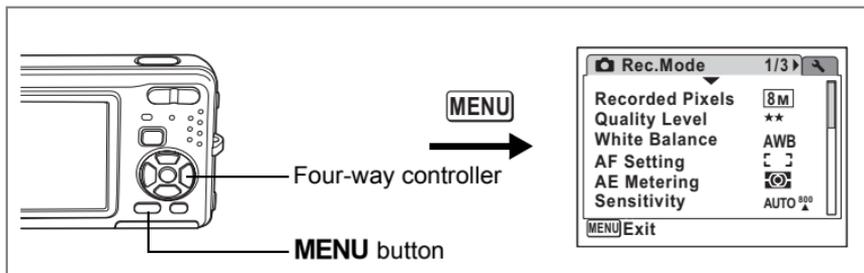**5**   **Use the four-way controller (◀ ▶) to select ☑ (On) or □ (Off).**

The Optical Zoom setting is saved.

**6**   **Press the MENU button twice.**

The camera returns to capture status with the current setting.
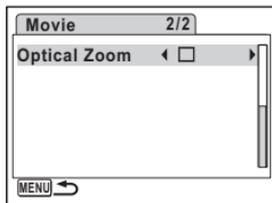


memo    If you set [Optical Zoom] to ☑ (On), the sound of the lens moving may be audible in the recorded sound, depending on the shooting environment.

# Playing Back Images

## Switching Between $\bullet$ Mode and $\boxed{\blacktriangleright}$ Mode

In this manual, the capture mode, such as for taking still pictures, is referred to as [$\bullet$ mode]. The playback mode, such as for displaying captured images on the LCD monitor, is referred to as [$\boxed{\blacktriangleright}$ mode]. In $\boxed{\blacktriangleright}$ mode, you can perform simple editing operations on the images that are played back.

Follow the procedure below to switch between $\bullet$ mode and $\boxed{\blacktriangleright}$ mode.

### To Switch from $\bullet$ Mode to $\boxed{\blacktriangleright}$ Mode

**1 Press the $\boxed{\blacktriangleright}$ button.**
The camera switches to $\boxed{\blacktriangleright}$ mode.

### To Switch from $\boxed{\blacktriangleright}$ Mode to $\bullet$ Mode

**1 Press the $\boxed{\blacktriangleright}$ button or shutter release button halfway.**
The camera switches to $\bullet$ mode.

**Displaying data in the built-in memory**
When an SD memory card is inserted in the camera, images, movies, and sounds in the SD memory card are displayed. If you want to display images, movies, and sounds in the built-in memory, remove the SD memory card.

● **[Viewing images in the built-in memory while the SD memory card is inserted (built-in memory display)]**
• When switching from capture mode to playback mode, you can display images, movies, and sounds in the built-in memory while the SD memory card is inserted by pressing the playback button for more than one second.
• In built-in memory display, you can play back still pictures (including enlarged display) (p.41, p.119), movies (p.125), and sounds (p.160), and switch between nine-image display, folder display, and calendar display (p.118).
• In built-in memory display, you cannot delete data, delete a selection, display the Playback Mode Palette, or display the menu. If you want to perform any of these operations on images, movies, or sounds in the built-in memory, do so after removing the SD memory card.

## Playing Back Still Pictures

Refer to "Playing Back Images" (p.41) for instructions.

Zoom/☒/Q button

▣ button

Four-way controller

OK button

MENU button
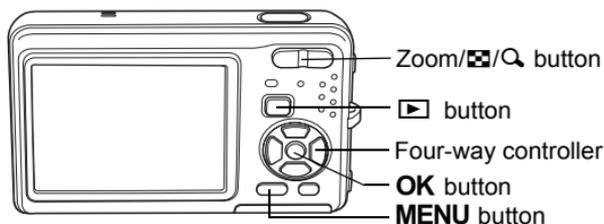
## Nine-Image Display, Folder Display and Calendar Display

### Nine-Image Display

You can display nine thumbnails of captured images at a time.

**1** **In ▶ mode, press ☒ on the Zoom/ ☒/Q button.**

A page consisting of nine thumbnail images appears. The displayed images change nine at a time page by page.
Use the four-way controller (▲ ▼ ◀ ▶) to move the frame. When 10 or more images have been saved, if you choose image ① and press the four-way controller (▲ ◀), the previous page appears.
Similarly, if you choose image ② and press the four-way controller (▼ ▶), the next page appears.

Frame



🗑Select & Delete      100-0010
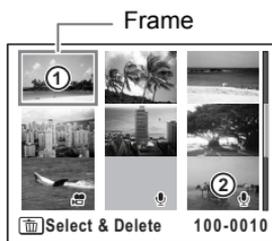
The icons that appear on the images indicate the following:

No icon : Still picture without sound
《⑪》 : Still picture that can have camera shake corrected
♦ (with image) : Still picture with sound
🎬 : Movie (first frame appears)
♦ (without image) : Sound file only

Press the OK button, MENU button or Q on the Zoom/☒/Q button to switch to single-image display of the selected image.
Press the ▣ button to switch to ☐ mode.

Playing Back and Deleting Images

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#### Switching to Folder Display or Calendar Display

In nine-image display, press 🔄 on the Zoom/🔄/Q button to switch to folder display or calendar display. Press the Green button to switch between folder display and calendar display.

### 1 In ▶ mode, press 🔄 on the Zoom/🔄/Q button.

The screen changes to nine-image display.

### 2 Press 🔄 on the Zoom/🔄/Q button.

The screen changes to folder display or calendar display.

**Folder display**

The list of folders with recorded images and sound files appears.

Use the four-way controller (▲ ▼ ◄ ►) to move the frame.

Press the **OK** button or Q on the Zoom/🔄/Q button to display the images in the selected folder in nine-image display.

Frame

| 100 | 101 | 102 |
| 103 | 104 | |

◼⊞                                    100-0010
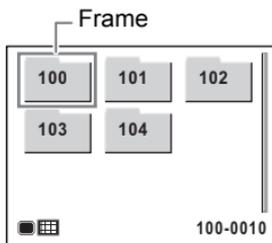
**Calendar display**

Recorded images and sound files are displayed by date in calendar format.

The first image recorded on a date is displayed for that date on the calendar.

🎤 appears for dates on which a sound file was first recorded.

Use the four-way controller (▲ ▼ ◄ ►) to move the frame.

Frame

| SUN | MON | TUE | WED | THU | FRI | SAT |

◼▢                                    01/2007

Press Q on the Zoom/🔄/Q button to display the images for a date in nine-image display.

Select a date and press the **OK** button to switch to single-image display of the first image recorded on that date.
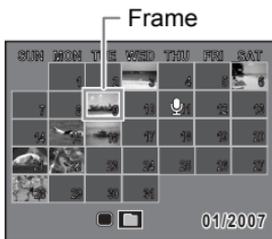
- Press the **MENU** button in folder display or calendar display to switch to normal nine-image display.
- Press the ▶ button or half-press the shutter release button in folder display or calendar display to switch to 🖸 mode.

Zoom/🔳/Q
button
▶ button
Four-way
controller
OK button
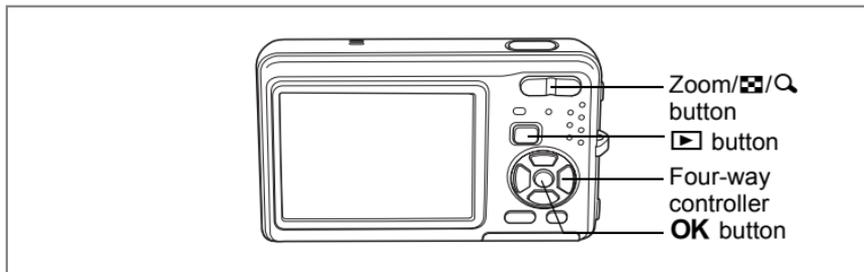
## Zoom Playback

You can magnify an image up to eight times. A guide showing the center
of the magnified portion of the image appears on the LCD monitor during
zoom playback.

**1** **Enter the ▶ mode and use the four-way controller
(◀▶) to choose the image you want to magnify.**

**2** **Press Q on the Zoom/🔳/Q
button.**

The image is magnified (×1.1 to ×8).
Holding down Q on the Zoom/🔳/Q button
changes the magnification continuously.
You can use the guide at the bottom left of
the screen to check which portion of the
image is magnified.



△    Q 2.0×

Guide

**The following operations can be performed while the magnified
image is displayed.**

Four-way controller (▲▼◀▶) Moves the position to be magnified
Zoom/🔳/Q button (Q)     Makes the image bigger (max. ×8)
Zoom/🔳/Q button (🔳)     Makes the image smaller (min. ×1.1)

**3** **Press the OK button.**

The image returns to single-image display.

⚠ Caution
• Movies cannot be magnified.
• The guide does not appear if the LCD monitor display mode is set
to "No Info".

## Displaying Shooting Information in Playback Mode

Shooting information can be displayed on the LCD monitor in ▶ mode.
Pressing the **OK**/**DISPLAY** button changes the display mode.
Refer to p.19 for details of each display mode.

**Normal Display**



↓ OK

**Histogram + Info**



↓ OK

**No Info**
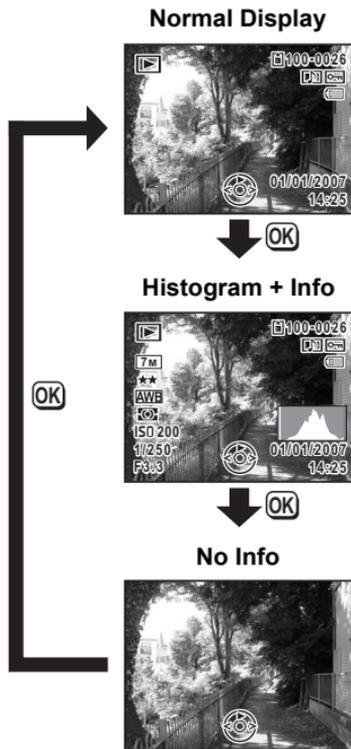


Displaying Shooting Information in Capture Mode ☞p.83
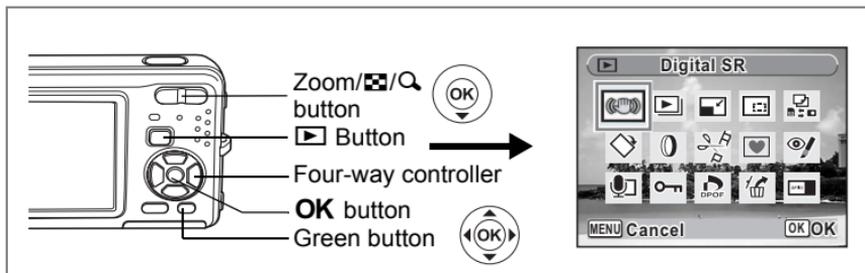
## Correcting Camera Shake with Digital SR

For correcting the camera shake in recorded images.

**1** **Enter the** ▶ **mode and use the four-way controller (◄ ►) to choose the image to correct camera shake for.**

**2** **Press the four-way controller (▼).**
The Playback Mode Palette appears.

**3** **Use the four-way controller (▲ ▼ ◄ ►) to select** ((⬡)) **(Digital SR).**

**4** **Press the OK button.**
The image to correct is displayed.
You can use the Zoom/ ⊞/ Q button to make the image larger or smaller.

**5** **Press the Green Button.**
The corrected image is displayed.
You can use the Zoom/ ⊞/ Q button to make the image larger or smaller.

**6** **Press the OK button.**

**7** **Use the four-way controller (◀ ▶) to select [Overwrite] or [Save as].**

If the image is protected, you can only select [Save as].

**8** **Press the OK button.**

The corrected image is saved to the built-in memory or SD Memory Card.

> **Caution**
> • If you overwrite the image, the shake information is lost, and you cannot perform shake correction again.
> • «◎» is displayed on the upper left of the LCD monitor only when playing back images for which camera shake can be corrected.
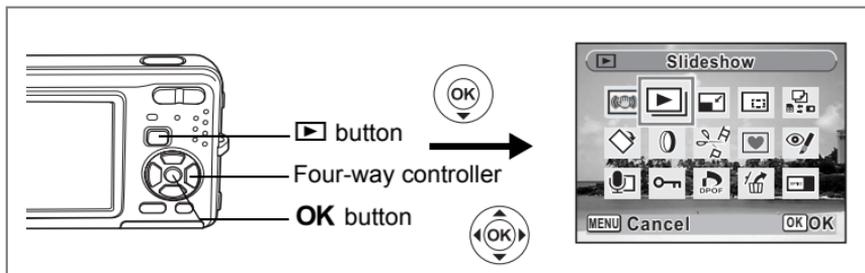
## Slideshow

You can play back recorded images one after another.

**1** **Enter the** ▣ **mode and use the four-way controller (◀ ▶) to choose an image to start the slideshow with.**

**2** **Press the four-way controller (▼).**

The Playback Mode Palette appears.

**3** **Use the four-way controller (▲ ▼ ◀ ▶) to select** ▣ **(Slideshow).**

**4** **Press the OK button twice.**

The slideshow starts.

Pressing the **OK** button during the slideshow pauses the slideshow. To resume the slideshow, press the **OK** button while the slideshow is paused.

**5** **Press any button other than the OK button.**

The slideshow stops.

#### Setting the Slideshow Conditions

You can set the playback interval and also a screen effect and sound effect for when one image changes to the next.

**1** **Press the four-way controller (▼) in** ▣ **mode.**

The Playback Mode Palette appears.

**2** **Use the four-way controller (▲ ▼ ◀ ▶) to select** ▣ **(Slideshow).**

## 3 Press the OK button.

The screen for setting the slideshow conditions appears.

## 4 Use the four-way controller (▲▼) to select [Interval].

## 5 Press the four-way controller (▶).

A pull-down menu appears.

```
┌─────────────────────────┐
│ ▶                       │
│                         │
│ Interval      ◀ 3sec    │
│ Screen Effect    Wipe   │
│ Sound Effect     ☑      │
│                         │
│ MENU ↩        OK Start  │
└─────────────────────────┘
```

## 6 Use the four-way controller (▲▼) to change the interval and press the OK button.

You can choose from 3sec, 5sec, 10sec, 20sec, and 30sec.

## 7 Use the four-way controller (▲▼) to select [Screen Effect].

After selecting [Screen Effect], press the four-way controller (▶). A pull-down menu appears with the following items that can be selected. Use the four-way controller (▲▼) to select an item and press the OK button.
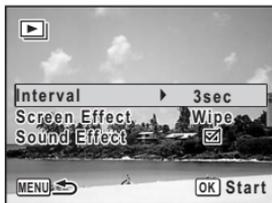
| Off | No effect |
|---------|-------------------------------------------------------------------|
| Wipe | The next image slides over the previous one from left to right |
| Checker | The next image appears in small square mosaic blocks |
| Fade | The current image gradually fades out and the next image fades in |

## 8 Use the four-way controller (▲▼) to select [Sound Effect].

## 9 Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).

Except when the screen effect is set to Off, you can choose ☑ (On) or □ (Off) for the sound that is played when one image changes to the next.

## 10 Press the OK button.

The slideshow starts using the selected interval and effect.

> memo
> • The slideshow will continue until you press any button other than the OK button.
> • Movies or pictures with sound will normally be played through to the end before the next picture is played back, regardless of the interval setting. However, pressing the four-way controller (▶) while playing back a movie or a picture with sound skips to the next image.
> • Sound files made in Voice Recording mode are not played back in the slideshow.

Connecting the Camera to AV Equipment ☞p.126

5 Playing Back and Deleting Images

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# Playing Back Movies



Zoom/♦♦♦/♦ button
▶ button
Four-way controller
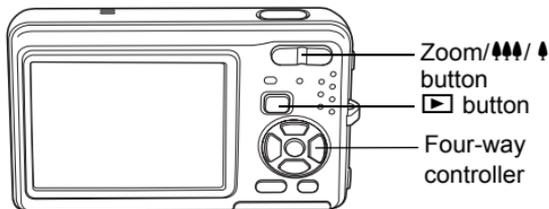
## Playing Back a Movie

You can play back the movies you have taken. Sound is played back at the same time.

**1** **Enter the ▶ mode and use the four-way controller (◀ ▶) to choose the movie you want to play back.**



**2** **Press the four-way controller (▲).**

Playback starts.

**The following operations can be performed during playback.**

Four-way controller (◀) Plays back in reverse
Four-way controller (▲) Pauses playback
Zoom/♦♦♦/♦ button (♦) Increases the volume
Zoom/♦♦♦/♦ button (♦♦♦) Reduces the volume

**The following operations can be performed while playback is paused.**

Four-way controller (◀) Reverses the frame
Four-way controller (▶) Forwards the frame
Four-way controller (▲) Releases the Pause function (Play)

**3** **Press the four-way controller (▼).**

Playback stops.

# Connecting the Camera to AV Equipment



PC/AV terminal

Terminal cover

**External Input Terminal**

VIDEO  AUDIO (L)  (R)

yellow  white
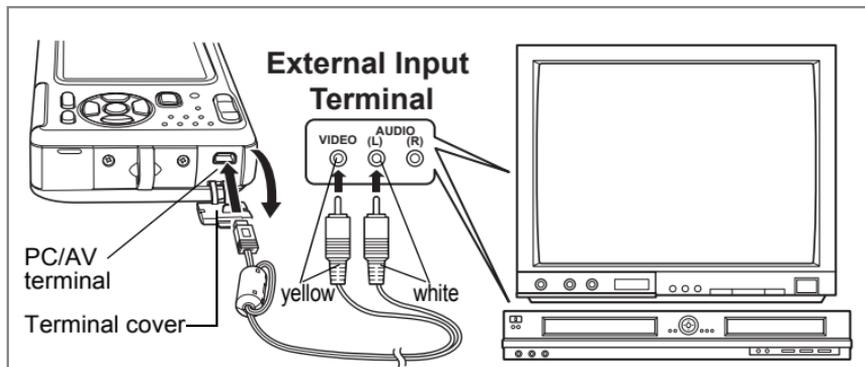
By using the AV cable, you can capture and play back images on equipment with a video IN jack, such as a TV. Make sure the camera and TV are turned off before connecting the camera to the TV.

**1** **Open the terminal cover and connect the AV cable to the PC/AV terminal.**

**2** **Connect the other ends of the AV cable (yellow: video, white: audio) to the video input terminal and audio input terminal of the AV device.**

When using stereo sound equipment, insert the sound terminal into the L (white) terminal.

**3** **Turn the AV device on.**

When the device that the camera is connected to and the device that plays back images are different, turn both devices on.

When viewing images on AV equipment with multiple video input terminals (such as a TV), refer to the operation manual of the device and select the video input terminal to which the camera is connected.

**4** **Turn the camera on.**

memo
- You are recommended to use the AC adapter kit K-AC63 (optional) if you intend to use the camera for a long time.
- Depending on the country or region, images and sound files may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting. (p.175)
- The camera LCD monitor turns off while the camera is connected to AV equipment.
- Volume cannot be adjusted with the zoom button while the camera is connected to AV equipment.

# Deleting Images
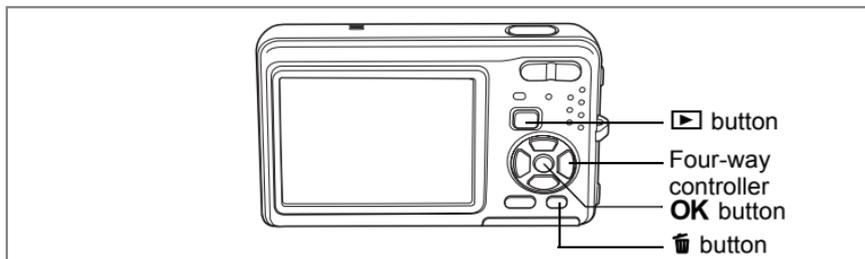


Delete images and sounds with mistakes or that are unnecessary.

**When images or sounds are inadvertently deleted**
Deleted images and sounds can be recovered with the Optio Z10. (p.132)
Deleted images and sounds can be recovered even if the camera has been turned off after deletion as long as the SD memory card has not been removed. However, deleted images and sounds cannot be recovered after operations to write data such as taking pictures, recording movies, protecting images, saving DPOF settings, resizing images, or cropping images have been performed.

## Deleting a Single Image/Sound File

You can delete a single image or sound file.

Protected images and sound files cannot be deleted. (p.133)

**1** Enter the ▶ mode and use the four-way controller
(◀ ▶) to choose the image/sound file you want to delete.

**2** Press the 🗑 button.
The confirmation screen appears.

**3** Use the four-way controller (▲ ▼)
to select [Delete].

**4** Press the OK button.
The image or sound file is deleted.

memo — If you press the 🗑 button during Instant Review, the screen in Step 2 appears, enabling you to delete the image you have just taken. (p.42)

5 Playing Back and Deleting Images

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### Deleting a Sound File

If sound has been recorded with an image (p.161), you can delete the sound without deleting the image.

**1** **Enter the** ▶ **mode and use the four-way controller (◀ ▶) to choose an image with sound.**

**2** **Press the** 🗑 **button.**
The confirmation screen appears.

**3** **Use the four-way controller (▲ ▼) to select [Delete Sound].**

**4** **Press the** OK **button.**
The sound file is deleted.

> memo  Select [Delete] in Step 3 above to delete both the image and sound file.

Zoom/◼/Q button

▶ button

Four-way controller

OK button

🗑 button
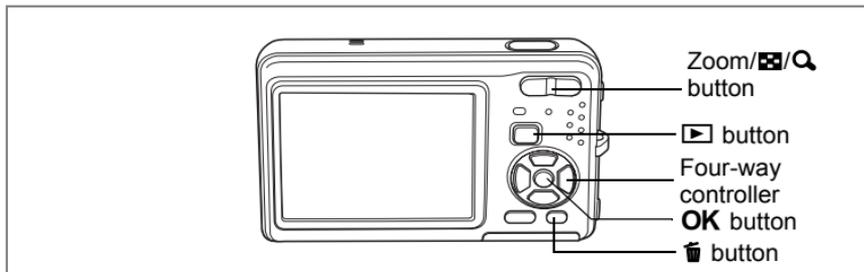
## Deleting Selected Images and Sound Files (from Nine-Image Display)

You can delete several images/sound files selected from the nine-image display at once.

> ⚠️ Caution  Protected images and sound files cannot be deleted.

**1** In ▶ mode, press ◼ on the Zoom/ ◼/Q button.

Nine thumbnail images appear.

**2** Press the 🗑 button.

□ appears on the images and sound files.
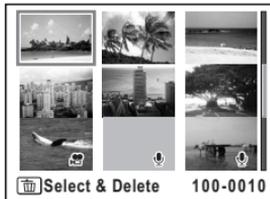
**3** Use the four-way controller (▲ ▼ ◀ ▶) to choose the images and sound files that you want to delete and press the OK button.

☑ appears on the selected images and sound files.

If you select an image and press Q on the

Zoom/◼/Q button, the selected image appears in single-image display for as long as the button is pressed, enabling you to check whether you really want to delete it or not. (The display returns to the nine-image display when you release the button.) However, protected images cannot be displayed in single-image display.

5 Playing Back and Deleting Images

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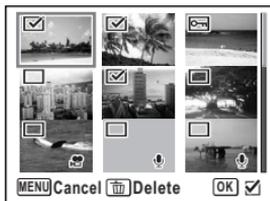
## 4 Press the 🗑 button.

A confirmation dialog appears.

## 5 Use the four-way controller (▲▼) to select [Select & Delete].

## 6 Press the OK button.

The selected images and sound files are deleted.

**Delete all selected images/sounds**

**Select & Delete**

**Cancel**

MENU ⏎    OK OK

► button
Four-way controller
**OK** button
🗑 button
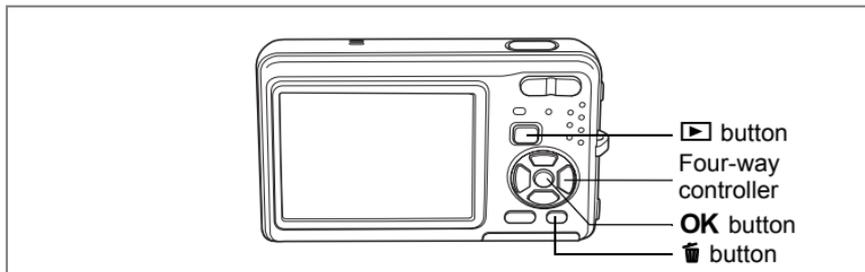
## Deleting All Images and Sound Files

You can delete all the images and sound files at once.

> **Caution**
>
> Protected images and sound files cannot be deleted. (p.133)

**1  Press the 🗑 button in ► mode.**

A confirmation dialog appears.

**2  Press the 🗑 button.**

A confirmation dialog appears.

**3  Use the four-way controller (▲ ▼) to select [Delete All].**

**4  Press the OK button.**

All the images and sound files are deleted.



Delete all images/sounds

Delete All
Cancel

MENU ◄   OK OK

Recovering Deleted Images ☞p.132

```
        ┌──────────────────────────────┐
(OK)    │ ▶    Image Recovery          │
        │ ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐     │
▶ button│ │  │ │  │ │  │ │  │ │  │     │
        │ └──┘ └──┘ └──┘ └──┘ └──┘     │
Four-way│ ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐     │
controller│ │  │ │  │ │  │ │  │ │  │   │
        │ └──┘ └──┘ └──┘ └──┘ └──┘     │
        │ ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐     │
OK button│ │  │ │  │ │  │ │  │ │  │    │
        │ └──┘ └──┘ └──┘ └──┘ └──┘     │
        │ MENU Cancel          OK OK   │
        └──────────────────────────────┘
```
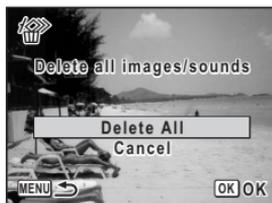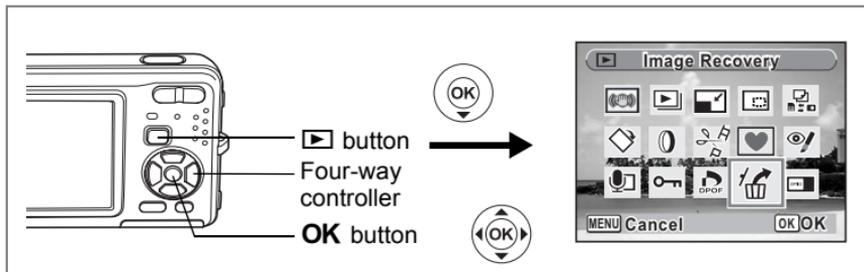
## Recovering Deleted Images

You can recover images or sound files that were taken with this camera and then deleted.

> After deleting an image, once operations to write data such as taking pictures, recording movies, protecting images, saving DPOF settings, resizing images, or cropping images have been performed, or the SD memory has been removed, the message "No image to be processed" appears in Step 3 and the deleted images and sound files cannot be recovered.

**1 After deleting a file, press the four-way controller (▼).**
The Playback Mode Palette appears.

**2 Use the four-way controller (▲ ▼ ◄ ►) to select $\overset{\sim}{\underset{\sim}{\boxtimes}}$ (Image Recovery).**

**3 Press the OK button.**
The number of recoverable images appears.

**4 Use the four-way controller (▲ ▼) to select [Recover].**

```
        ┌──────────────────────────┐
        │ 🗑                        │
        │                          │
        │      5 images            │
        │   Want to recover?       │
        │     ┌──────────────┐     │
        │     │   Recover    │     │
        │     └──────────────┘     │
        │        Cancel            │
        │                          │
        │                OK OK     │
        └──────────────────────────┘
```

**5 Press the OK button.**
Deletion of the images is cancelled and the files are recovered.

> • Recovered images and sound files have the same file name as before they were deleted.
> • Up to a maximum of 999 deleted image files can be recovered.

5 Playing Back and Deleting Images
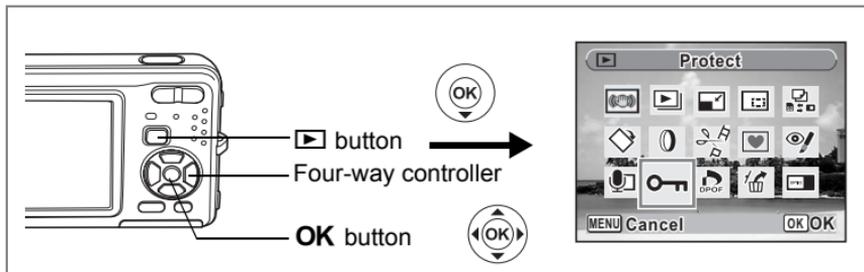
## Protecting Images and Sound Files from Deletion (Protect)

You can protect stored images and sound files from being accidentally deleted.

**1** **Press the four-way controller (▼) in ▶ mode.**
The Playback Mode Palette appears.

**2** **Use the four-way controller (▲ ▼ ◀ ▶) to select O‐ㄱ (Protect).**

**3** **Press the OK button.**
The screen for selecting [Single image/ sound] or [All Images/Sounds] appears.

**4** **Use the four-way controller (▲ ▼) to select [Select image/sound].**

**5** **Press the OK button.**
The message [Protect this image/sound] appears.
To protect another image or sound file, use the four-way controller (◀ ▶) to select another image or sound file.

**6** **Use the four-way controller (▲ ▼) to select [Protect].**

**7** **Press the OK button.**
The selected image or sound file is protected.

memo
- To cancel the Protect setting, select [Unprotect] in Step 6.
- 🖾 appears below the file number on protected images and sound files during playback.
- You can protect another image or sound file by further performing the above 5, 6, and 7 Steps. However, the maximum number you can protect in succession by the above Steps cannot exceed 99.
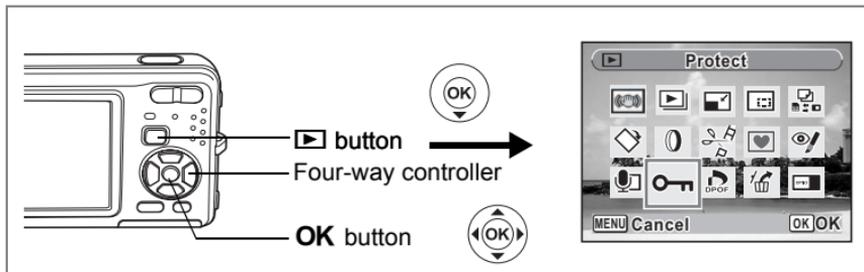
**Protecting All Images and Sound Files**

**1 Press the four-way controller (▼) in ▶ mode.**
The Playback Mode Palette appears.

**2 Use the four-way controller (▲ ▼ ◄ ►) to select O‑n (Protect).**

**3 Press the OK button.**
The screen for selecting [Single image/sound] or [All Images/Sounds] appears.

**4 Use the four-way controller (▲ ▼) to select [All Images/Sounds].**

**5 Press the OK button.**
The screen for selecting [Protect] or [Unprotect] appears.

**6 Use the four-way controller (▲ ▼) to select [Protect].**

**7 Press the OK button.**
All the images and sound files are protected.

> ⚠ Protected images and sound files will be deleted when the SD Memory Card or built-in memory is formatted.

> memo • To cancel the Protect setting on all your images and sound files, select [Unprotect] in Step 6.
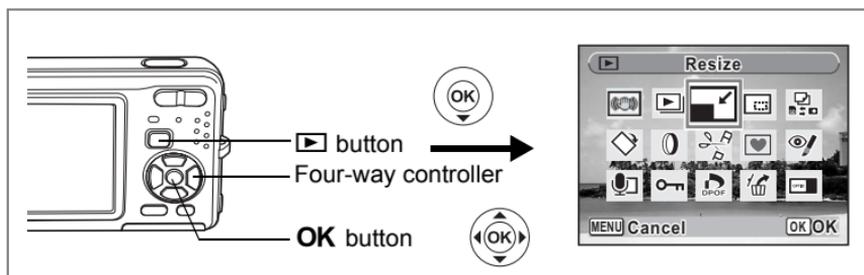
**Changing the Image Size and Quality (Resize)**

By changing the size and quality of a selected image, you can make the file size smaller than the original. You can use this function to continue taking pictures when the SD Memory Card or built-in memory is full, by making the images smaller and overwriting the original images to make more space available.

memo
- Movies cannot be resized.
- You cannot select a larger resolution or higher quality than that of the original image.

**1** Enter the ▶ mode and use the four-way controller (◄►) to choose the image you want to resize.

**2** Press the four-way controller (▼).
The Playback Mode Palette appears.

**3** Use the four-way controller (▲▼◄►) to select ⬚ (Resize).

**4** Press the OK button.
The screen for choosing the size and quality appears.

**5** Select [Recorded Pixels] and [Quality Level].
Use the four-way controller (◄►) to choose the size and quality.
Use the four-way controller (▲▼) to switch between [Recorded Pixels] and [Quality Level].

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## 6 Press the OK button.

A confirmation dialog for overwriting the image appears.
[Save as] is the only available option for protected images.

## 7 Use the four-way controller (▲▼) to select [Overwrite] or [Save as].

## 8 Press the OK button.

The resized image is saved.

**Overwrite original image?**

**Overwrite**
**Save as**

MENU Cancel    OK OK

Zoom/**☒**/**Q** button

**▶** button

Four-way controller

**OK** button

Green button
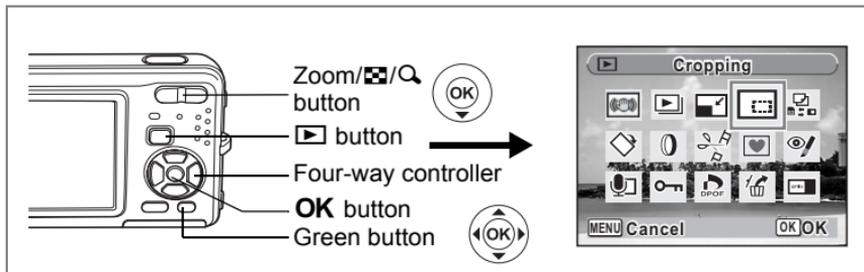
## Cropping Images

You can delete the unwanted part of a picture and save the cropped image as a separate image.

**1** Enter the **▶** mode and use the four-way controller (**◀▶**) to choose the image you want to trim.

**2** Press the four-way controller (**▼**).
The Playback Mode Palette appears.

**3** Use the four-way controller (**▲▼◀▶**) to select **▣** (Cropping).

**4** Press the **OK** button.
The cropping screen appears.

**5** Choose the cropping conditions.

Zoom/**☒**/**Q** button
Changes the size of the cropped section

Four-way controller (**▲▼◀▶**)
Moves the cropping position up, down, left and right

Green button Rotates the cropping frame

**6** Press the **OK** button.
The cropped image is saved with a new file name.
The cropped image is saved in the same quality as the original image.
The number of recorded pixels is selected automatically according to the size of the cropped section.
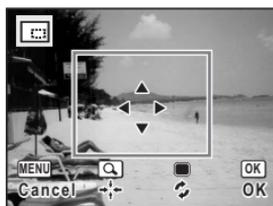
memo    Movies cannot be cropped.

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Image/Sound Copy

MENU Cancel    OK OK
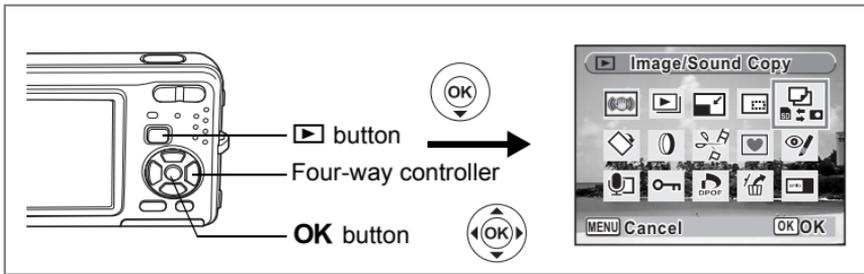
## Copying Images and Sound Files

You can copy images and sound files from the built-in memory to the SD Memory Card and vice versa. This function can only be selected when an SD Memory Card has been inserted in the camera.

> ⚠ **Caution**  Make sure that the camera is turned off before inserting or removing the SD Memory Card.

**1** Press the four-way controller (▼) in ▶ mode.

The Playback Mode Palette appears.

**2** Use the four-way controller (▲ ▼ ◄ ►) to select 🖳 (Image/Sound Copy).

**3** Press the OK button.

The copying method selection screen appears.

### To Copy Files from the Built-in Memory to the SD Memory Card

All the images and sound files in the built-in memory are copied to the SD Memory Card at once. Before copying the images, make sure that there is enough space in the SD Memory Card.

**4** Use the four-way controller (▲ ▼) to select [● ➡ SD].

**5** Press the OK button.

All the images and sound files are copied.



● ➡ SD

SD ➡ ●

Cancel

OK OK

6 Editing and Printing Images

## To Copy Files from the SD Memory Card to the Built-in Memory

Selected images and sound files from the SD Memory Card are copied to the built-in memory one at a time.

**4** Use the four-way controller (▲▼) to select [⑤ᴰ➡●].

**5** Press the OK button.

**6** Use the four-way controller (◀▶) to select the file you want to copy.

**7** Press the OK button.

The selected image/sound file is copied.

memo
- If sound has been recorded with the image, the sound file is copied with the image.
- When a file is copied from the SD Memory Card to the built-in memory, it is assigned a new file name.
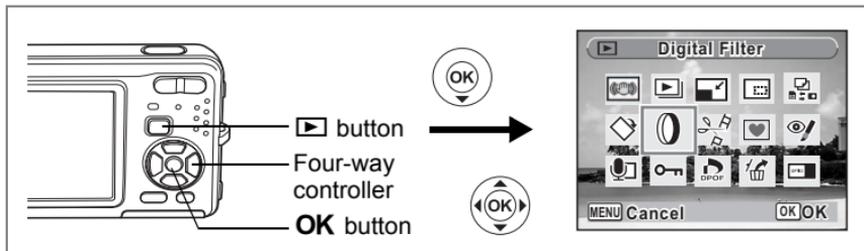
## Using the Digital Filters

This mode lets you change the color tones and perform special processing on a selected image.

### Digital Filters

| | |
|---|---|
| B&W/sepia filter | Processes the image using the selected filter. You can choose from two filters: B&W and sepia. |
| Color filter | Processes the image using the selected color filter. You can choose from six filters: red, pink, purple, blue, green, and yellow. |
| Color extraction filter | Processes the image using the selected color extraction filter. You can choose from three filters: Red,Green, and Blue. |
| Soft filter | Processes the image into a soft image with the entire image blurred. |
| Fisheye filter | Processes the image with a fisheye lens effect. |
| Brightness Filter | Adjusts the brightness of the image. |

**1** Enter the Q mode and use the four-way controller (◄►) to choose the image you want to edit.

**2** Press the four-way controller (▼).
The Playback Mode Palette appears.

**3** Use the four-way controller (▲▼◄►) to select ◑ (Digital Filter).

**4** Press the OK button.
The digital filter selection screen appears.
**1** B&W/sepia filter
**2** Color filter
**3** Color extraction filter
**4** Soft filter
**5** Fisheye filter
**6** Brightness Filter
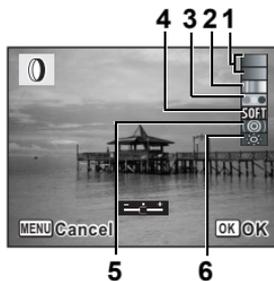
**To Select a B&W/sepia filter or the Soft Filter**

**5** **Use the four-way controller (▲▼) to choose a digital filter.**

You can preview the results of the filter effect.

**6** **Press the OK button.**

A confirmation dialog for overwriting the image appears.

**7** **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

[Save as] is the only available option for protected images.

**8** **Press the OK button.**

Images processed with a B&W/sepia filter or the soft filter are recorded with the same number of recorded pixels and quality level as the original image.

**To Select a Color filter or the Color Extraction Filter**

**5** **Use the four-way controller (▲▼) to choose a digital filter.**

**6** **Use the four-way controller (◀▶) to adjust the effect.**

The color extraction filter changes in the following sequence each time you press the four-way controller (▶): Green, Blue, Red.

**7** **Press the OK button.**

A confirmation dialog for overwriting the image appears.

**8** **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

[Save as] is the only available option for protected images.

**9** **Press the OK button.**

Images processed with a color filter or the color extraction filter are recorded with the same number of recorded pixels and quality level as the original image.

**To Select the Fisheye Filter or the Brightness Filter**

## 5 Use the four-way controller (▲▼) to select the digital filter you want to use.

Use the four-way controller ( ◄ ► ) to adjust the effect.
The fisheye filter effect increases each time you press the four-way controller ( ► ) and decreases each time you press the four-way controller ( ◄ ). For the brightness filter, the brightness increases each time you press the four-way controller ( ► ) and decreases each time you press the four-way controller ( ◄ ).

## 6 Press the OK button.

A confirmation dialog for overwriting the image appears.

## 7 Use the four-way controller (▲▼) to select [Overwrite] or [Save as].

[Save as] is the only available option for protected images.

## 8 Press the OK button.

The edited image is saved with the same number of recorded pixels and quality level as the original.

Movies or images taken with another camera cannot be edited using [Digital Filter]. An error message appears if you choose this function from the Playback Mode Palette and press the OK button.

## Red-eye Compensation

You can correct images where the flash has caused the subject to appear with red eyes.

**1** Enter the ▶ mode and use the four-way controller (◀ ▶) to choose the image you want to correct.

**2** Press the four-way controller (▼).
The Playback Mode Palette appears.

**3** Use the four-way controller (▲ ▼ ◀ ▶) to select ⍥ (Red-eye Compensation).

**4** Press the OK button.
A confirmation dialog for overwriting the image appears.

**5** Use the four-way controller (▲ ▼) to select [Overwrite] or [Save as].
[Save as] is the only available option for protected images.

**6** Press the OK button.
The edited image is saved with the same number of recorded pixels and quality level as the original.

> • The red-eye compensation function cannot be used on movies or on images where red eyes cannot be detected on the camera. An error message appears in Step 4.
> • The red-eye compensation function can only be used with still pictures taken with this camera.

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```
                    Zoom/🔍/🔎
                    button
                    ▣ button
                    Four-way controller

OK button
```
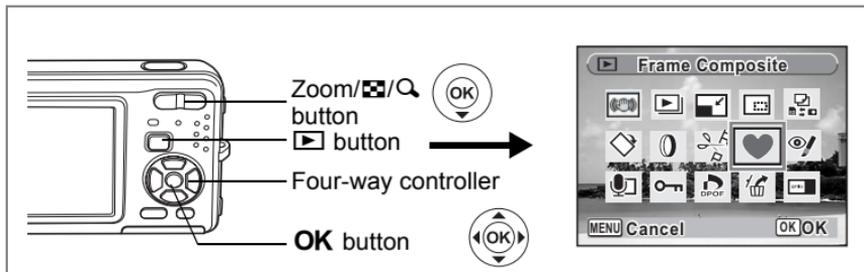
## Adding a Frame (Frame Composite)

This function lets you add a decorative frame to still pictures. There are three frames already stored in the camera.

1 **Enter the ▣ mode and use the four-way controller ( ◀ ▶ ) to choose the image to which you want to add a frame.**

2 **Press the four-way controller ( ▼ ).**
The Playback Mode Palette appears.

3 **Use the four-way controller ( ▲ ▼ ◀ ▶ ) to select 💟 (Frame Composite).**

4 **Press the OK button.**
A 9-frame display of the frame selection screen appears.

5 **Use the four-way controller ( ▲ ▼ ◀ ▶ ) to choose a frame.**

6 **Press the OK button or 🔍 on the Zoom/🔍/🔎 button.**
The selected frame appears in single-image display.
You can choose another frame using either of the following operations.

- Use the four-way controller ( ◀ ▶ ) to choose a different frame.
- Press the **MENU** button or 🔎 on the Zoom/🔍/🔎 button to return to the 9-frame display of the frame selection screen, and then perform Step 5 to choose a different frame.

6

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**144**
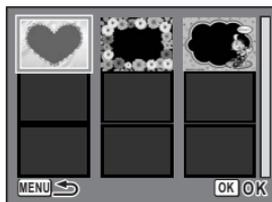
## 7 Press the OK button.

The frame position and size adjustment screen appears. Use the four-way controller (▲ ▼ ◀ ▶) to adjust the position of the image, and use the Zoom/⊞/Q button to make the image larger or smaller.

## 8 Press the OK button.

A confirmation dialog for overwriting the image appears.

## 9 Use the four-way controller (▲ ▼) to select [Overwrite] or [Save as].

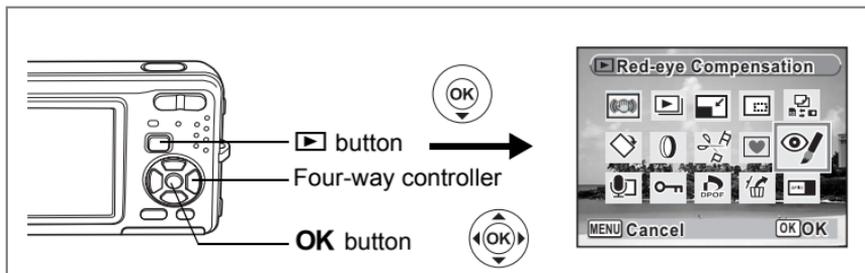[Save as] is the only available option for protected images.

## 10 Press the OK button.

The edited image is saved with the recorded pixels of 3M.

> **Caution**
> The Frame Composite function cannot be used on movies or images of size 2M and smaller. An error message appears in Step 4.

### Using a New Frame

Frames downloaded from a website or other source can be used when adding a frame to pictures. To display the frames available in the built-in memory or the SD Memory Card, in Step 3, select 💟 (Frame Composite) and press the OK button.

> **Caution**
> - The three frames stored in the internal memory cannot be deleted.
> - Up to 96 downloaded frames can be displayed. Including the three frames already stored in the internal memory, you can choose from up to 99 frames.
> - Extract the downloaded frame and copy it to the FRAME folder in the Built-in memory or SD memory card.
> - The FRAME folder is created when the built-in memory or SD memory card is formatted.

Digital SR

MENU Cancel          OK OK

- ▶ button
- Four-way controller
- OK button
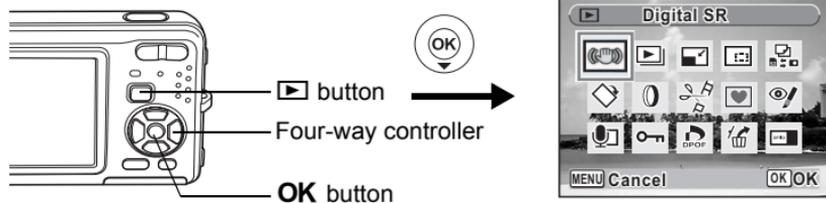
## Editing Movies

You can select a frame from a recorded movie to save as a still picture, divide a movie into two or stitch two movies together.

**1** Enter the ▶ mode and use the four-way controller (◀ ▶) to choose the movie you want to edit.

To stitch two movies together (p.149), choose the first movie (first half).

**2** Press the four-way controller (▼).

The Playback Mode Palette appears.

**3** Use the four-way controller (▲ ▼ ◀ ▶) to select ✂️ (Movie Edit).

**4** Press the OK button.

The movie edit selection screen appears.
Go to the following pages.
- "Saving a Frame from a Movie as a Still Picture" (p.147)
- "Dividing a Movie" (p.148)
- "Stitching Movies" (p.149)

Caution    Protected movies cannot be divided or stitched.
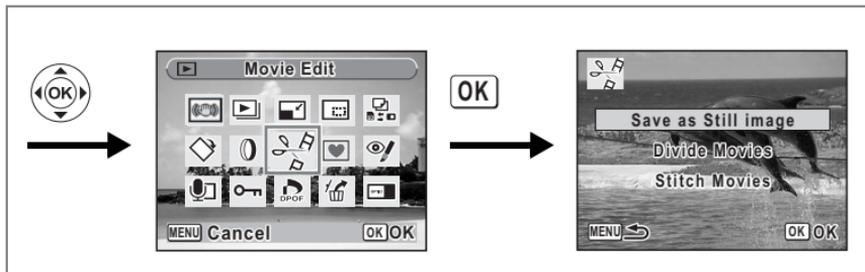
### Saving a Frame from a Movie as a Still Picture

## 5 Select [Save as Still image] on the movie edit selection screen.

## 6 Press the OK button.
The screen appears for selecting a frame to be saved as a still picture.

## 7 Use the four-way controller (▲ ▼ ◄ ►) to choose the frame you want to save.
- ▲ : Plays or pauses the movie
- ▼ : Stops the movie and returns to the first frame
- ◄ : Reverses the movie frame by frame
- ► : Advances the movie frame by frame

## 8 Press the OK button.
The selected frame is saved as a still picture.

**□** button
Four-way controller
**OK** button

$\boxed{\blacktriangleright}$ DPOF

**MENU** Cancel          **OK OK**
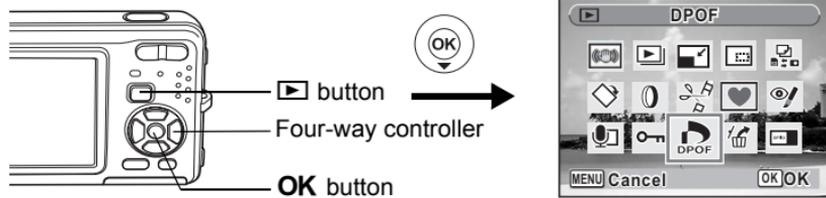
### Dividing a Movie

**5** **Select [Divide Movies] on the movie edit selection screen.**

**6** **Press the OK button.**
The screen for choosing the dividing position appears.

100-0042
00:09

Select image for
dividing position

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**MENU** Cancel          **OK OK**

**7** **Use the four-way controller (▲ ▼ ◄ ►) to determine the dividing position.**

- ▲ : Plays or pauses the movie
- ▼ : Stops the movie and returns to the first frame
- ◄ : Reverses the movie frame by frame
- ► : Advances the movie frame by frame

**8** **Press the OK button.**
A confirmation dialog appears.

**9** **Use the four-way controller (▲ ▼) to select [Divide].**

Divide at this position?

**Divide**
**Cancel**

**OK OK**

**10** **Press the OK button.**
The movie is divided at the specified position, the two portions are saved as new files, and the original one is deleted.
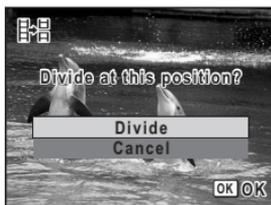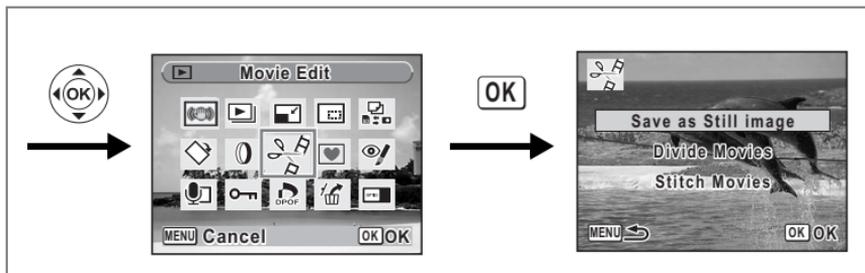
#### Stitching Movies

**5** **Select [Stitch Movies] on the movie edit selection screen.**

**6** **Press the OK button.**
The movie selection screen appears.

**7** **Use the four-way controller ( ◀ ▶ ) to choose the second movie (latter half).**
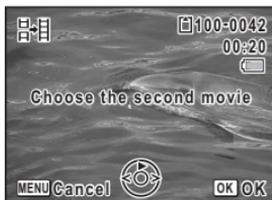
**8** **Press the OK button.**
A confirmation dialog appears.

**9** **Use the four-way controller ( ▲ ▼ ) to select [Stitch].**

**10** **Press the OK button.**
The two selected movies are stitched together and saved in the first movie file. (The movie that was selected as the first half is overwritten by the stitched movie and the movie that was selected as the second half is deleted.)
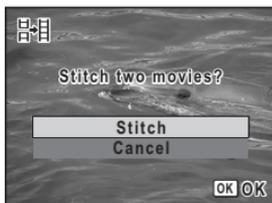
> **Caution**
> • When a stitched movie is played back, it may appear to stop for about one second at the point where the two movies were joined. This is because, in Movie Edit mode, the movie data is edited in units of one second, so if the last frame of the first movie lasts less than one second, it is drawn out to one second when it is joined to the second movie.
> • When two movies are joined together, the second movie file is deleted.

# Setting the Printing Service (DPOF)

DPOF (Digital Print Order Format) is the format for storing print order data on still pictures captured with a digital camera. Once the print order data has been stored, the pictures can be printed according to the DPOF settings using a DPOF-compatible printer or photo processing lab.
You cannot store print order data for movies or sound-only files.
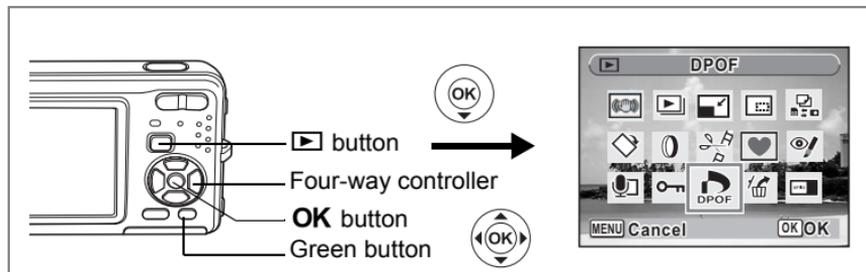


## Printing Single Images

Set the following items for each image.

| Copies | Choose the number of copies up to 99. |
|--------|----------------------------------------|
| Date   | Specify whether you want the date inserted on the print or not. |

**1** In Q mode, press the four-way controller (▼).
The Playback Mode Palette appears.

**2** Use the four-way controller (▲ ▼ ◀ ▶) to select ♪ (DPOF).

**3** Press the **OK** button.
The screen for selecting [Single Image] or [All Images] appears.

**4** Use the four-way controller (▲ ▼) to select [Single Image].

6 Editing and Printing Images

## 5 Press the **OK** button.

The message [DPOF setting for this image] appears.

To make DPOF settings for another image, use the four-way controller ( ◄ ► ) to select another image.

If DPOF settings have already been made for an image, the previous number of copies and date setting ( ☑ or □ ) will be displayed.

## 6 Use the four-way controller ( ▲ ▼ ) to choose the number of copies.

## 7 Use the Green button to choose whether to insert the date or not.

☑ (On) : The date will be imprinted.

□ (Off) : The date will not be imprinted.

To continue setting DPOF print order data, use the four-way controller ( ◄ ► ) to choose another image and repeat Steps 6 and 7.

## 8 Press the **OK** button.

The DPOF settings are saved and the screen returns to the DPOF menu.

> Depending on the printer or printing equipment at the photo processing lab, the date may not be imprinted on the pictures even if ☑ (On) was selected in the DPOF settings.

> To cancel DPOF settings, set the number of copies to [00] in Step 6 and press the **OK** button.

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MENU Cancel    OK OK
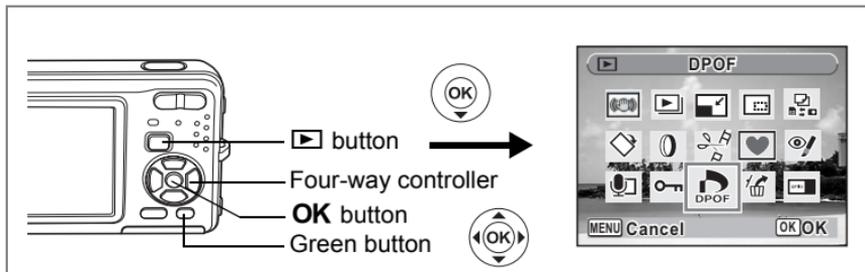
## Printing All Images

When you choose the number of copies and whether or not to insert the date, the settings are applied to all the images stored in the camera.

**1  Display the screen for DPOF settings in ▶ mode.**
Refer to Steps 1 to 3 on p.150.

**2  Use the four-way controller (▲ ▼) to select [All Images].**

**3  Press the OK button.**
The message [DPOF setting for all images] appears.

**4  Choose the number of copies and whether to insert the date or not.**
Refer to Steps 6 and 7 in "Printing Single Images" (p.151) for details of how to make the settings.

DPOF setting for
all images
Copies        01
Date          ☑
□ Date
MENU Cancel    OK OK

**5  Press the OK button.**
The DPOF settings for all the images are saved and the camera returns to the DPOF setting screen.

> The number of copies specified in the DPOF settings applies to all the images. Before printing, check that the number is correct.

> Settings for single images are canceled when settings are made for all images.

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Editing and Printing Images

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# Printing Using PictBridge

By connecting the camera to a printer that supports PictBridge using the USB cable (I-USB7) provided, you can print images directly from the camera without using a PC. Connect the camera to the printer and select the images you want to print and the number of copies on the camera.

> **Caution**
> • You are recommended to use the AC adapter kit K-AC63 when the camera is connected to the printer. The printer may not work properly or the image data may be lost if the battery runs out of power while the camera is connected to the printer.
> • Do not disconnect the USB cable during data transfer.
> • Depending on the model of printer, not all the settings made on the camera (such as print settings and DPOF settings) may be valid.
> • A printing error may occur if the selected number of copies exceeds 500.
> • Printing the index of the images (printing multiple images on a single sheet) cannot be performed directly from the camera. Make the settings on a printer supporting index printing function or use a PC.

## Connecting the Camera to the Printer

**1** **Select [PictBridge] for the [USB Connection] mode on the [✎ Setting] menu.**

Refer to "Changing the USB Connection Mode" (p.174).

**2** **Turn off the camera.**

**3** **Connect the camera to the printer using the USB cable provided.**

**4** **Turn the printer on.**

**5** **When the printer is ready to print, turn the camera on.**

The printing mode selection screen appears.

Select printing mode

All Images
Single Image
DPOF AUTOPRINT

OK OK

## Printing Single Images

**1** **In the printing mode selection screen, use the four-way controller (▲ ▼) to select [Single Image].**

**2** **Press the OK button.**
The setting screen appears.

**3** **Use the four-way controller (◄ ►) to choose an image to print.**

**4** **Use the four-way controller (▲ ▼) to choose the number of copies.**
You can print up to 99 copies.

**5** **Use the Green button to choose whether to insert the date or not.**

☑ (On) : The date will be imprinted.
☐ (Off) : The date will not be imprinted.

**6** **Press the OK button.**
A confirmation dialog appears.
To print the pictures according to the print settings on the printer, press the OK button.
To change the print settings, go to Step 7.

**7** **Press the Green button.**
The screen for changing the print settings appears.

**8** **Select [Paper Size] and press the four-way controller (►).**
The Paper Size screen appears.

*(side text)* Editing and Printing Images 6

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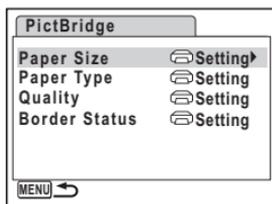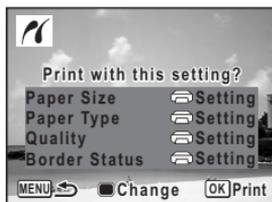
**9** **Use the four-way controller**
**(▲ ▼ ◀ ▶) to choose the paper**
**size.**

You can only choose a size that is
supported by your printer.

| Paper Size | |
|---|---|
| ▭Setting | 2L |
| Card | 8"×10" |
| L | A4 |
| 100×150 | Letter |
| Postcard | 11"×17" |
| 4"×6" | A3 |
| MENU Cancel | OK OK |
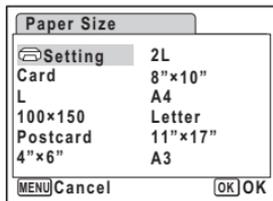
**10** **Press the OK button.**

The Paper Size setting is saved, and the
screen returns to the print settings screen.

**11** **Use the four-way controller (▲ ▼) to select [Paper Type]**
**and press the four-way controller (▶).**

A pull-down menu appears.

**12** **Use the four-way controller (▲ ▼) to select the paper**
**type and press the OK button.**

The Paper Type setting is saved, and the screen returns to the print
settings screen. Set [Quality] and [Border Status] in the same way as
in Steps 11 and 12.

If you select [▭ Setting] for each print setting, images are printed
according to the settings made on the printer.

Paper Type with more ★ supports higher quality paper.

Quality with more ★ indicates higher print quality.

A confirmation dialog appears after each item has been set.

**13** **Press the MENU button.**

The screen returns to the confirmation dialog.

**14** **Press the OK button.**

The image is printed according to the settings.
Press the MENU button to cancel printing.

memo
- The power indicator lights while the camera is communicating with
  the printer, and blinks while the card is being accessed and during
  printing. Do not disconnect the USB cable while the power
  indicator is blinking.
- The [Paper Size], [Paper Type], [Quality] and [Border Status]
  settings are reset to the defaults when the camera is turned off.

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Editing and Printing Images

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## Printing All Images

**1** **In the printing mode selection screen, use the four-way controller (▲ ▼) to select [All Images].**

Select printing mode

**All Images**
Single Image
DPOF AUTOPRINT

OK OK
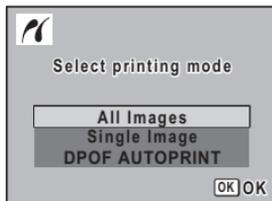
**2** **Press the OK button.**

The setting screen appears.

**3** **Choose the number of copies and whether to insert the date or not.**

The number of copies and date setting that you choose apply to all the images.

Refer to Steps 4 and 5 in "Printing Single Images" (p.154) for details of how to make the settings.
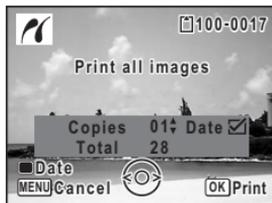
100-0017

Print all images

Copies    01 Date ☑
Total      28

Date
MENU Cancel          OK Print

**4** **Press the OK button.**

A confirmation dialog appears.
Refer to Steps 7 to 11 of "Printing Single Images" (p.154 and p.155) for details of changing print settings.

**5** **Press the OK button on the print settings confirmation screen.**

All the images are printed according to the settings.
Press the **MENU** button to cancel printing.

## Printing Using the DPOF Settings

**1** **In the printing mode selection screen, use the four-way controller (▲▼) to select [DPOF AUTOPRINT].**

**2** **Press the OK button.**

The DPOF settings you have made appear. Use the four-way controller (◄►) to check the number of copies for each picture, whether to insert the date or not, and the total number of copies. Refer to p.150 for instructions on how to make the DPOF settings.
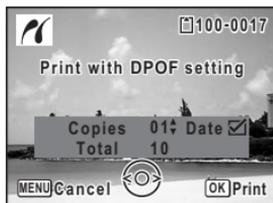


```
                        100-0017
Print with DPOF setting

            Copies    01    Date ☑
            Total     10

MENU Cancel    ◀◎▶    OK Print
```

**3** **Press the OK button.**

A confirmation dialog appears.
Refer to Steps 7 to 11 of "Printing Single Images" (p.154 and p.155) for details of changing print settings.

**4** **Press the OK button.**

The images are printed according to the settings.
Press the **MENU** button to cancel printing.

## Disconnecting the Cable from the Printer

Disconnect the USB cable from the camera and printer when you have finished printing.

**1** **Turn off the camera.**

**2** **Disconnect the USB cable from the camera and printer.**

You can record sound with the camera. The microphone is located on the front of the camera. When recording sound, aim the camera to obtain the best conditions.
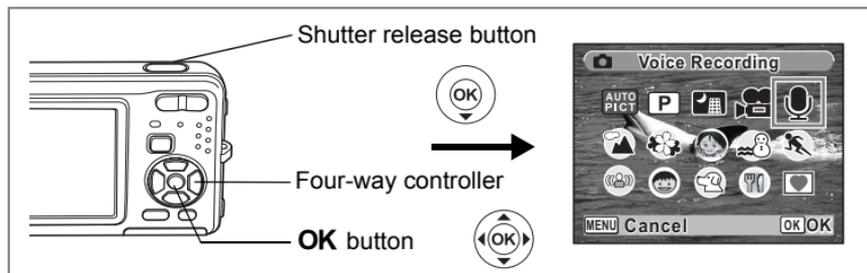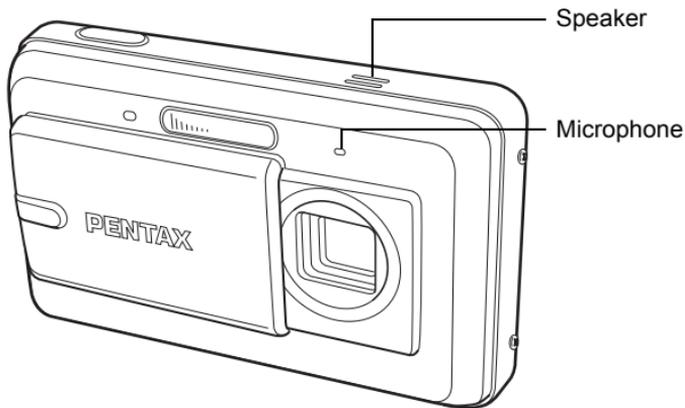
Speaker

Microphone

PENTAX

Shutter release button

Four-way controller

**OK** button

**Voice Recording**

AUTO PICT P

MENU Cancel    OK OK

**1 Press the four-way controller (▼) in A mode.**
The Capture Mode Palette appears.

**2 Use the four-way controller (▲ ▼ ◄ ►) to select ꝑ (Voice Recording).**

# 3 Press the OK button.

The remaining recordable time and the recording time of the current file appear on the LCD monitor.
- **1** Recording time
- **2** Remaining recordable time

## 4 Press the shutter release button fully.

Recording starts. The self-timer lamp blinks during recording.

You can record sounds continuously for up to 24 hours.

When the Green button is pressed during recording, an index is added to the current sound file.

## 5 Press the shutter release button fully.

Recording stops.

memo
- If you press and hold down the shutter release button for more than one second in Step 4, recording continues until you take your finger off the button. This is useful for making short sound recordings, such as for the user sound in the [Sound] menu.
- Sound is saved in WAVE monaural files.
- Pressing the OK button clears the voice recording screen from the LCD monitor. Press the OK button again to display the voice recording screen.

# Playing Back Sound

You can play back the sound files you made in $\Phi$ mode.



Zoom/♦♦♦/ ♦ button

▶ button

Four-way controller
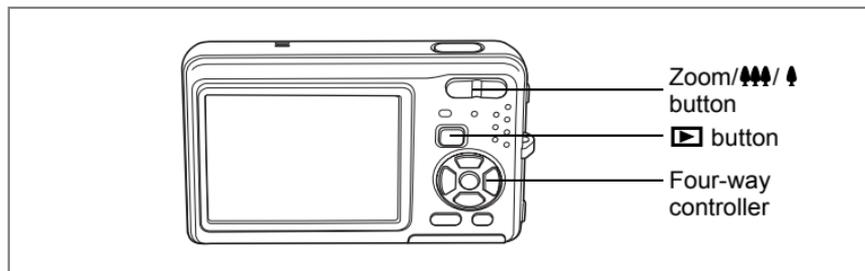
**1 Press the ▶ button.**

**2 Use the four-way controller (◄ ►) to choose a sound file to play back.**

**3 Press the four-way controller (▲).**

The sound file is played back.

**1** Total file recording time
**2** Playback time
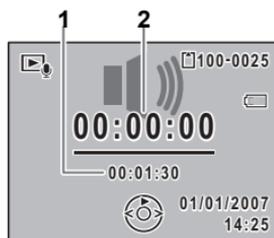


**The following operations can be performed during playback.**

Four-way controller (▲)    Pauses playback
Zoom/♦♦♦/ ♦ button ( ♦ )    Increases the volume
Zoom/♦♦♦/ ♦ button (♦♦♦)    Reduces the volume

If there are no recorded indexes:

Four-way controller (◄)    Reverses playback
Four-way controller (►)    Fast forwards playback

If there are recorded indexes:

Four-way controller (◄)    Plays back starting from the previous index
Four-way controller (►)    Plays back starting from the next index

**The following operations can be performed while playback is paused.**

Four-way controller (▲)    Resumes playback
Four-way controller (◄)    Rewinds approx. 5 seconds
Four-way controller (►)    Advances approx. 5 seconds

**4 Press the four-way controller (▼).**

Playback stops.

7

Recording and Playing Back Sound

**160**

# Adding a Voice Memo to Images

You can add a voice memo to your still pictures.



Four-way controller

**OK** button

Digital SR
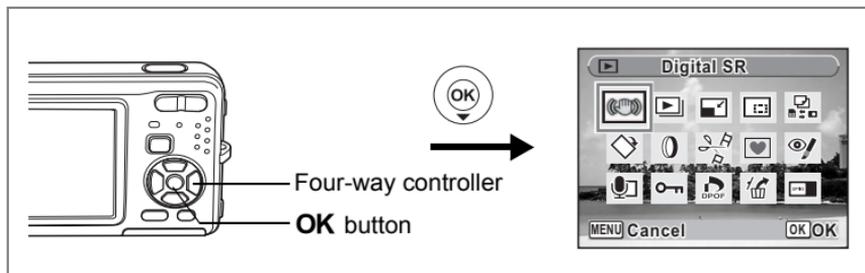
## Recording a Voice Memo

**1** Enter ▣ mode and use the four-way controller ( ◀ ▶ ) to choose the still picture to which you want to add a voice memo.

**2** Press the four-way controller ( ▼ ).
The Playback Mode Palette appears.

**3** Use the four-way controller
( ▲ ▼ ◀ ▶ ) to select ₪ (Voice Memo).

**4** Press the **OK** button.
Recording starts. You can record a voice memo continuously for up to 24 hours.

**5** Press the **OK** button.
Recording stops.

memo
- A voice memo cannot be added to an image that already has a voice memo or that was taken in Synchro Sound Record mode. Delete the old voice memo and record a new one. (p.128)
- A voice memo cannot be added to protected (○┓) images (p.133).

7

Recording and Playing Back Sound

**161**

Zoom/♦♦♦/♦
button

▶ button

Four-way
controller
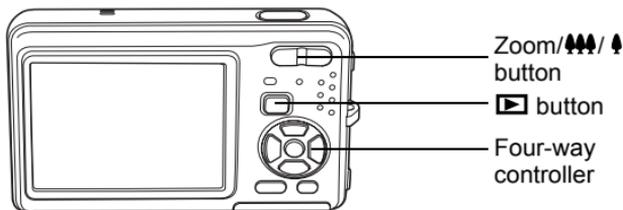
## Playing Back a Voice Memo

**1** **Enter ▶ mode and use the four-way controller ( ◀ ▶ ) to choose the still picture with the voice memo that you want to play back.**

□ appears on images with voice memos in single-image display.



**2** **Press the four-way controller (▲).**

Playback starts.

**The following operations can be performed during playback.**

Zoom/♦♦♦/♦ button ( ♦ )   Increases the volume
Zoom/♦♦♦/♦ button ( ♦♦♦ )   Reduces the volume

**3** **Press the four-way controller (▼).**

Playback stops.

memo

Sound files for images taken in Synchro Sound Record mode can be played back in the same manner.

Deleting a Sound File ☞p.128

# Camera Settings

How to display the [ \ Setting] menu

Four-way controller

OK button

MENU button

**MENU**

◀(OK)▶

| 🅾 ┊◀ Setting | 1/3 |
|---|---|
| Format | |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | ☐ |
| World Time | ⌂ |
| Language/言語 | English |
| **MENU** Exit | |
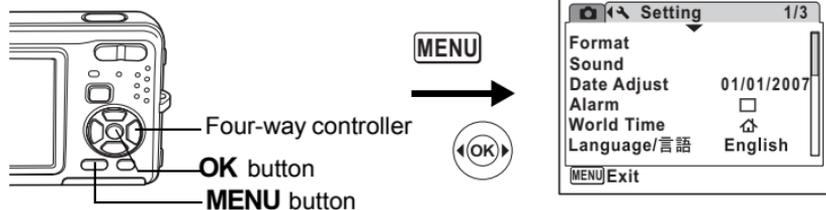
## Formatting an SD Memory Card or the Built-in Memory

Formatting will delete all the data on the SD Memory Card.
All the data in the built-in memory will be deleted if no SD Memory Card is inserted in the camera.

> **Caution**
> • Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
> • Formatting will delete protected images and any data recorded on the card with a camera other than this camera.
> • SD Memory Cards formatted on a PC or device other than the camera cannot be used. Be sure to format the card with the camera.

1 **Use the four-way controller (▲▼) to select [Format] on the [ \ Setting] menu.**

2 **Press the four-way controller (▶).**
The Format screen appears.

3 **Use the four-way controller (▲▼) to select [Format].**

4 **Press the OK button.**
When formatting is completed, the camera returns to Capture mode or Playback mode.

| Format |
|---|
| All data deleted |
| **Format** |
| Cancel |
| **OK** OK |

```
┌─────────────────────────────┐
│ ●│✎ Setting          1/3    │
│                   ▼         │
│ Format                      │
│ Sound                       │
│ Date Adjust      01/01/2007 │
│ Alarm               □       │
│ World Time          ⌂       │
│ Language/言語       English │
│                             │
│ MENU Exit                   │
└─────────────────────────────┘
```

**MENU**

Four-way controller

**MENU** button
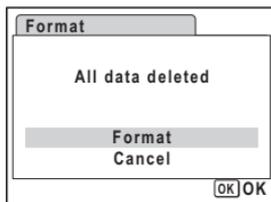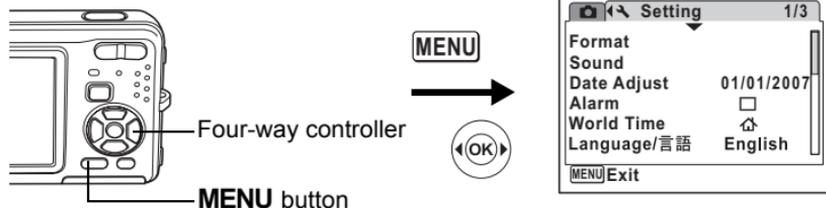
## Changing the Date and Time

You can change the initial date and time settings. You can also set the style in which the date appears on the camera.

**1** Use the four-way controller (▲▼) to select [Date Adjust] on the [✎ Setting] menu.

**2** Press the four-way controller (▶).
The Date Adjust screen appears.

```
┌─────────────────────────────┐
│ Date Adjust                 │
│                             │
│ Date Style  ▶mm/dd/yy 24h   │
│                             │
│ Date         01/01/2007     │
│                             │
│ Time         0:00           │
│                             │
│ MENU Cancel        OK OK    │
└─────────────────────────────┘
```
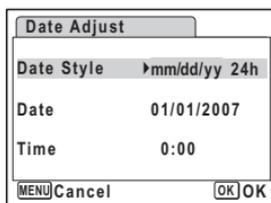
**3** Press the four-way controller (▶).
The frame moves to [mm/dd/yy].
Depending on the initial setting or previous setting, [dd/mm/yy] or [yy/mm/dd] may be displayed.

```
┌─────────────────────────────┐
│ Date Adjust                 │
│                    ▲        │
│ Date Style  ◀ mm/dd/yy 24h  │
│                    ▼        │
│ Date         01/01/2007     │
│                             │
│ Time         0:00           │
│                             │
│ MENU Cancel        OK OK    │
└─────────────────────────────┘
```
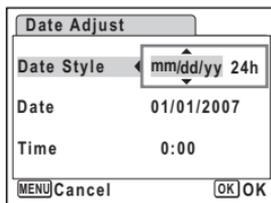
**4** Use the four-way controller (▲▼) to choose the date and time display style.
Choose [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

**5** Press the four-way controller (▶).
The frame moves to [24h].

```
┌─────────────────────────────┐
│ Date Adjust                 │
│                       ▲     │
│ Date Style  ◀ mm/dd/yy 24h  │
│                       ▼     │
│ Date         01/01/2007     │
│                             │
│ Time         0:00           │
│                             │
│ MENU Cancel        OK OK    │
└─────────────────────────────┘
```

**6** Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).
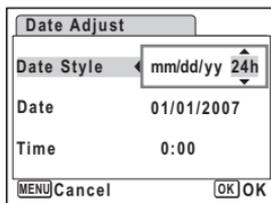
## 7 Press the four-way controller (▶).

The frame returns to [Date Style].

## 8 Press the four-way controller (▼).

The frame moves to [Date].

| Date Adjust | |
|---|---|
| Date Style | mm/dd/yy 24h |
| Date | ▶01/01/2007 |
| Time | 0:00 |
| MENU Cancel | OK OK |
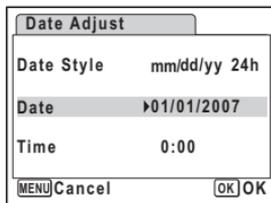
## 9 Press the four-way controller (▶).

The frame moves to one of the following items depending on the date style set in Step 4.

For [mm/dd/yy] month (Example: [01])
For [dd/mm/yy] day (Example: [01])
For [yy/mm/dd] year (Example: [2007])

| Date Adjust | |
|---|---|
| Date Style | mm/dd/yy 24h |
| Date | ◀ 01/01/2007 |
| Time | 0:00 |
| MENU Cancel | OK OK |

The following operations and screens use [mm/dd/yy] as an example. The operations are the same even if another date style has been selected.
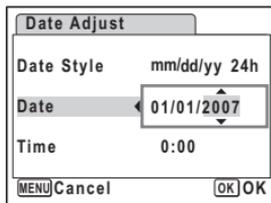
## 10 Use the four-way controller (▲▼) to change the month.

## 11 Press the four-way controller (▶).

The frame moves to the day field. Use the four-way controller (▲▼) to change the day. After changing the day, change the year in the same manner.

## 12 Change the time in the same way as in Steps 7 to 10.

If you selected [12h] in Step 6, the setting switches between am and pm corresponding to the time.

## 13 Press the OK button.

The date and time settings are saved.

memo    When you finish the settings and press the OK button, the camera clock is reset to 00 seconds. To set the exact time, press the OK button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

8

Settings

How to display the [✦ Setting] menu



| MENU |
| Four-way controller |
| **OK** button |
| **MENU** button |

```
🔲 ◀✦ Setting        1/3
         ▼
Format
Sound
Date Adjust        01/01/2007
Alarm              ☐
World Time         ⌂
Language/言語        English

MENU Exit
```
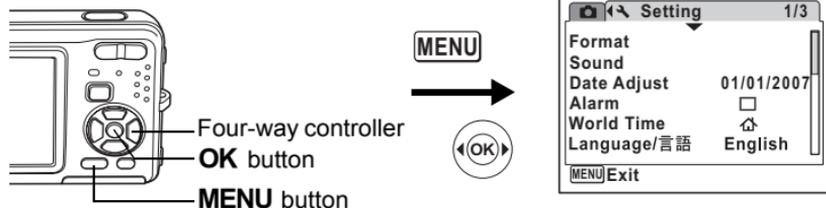
## Changing the Sound Settings

You can adjust the volume of operation sounds and change the type of sound.

**1** Use the four-way controller (▲▼) to select [Sound] on the [✦ Setting] menu.

**2** Press the four-way controller (▶).

The Sound screen appears.

```
Sound

Operation Volume ◀🔊━━ ▶
Playback Volume   🔊━━
Start-up Sound    1
Shutter Sound     1
Operation Sound   1
Self-timer Sound  1

MENU ↰
```
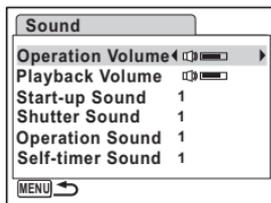
**Changing the Operation Volume/Playback Volume**

**3** Use the four-way controller (▲▼) to select [Operation Volume].

**4** Use the four-way controller (◀▶) to adjust the volume.

The selected volume is saved.
Set the volume to 0 to mute the start-up sound, shutter sound, operation sound, and self-timer sound.

**5** Change [Playback Volume] in the same way as in Steps 3 to 4.

**Changing the Sound Type**

**6** **Use the four-way controller (▲ ▼) to select [Start-up Sound].**

**7** **Press the four-way controller (►).**
A pull-down menu appears.

**8** **Use the four-way controller (▲ ▼) to select [1], [2], [3], [Off] or [USER] and press the OK button.**
The selected sound type is saved.

**9** **Set [Shutter Sound], [Operation Sound] and [Self-timer Sound] in the same way as in Steps 6 to 8.**

**10** **Press the MENU button.**
The setting is changed and the screen returns to the [✎ Setting] menu.

**Setting the User Sound**

You can set the first two seconds of your favorite recorded sound as the user sound and then use this as the start-up sound or shutter sound. The sound to be used is recorded with the camera. (p.158)

**1** **Select [USER] in Steps 8 and 9 above.**

**2** **Press the OK button.**
The Playback screen appears if a sound that can be used as the user sound has been saved in the camera. USER appears for the sound set as the user sound.

**3** **Use the four-way controller (◄ ►) to choose a sound file.**

Four-way controller (▲)    Plays back the first two seconds of the sound file
Four-way controller (▼)    Stops playback

**4** **Press the OK button.**
The selected sound is set as the user sound for the start-up sound or shutter sound.

How to display the [ ✎ Setting] menu

**MENU**

Four-way controller
**OK** button

**MENU** button

| ◯ ✎ Setting | 1/3 |
| --- | --- |
| Format | |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | ☐ |
| World Time | ⌂ |
| Language/言語 | English |

**MENU** Exit
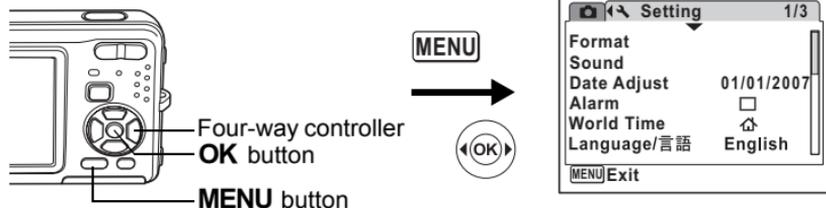
## Setting the Alarm

You can set the alarm to ring at a specified time.
You can choose whether the alarm will ring at the same time every day or only once at the set time.

### Setting the Alarm

**1** Use the four-way controller (▲▼) to select [Alarm] on the [ ✎ Setting] menu

**2** Press the four-way controller (▶).
The Alarm screen appears.

**3** Press the four-way controller (▶).
A pull-down menu appears.

**4** Use the four-way controller (▲▼) to select [Off], [Once] or [Everyday] and press the **OK** button.

| △ Alarm | 14:25 |
| --- | --- |
| Alarm | ▶Off |
| Time | 0:00 |

**MENU** Cancel　　　**OK** OK

**5** Press the four-way controller (▼).
Next, set the [Time].

**6** Press the four-way controller (▶).
The frame moves to the hour field.

**7** Use the four-way controller (▲▼) to change the hour, then press (▶).
The frame moves to the minute field.
Change the minutes in the same manner.

8

Settings

**168**
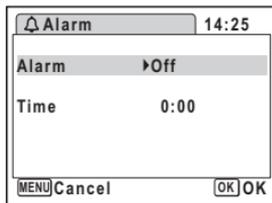
## 8 Press the OK button twice.

The screen returns to the [✦ Setting] menu.
Check that [Alarm] is set to ☑ (On).

## 9 Press the OK button.

[Alarm is set] appears and the camera turns off.

```
┌─────────────────────────────┐
│ ◘ ✦ Setting          1/3    │
│ Format                      │
│ Sound                       │
│ Date Adjust    01/01/2007   │
│ Alarm          ☑        ▶   │
│ World Time     ⌂            │
│ Language/言語   English      │
│ MENU Exit                   │
└─────────────────────────────┘
```
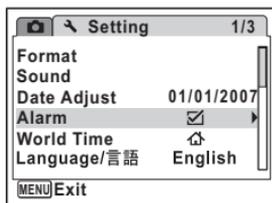
### Checking the Alarm

**1** Use the four-way controller (▲▼) to select [Alarm] on the [✦ Setting] menu.

Check that [Alarm] is set to ☑ (On).

**2** Press the four-way controller (▶).

The Alarm screen appears.
Check the alarm frequency and time.

```
┌─────────────────────────────┐
│ △ Alarm             14:25   │
│                             │
│ Alarm        ▶Once          │
│                             │
│ Time         17:30          │
│                             │
│ MENU Cancel         OK OK   │
└─────────────────────────────┘
```

**3** Press the MENU button twice.

The camera returns to capture status.
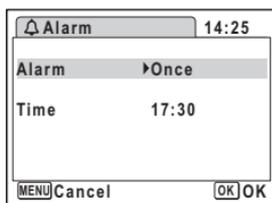
### Turning the Alarm Off

The Clock mode screen appears and the alarm rings for one minute when the set time is reached while the camera is turned off.
You can stop the alarm by pressing any button on the camera while the alarm is ringing.

```
┌─────────────────────────────┐
│ 3/25 SUN.                   │
│                             │
│                             │
│                             │
│ △              PM 2:25      │
└─────────────────────────────┘
```
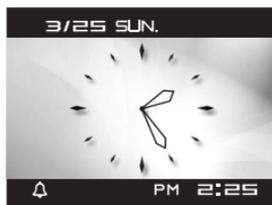
> **Caution**: The alarm will not ring if the camera is on when the set time is reached.

8

**Settings**

**169**

Four-way controller

**OK** button

**MENU** button

| ◻ ✎ Setting | 1/3 |
|---|---|
| Format | |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | ◻ |
| World Time | ⌂ |
| Language/言語 | English |

**MENU** **Exit**
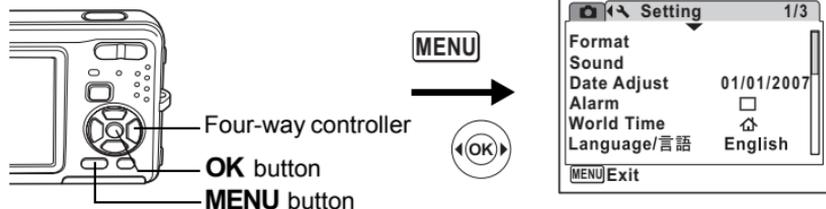
## Setting the World Time

The date and time selected in "Setting the Date and Time" (p.36) and "Changing the Date and Time" (p.164) serve as the ⌂ (Hometown) date and time. By using the world time function, you can display the time in a city other than the Hometown (✈ Destination). This is useful when taking pictures in a different time zone.

**Setting the Destination**

1   **Use the four-way controller (▲▼) to select [World Time] on the [✎ Setting] menu.**

2   **Press the four-way controller (▶).**
    The World Time screen appears.

3   **Use the four-way controller (▲▼) to select ✈ (Destination).**

| World Time | |
|---|---|
| Select time | ▶ ⌂ |
| ✈ Destination | D̄S̄T̄ OFF |
| NewYork | 14:25 |
| ⌂ Hometown | D̄S̄T̄ OFF |
| NewYork | 14:25 |

**MENU** ↰

4   **Press the four-way controller (▶).**
    The Destination screen appears. The city that is currently selected blinks on the map.

5   **Use the four-way controller (◀▶) to change the Destination city.**
    The current time, location and time difference of the selected city appear.

| ✈ Destination | 14:25 |
|---|---|

City    ◀ New York    ▶
DST     ◻    TimeDif. ±0:00
**MENU** Cancel    **OK** OK

6   **Use the four-way controller (▲▼) to select [DST].**

7   **Use the four-way controller (◀▶) to select ☑ (On) or ◻ (Off).**
    Select ☑ (On) if the Destination city uses daylight saving time.

## 8 Press the **OK** button.

The World Time setting is saved.

## 9 Press the **MENU** button twice.

The camera returns to capture status with the current setting.

memo

Select ⌂ (Hometown) in Step 3 of p.170 to set the city and DST setting for the Hometown city.

**Displaying the Time of the Destination on the LCD Monitor (Select Time)**

## 1 Use the four-way controller (▲▼) to select [World Time] on the [✎ Setting] menu.

## 2 Press the four-way controller (►).

The World Time screen appears.

## 3 Use the four-way controller (▲▼) to select [Select time].

| World Time | |
|---|---|
| Select time | ► ⌂ |
| ✈Destination | DST |
| London | 20:25 |
| ⌂Hometown | DST<br>OFF |
| NewYork | 14:25 |
| MENU ⤺ | |

## 4 Press the four-way controller (►).

A pull-down menu appears.

## 5 Use the four-way controller (▲▼) to select ✈ (Destination) or ⌂ (Hometown).

| World Time | |
|---|---|
| Select time | ◄ ✈ |
| | ⌂ |
| ✈Destination | DST |
| London | 20:25 |
| ⌂Hometown | DST<br>OFF |
| NewYork | 14:25 |
| MENU ⤺ | OK OK |
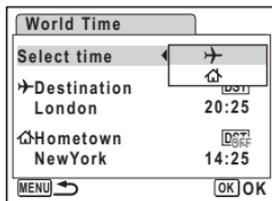
✈ : Displays the time in the city selected as the Destination city

⌂ : Displays the time in the city selected as the Hometown city

## 6 Press the **OK** button.

The Select time setting is saved.

## 7 Press the **MENU** button twice.
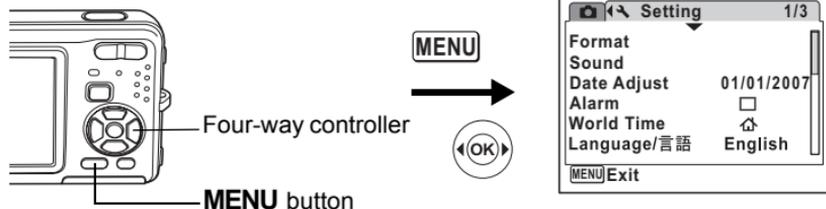
The camera returns to ● mode or ► mode. ✈ (Destination) appears on the LCD monitor when the camera returns to ● mode and World Time is selected.



01/01/2007
✈ 20:25

How to display the [ ✎ Setting] menu



MENU

Four-way controller

MENU button

```
┌──────────────────────┐
│ 🔲 ✎ Setting     1/3 │
│        ▼             │
│ Format               │
│ Sound                │
│ Date Adjust  01/01/2007│
│ Alarm          □     │
│ World Time     ⌂     │
│ Language/言語  English│
│ MENU Exit            │
└──────────────────────┘
```

## Changing the Display Language

You can change the language in which the menus, error messages, etc. are displayed.

The camera supports the following 17 languages: English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Russian, Thai and Japanese.

**1** **Use the four-way controller (▲ ▼) to select [Language/言語] on the [✎ Setting] menu.**

**2** **Press the four-way controller (▶).**

The Language/言語 screen appears.

**3** **Use the four-way controller (▲ ▼ ◀ ▶) to select the language.**

**4** **Press the OK button.**

The selected language is set to be displayed.

```
┌──────────────────────┐
│ Language/言語        │
│ English  Dansk  Русский│
│ Français Svenska  ไทย │
│ Deutsch  Finnish  日本語│
│ Español  Polish      │
│ Português Czech      │
│ Italiano Hungarian   │
│ Nederlands Türkçe    │
│ MENU Cancel    OK OK │
└──────────────────────┘
```

```
                                         ◯✎ Setting      1/3
                                         ▼
                         MENU            Format
                                         Sound
                                         Date Adjust    01/01/2007
Four-way controller                      Alarm            □
                                         World Time       ⌂
OK button                                Language/言語    English
MENU button                              MENU Exit
```
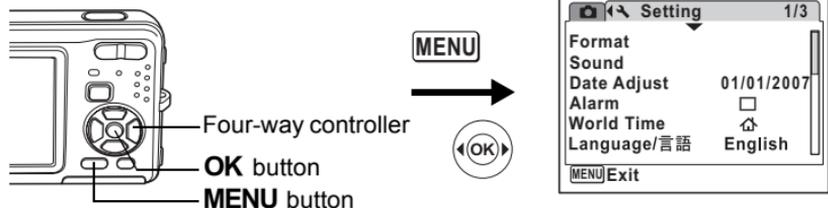
## Changing the Image Folder Name

You can change the image folder name to Standard or Date that pictures were taken. When the name is changed to the date, pictures are saved in separate folders by the date they were taken.
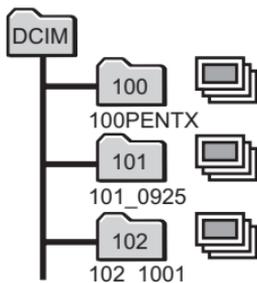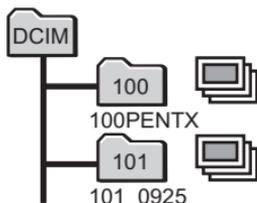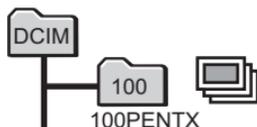
**Folder Name**

| Standard | xxxPENTX (where xxx is the 3-digit folder number) |
|---|---|
| Date | xxx_mmdd (3-digit folder number_month day) <br> * xxx_ddmm (3-digit folder number_day month) when the date style is set to [dd/mm/yy] |

Picture taken with standard folder name (Example: September 25)

Folder name changed to date setting (Example: September 25)

Next time a picture is taken (Example: October 1)

```
DCIM                 DCIM                 DCIM

  100                  100                  100
100PENTX             100PENTX             100PENTX

                       101                  101
                     101_0925             101_0925

                                            102
                                          102_1001
```

• Up to 900 folders can be created.
• Up to 999 images or sounds can be saved in a folder.

1. **Use the four-way controller (▲▼) to select [Folder Name] on the [✎ Setting] menu.**

2. **Press the four-way controller (▶).**
   A pull-down menu appears.

3. **Use the four-way controller (▲▼) to select [Standard] or [Date].**

4. **Press the OK button.**
   The Folder Name setting is saved.

8

Settings

**173**

How to display the [✎ Setting] menu

```
┌─────────────────────────────┐
│ 🔒 ✎ Setting          1/3  │
│                       ▼     │
│ Format                      │
│ Sound                       │
│ Date Adjust      01/01/2007 │
│ Alarm                  ☐    │
│ World Time            ⌂     │
│ Language/言語     English   │
│                             │
│ MENU Exit                   │
└─────────────────────────────┘
```

MENU

Four-way controller

◀(OK)▶

OK button
MENU button
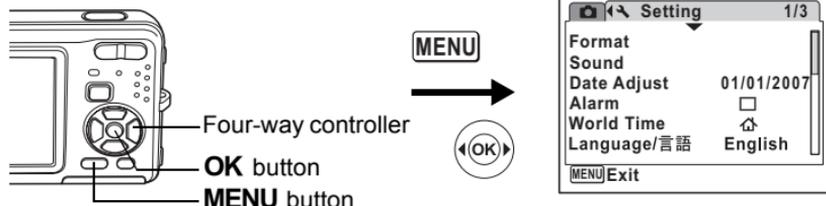
## Changing the USB Connection Mode

Choose the appropriate USB connection mode depending on whether you are going to connect the USB cable to a PC or a PictBridge-compatible printer.
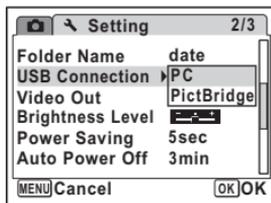
memo
> Refer to the PC Connection Manual for instructions on connecting the camera to a computer.

**1** Use the four-way controller (▲▼) to select [USB Connection] on the [✎ Setting] menu.

**2** Press the four-way controller (▶).
A pull-down menu appears.

**3** Use the four-way controller (▲▼) to select [PC] or [PictBridge].

[PC]        : Select this option when transferring image data to a computer
[PictBridge] : Select this option when connecting the camera to a PictBridge-compatible printer
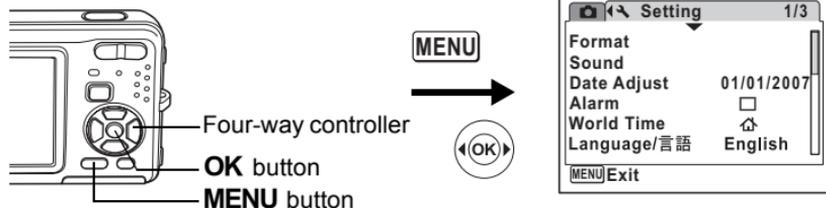
```
┌─────────────────────────────┐
│ 🔒 ✎ Setting          2/3  │
│ Folder Name       date      │
│ USB Connection ▶ │PC      │ │
│ Video Out         │PictBridge│ │
│ Brightness Level  ▭▬▬▭     │
│ Power Saving      5sec      │
│ Auto Power Off    3min      │
│ MENU Cancel         OK OK    │
└─────────────────────────────┘
```

**4** Press the OK button.
The USB Connection setting is saved.

⚠️ Caution
> Do not connect the camera to your PC while [PictBridge] is selected for the USB Connection mode. And do not connect the camera to your printer while [PC] is selected.

How to display the [✎ Setting] menu



MENU

Four-way controller

OK button

MENU button

| ✎ Setting | 1/3 |
| --- | --- |
| Format | |
| Sound | |
| Date Adjust | 01/01/2007 |
| Alarm | ☐ |
| World Time | ⌂ |
| Language/言語 | English |
| MENU Exit | |

## Changing the Video Output Format

When you connect the camera to AV equipment, choose the appropriate video output format (NTSC or PAL) for taking and playing back images.

**1** **Use the four-way controller (▲▼) to select [Video Out] on the [✎ Setting] menu.**

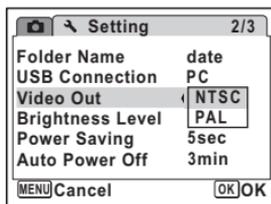**2** **Press the four-way controller (▶).**

A pull-down menu appears.

**3** **Use the four-way controller (▲▼) to select [NTSC] or [PAL].**

Choose the video output format to match the output format of the AV equipment.
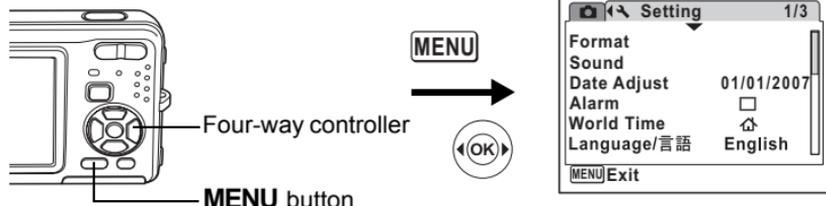
**4** **Press the OK button.**

The Video Out setting is saved.

| ✎ Setting | 2/3 |
| --- | --- |
| Folder Name | date |
| USB Connection | PC |
| Video Out | NTSC |
| Brightness Level | PAL |
| Power Saving | 5sec |
| Auto Power Off | 3min |
| MENU Cancel | OK OK |

memo

Depending on the country or region, images and sound files may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting.

Connecting the Camera to AV Equipment ☞p.126
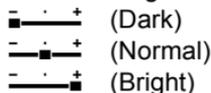
How to display the [✎ Setting] menu



**MENU**

Four-way controller

**MENU** button

| ◘ | ✎ Setting | 1/3 |
|---|---|---|
| Format | | |
| Sound | | |
| Date Adjust | | 01/01/2007 |
| Alarm | | ☐ |
| World Time | | ⌂ |
| Language/言語 | | English |

**MENU** Exit

## Adjusting the Brightness of the LCD Monitor

You can adjust the brightness of the LCD monitor.

**1**   **Use the four-way controller (▲▼) to select [Brightness Level] on the [✎ Setting] menu.**

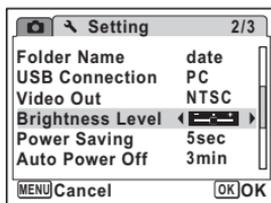**2**   **Use the four-way controller (◀▶) to adjust the brightness.**

The following setting is saved.

- ▬▬▬·▬⁺   (Dark)
- ▬▬▪▬·▬⁺   (Normal)
- ▬▬▬·▪⁺   (Bright)

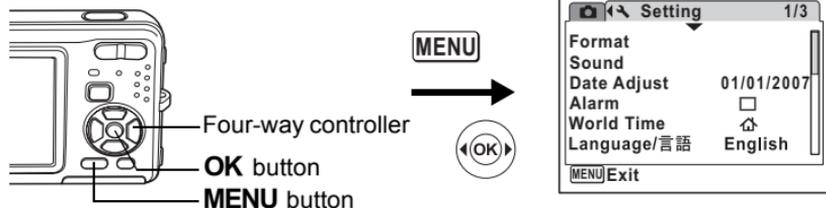| ◘ | ✎ Setting | 2/3 |
|---|---|---|
| Folder Name | | date |
| USB Connection | | PC |
| Video Out | | NTSC |
| Brightness Level | ◀ ▬▬▬ ▶ | |
| Power Saving | | 5sec |
| Auto Power Off | | 3min |

**MENU** Cancel          **OK** OK

**3**   **Press the MENU button.**

The camera returns to Capture mode or Playback mode.
The LCD monitor is displayed with the set brightness. To change the brightness setting, perform the above steps again.
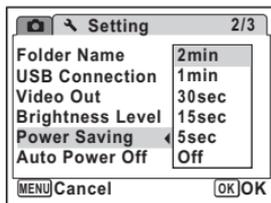
8 Settings

**176**

How to display the [✈ Setting] menu

```
┌──────────────────────┐
│ ▣ │✈ Setting    1/3  │
│         ▼            │
│ Format               │
│ Sound                │
│ Date Adjust  01/01/2007│
│ Alarm        □       │
│ World Time   ⌂       │
│ Language/言語 English │
│ MENU Exit            │
└──────────────────────┘
```

MENU

Four-way controller

OK button

MENU button

◀(OK)▶

## Using the Power Saving Function

You can save battery power by setting the LCD monitor to dim automatically when no operation is performed for a fixed time. After the power saving function has been activated, the LCD monitor returns to the ordinary brightness by pressing any of the buttons.

**1** Use the four-way controller (▲▼) to select [Power Saving] on the [✈ Setting] menu.

**2** Press the four-way controller (▶).

A pull-down menu appears.

**3** Use the four-way controller (▲▼) to select [2min], [1min], [30sec], [15sec], [5sec] or [Off].

```
┌──────────────────────┐
│ ▣ │✈ Setting    2/3  │
│ Folder Name    2min  │
│ USB Connection 1min  │
│ Video Out      30sec │
│ Brightness Level 15sec│
│ Power Saving ◀ 5sec  │
│ Auto Power Off Off   │
│ MENU Cancel    OK OK │
└──────────────────────┘
```
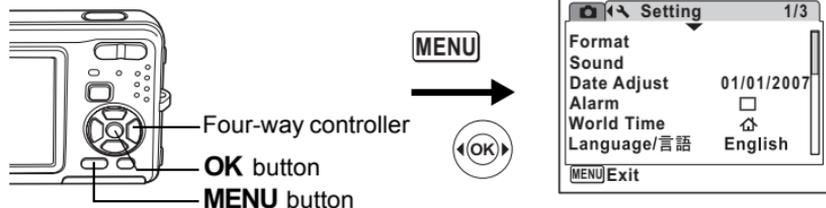
**4** Press the OK button.

The Power Saving setting is saved.

memo

Power Saving does not function in the following situations:
• while taking pictures in Continuous Shooting mode or HS Cont.Shooting mode
• in Playback mode
• while the camera is connected to a PC or printer
• when using the AC adapter
• while recording a movie
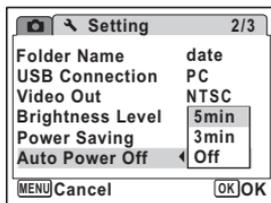• while the menu is being displayed

8

Settings

177

```
                                         🔧 Setting        1/3
                                    Format
MENU                                Sound
                                    Date Adjust    01/01/2007
                                    Alarm          □
                                    World Time     ⌂
Four-way controller                 Language/言語   English
OK button                           MENU Exit
MENU button
```

## Setting Auto Power Off

You can set the camera to turn off automatically when no operation is performed for a fixed time.
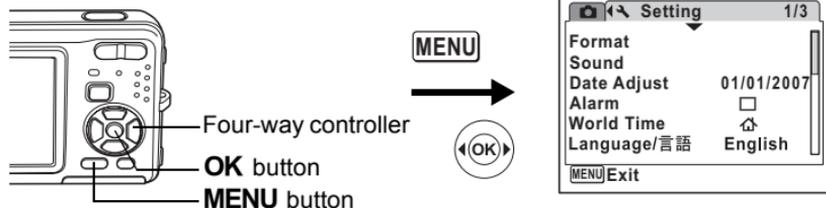
**1** **Use the four-way controller (▲▼) to select [Auto Power Off] on the [🔧 Setting] menu.**

**2** **Press the four-way controller (▶).**
A pull-down menu appears.

**3** **Use the four-way controller (▲▼) to select [5min], [3min] or [Off].**

**4** **Press the OK button.**
The Auto Power Off setting is saved.

```
   🔧 Setting        2/3
Folder Name       date
USB Connection    PC
Video Out         NTSC
Brightness Level  5min
Power Saving      3min
Auto Power Off  ◀ Off
MENU Cancel      OK OK
```

> memo    Auto Power Off does not function in the following situations:
> • while recording sound in Voice Recording mode
> • while taking pictures in Continuous Shooting mode or HS Cont.Shooting mode
> • while recording a movie
> • while playing back sound
> • during a slideshow or movie playback
> • while the camera is connected to a PC or printer

How to display the [✎ Setting] menu

**MENU**

Four-way controller

**OK** button
**MENU** button

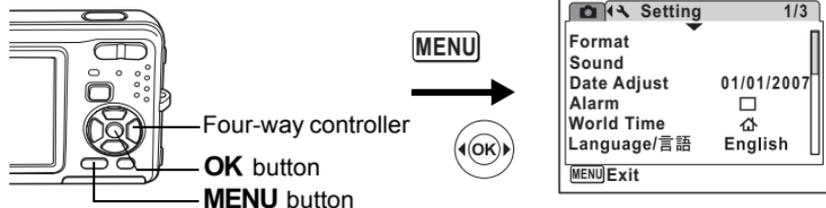| | ✎ Setting | 1/3 |
|---|---|---|
| Format | | |
| Sound | | |
| Date Adjust | | 01/01/2007 |
| Alarm | | ☐ |
| World Time | | ⌂ |
| Language/言語 | | English |

MENU Exit

## Setting the Guide Display

You can choose whether or not to display a guide for the mode you choose in the Capture Mode Palette (p.53) and Playback Mode Palette (p.60).

**1** Use the four-way controller (▲ ▼) to select [Guide Display] on the [✎ Setting] menu.

**2** Use the four-way controller (◀ ▶) to select ☑ (On) or ☐ (Off).

☑ (ON): The mode guide is displayed.
☐ (OFF): The mode guide is not displayed.

| | ✎ Setting | 3/3 |
|---|---|---|
| Guide Display | ◀ ☑ | ▶ |
| Reset | | |

MENU Exit

**3** Press the **MENU** button.
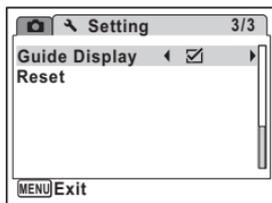
The camera returns to ▲ mode or ▶ mode. Repeat the above steps to change the setting.

## How to display the [✎ Setting] menu



**MENU**

Four-way controller

**OK** button
**MENU** button

```
☐ |✎ Setting      1/3
▼
Format
Sound
Date Adjust      01/01/2007
Alarm            ☐
World Time       ⌂
Language/言語     English

MENU Exit
```

## Resetting to Default Settings (Reset)

You can reset the camera settings to their defaults. Refer to "Default Settings" (p.184) for the reset settings.

**1** Use the four-way controller (▲ ▼) to select [Reset] on the [✎ Setting] menu.

```
☐ ✎ Setting      3/3
Guide Display    ☑
Reset            ▶




MENU Exit
```

**2** Press the four-way controller (▶).
The Reset screen appears.

**3** Use the four-way controller (▲ ▼) to select [Reset].

**4** Press the **OK** button.
The settings return to the defaults.

```
Reset

Reset to initial setting


Reset
Cancel

MENU ↩            OK OK
```
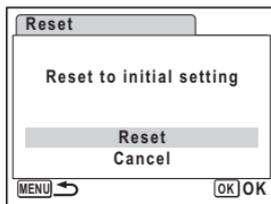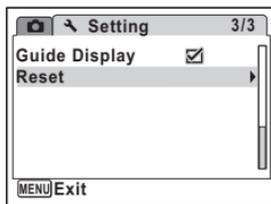
memo
The following settings are not affected by resetting:
Date Adjust, Language/言語, World Time, Video Out.

How to display the Playback Mode Palette
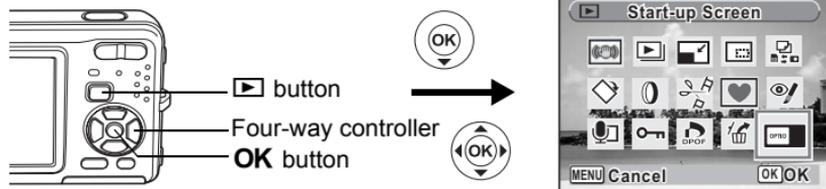
## Changing the Start-up Screen

You can choose an image to be displayed as the start-up screen when the camera is turned on.

**1** Press the ▶ button.
The camera enters ▶ mode.

**2** Press the four-way controller (▼).
The Playback Mode Palette appears.

**3** Use the four-way controller (▲▼◀▶) to select 🖼️ (Start-up Screen).

**4** Press the OK button.
The image selection screen appears.

**5** Use the four-way controller (◀▶) to choose an image for the start-up screen.

**6** Press the OK button.
The Start-up Screen setting is saved.

memo
- Once the start-up screen has been set, it will not be deleted even if the original image is deleted or the SD Memory Card or built-in memory is formatted.
- Select [Off] to hide the start-up screen.

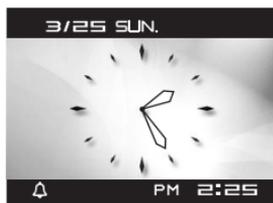# Displaying the Clock Mode
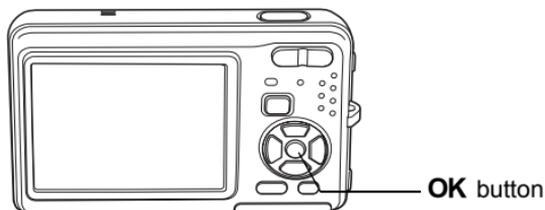


**OK** button

You can use the camera as a clock. With the camera turned off, press and hold down the **OK** button to display the clock on the LCD monitor.

## 1 Press and hold down the OK button.

The camera turns on and the clock appears on the screen.

The camera turns off automatically after approximately 10 seconds.

# List of World Time Cities

The column "City" indicates cities that can be set as either the Initial Setting (p.34) or the World Time (p.170).
The column "Video Output Format" indicates the video output format of the city set as the Initial Setting.

| Region | City | Video Output Format | Region | City | Video Output Format |
|---|---|---|---|---|---|
| North America | Honolulu | NTSC | Africa/ West Asia | Istanbul | PAL |
| | Anchorage | NTSC | | Cairo | PAL |
| | Vancouver | NTSC | | Jerusalem | PAL |
| | San Francisco | NTSC | | Nairobi | PAL |
| | Los Angeles | NTSC | | Jeddah | PAL |
| | Calgary | NTSC | | Tehran | PAL |
| | Denver | NTSC | | Dubai | PAL |
| | Chicago | NTSC | | Karachi | PAL |
| | Miami | NTSC | | Kabul | PAL |
| | Toronto | NTSC | | Male | PAL |
| | New York | NTSC | | Delhi | PAL |
| | Halifax | NTSC | | Colombo | PAL |
| Central and South America | Mexico City | NTSC | | Kathmandu | PAL |
| | Lima | NTSC | | Dacca | PAL |
| | Santiago | NTSC | East Asia | Yangon | NTSC |
| | Caracas | NTSC | | Bangkok | PAL |
| | Buenos Aires | PAL | | Kuala Lumpur | PAL |
| | Sao Paulo | PAL | | Vientiane | PAL |
| | Rio de Janeiro | NTSC | | Singapore | PAL |
| Europe | Lisbon | PAL | | Phnom Penh | PAL |
| | Madrid | PAL | | Ho Chi Minh | PAL |
| | London | PAL | | Jakarta | PAL |
| | Paris | PAL | | Hong Kong | PAL |
| | Amsterdam | PAL | | Beijing | PAL |
| | Milan | PAL | | Shanghai | PAL |
| | Rome | PAL | | Manila | NTSC |
| | Copenhagen | PAL | | Taipei | NTSC |
| | Berlin | PAL | | Seoul | NTSC |
| | Prague | PAL | | Tokyo | NTSC |
| | Stockholm | PAL | | Guam | NTSC |
| | Budapest | PAL | Oceania | Perth | PAL |
| | Warsaw | PAL | | Adelaide | PAL |
| | Athens | PAL | | Sydney | PAL |
| | Helsinki | PAL | | Noumea | PAL |
| | Moscow | PAL | | Wellington | PAL |
| Africa/ West Asia | Dakar | PAL | | Auckland | PAL |
| | Algiers | PAL | | Pago Pago | NTSC |
| | Johannesburg | PAL | | | |

# Default Settings

The table below lists the factory default settings.
The meaning of the indications for menu items with a default setting is explained below.

## Last Memory Setting

Yes : The current setting (last memory) is saved when the camera is turned off.
No : The setting returns to the default setting when the camera is turned off.
\* : The setting depends on the [Memory] setting (p.105).

## Reset Setting

Yes : The setting returns to the default setting with the Reset function (p.180).
No : The setting is saved even after reset.

## ● [🔲 Rec.Mode] Menu Items

| Item | | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| Recorded Pixels | | 8ᴍ (3264×2448) | Yes | Yes | p.89 |
| Quality Level | | ★★ (Better) | Yes | Yes | p.91 |
| White Balance | | **AWB** (Auto) | \* | Yes | p.92 |
| AF Setting | Focusing Area | [ ] (Multiple) | Yes | Yes | p.98 |
| | Focus Limiter | □ (Off) | Yes | Yes | p.99 |
| AE Metering | | ◙ (Multi-segment) | \* | Yes | p.94 |
| Sensitivity | | AUTO800 (64-800) | \* | Yes | p.96 |
| EV Compensation | | ±0.0 | \* | Yes | p.82 |
| Movie | Recorded Pixels | 640 (640×480) | Yes | Yes | p.109 |
| | Quality Level | ★★★ (Best) | Yes | Yes | p.110 |
| | Frame Rate | 30fps | Yes | Yes | p.111 |
| | Color Mode | Full Color | Yes | Yes | p.112 |
| | Movie SR | ☑ (On) | Yes | Yes | p.113 |
| | AF w/ recording | □ (Off) | Yes | Yes | p.114 |
| | Optical Zoom | □ (Off) | Yes | Yes | p.115 |
| Digital wide | | ☑ (On) | Yes | Yes | p.81 |
| Digital Zoom | | ☑ (On) | \* | Yes | p.78 |
| Instant Review | | 1 sec | Yes | Yes | p.100 |

| Item | | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| Memory | Flash Mode | ☑ (On) | Yes | Yes | p.87 |
| | Drive Mode | ☐ (Off) | Yes | Yes | p.74, p.75 |
| | Focus Mode | ☐ (Off) | Yes | Yes | p.85 |
| | Zoom Position | ☐ (Off) | Yes | Yes | p.76 |
| | MF Position | ☐ (Off) | Yes | Yes | p.86 |
| | White Balance | ☐ (Off) | Yes | Yes | p.92 |
| | Sensitivity | ☐ (Off) | Yes | Yes | p.96 |
| | EV Compensation | ☐ (Off) | Yes | Yes | p.82 |
| | AE Metering | ☐ (Off) | Yes | Yes | p.94 |
| | Digital Zoom | ☑ (On) | Yes | Yes | p.78 |
| | DISPLAY | ☐ (Off) | Yes | Yes | p.83, p.120 |
| | File No. | ☑ (On) | Yes | Yes | — |
| Green Button | | Green Mode | Yes | Yes | p.57 |
| Green Button (Setting) | Green Mode | — | — | — | p.57 |
| | Fn Setting | Still image Mode<br>▲:EV Compensation<br>▼:Recorded Pixels<br>◀:Quality Level<br>▶:White Balance<br><br>Movie Mode<br>▲:Movie SR<br>▼:EV Compensation<br>◀:Recorded Pixels<br>▶:White Balance | Yes | Yes | p.58 |
| Sharpness | | ⊥—■—⊥ (Normal) | Yes | Yes | p.101 |
| Saturation | | ⊥—■—⊥ (Normal) | Yes | Yes | p.102 |
| Contrast | | ⊥—■—⊥ (Normal) | Yes | Yes | p.103 |
| Date Imprint | | ☐ (Off) | Yes | Yes | p.104 |

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**Appendix**

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## ● [✎ Setting] Menu Items

| Item | | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| Sound | Operation Volume | 3 | Yes | Yes | p.166 |
| | Playback Volume | 3 | Yes | Yes | |
| | Start-up Sound | 1 | Yes | Yes | |
| | Shutter Sound | 1 | Yes | Yes | |
| | Operation Sound | 1 | Yes | Yes | |
| | Self-timer Sound | 1 | Yes | Yes | |
| Date Adjust | Date Style (date) | According to initial setting | Yes | No | p.36 |
| | Date Style (time) | 24h | Yes | No | |
| | Date | 1/1/2007 | Yes | No | |
| | Time | According to initial setting | Yes | No | |
| Alarm | Alarm | □ (Off) | Yes | Yes | p.168 |
| | Time | 0:00 | Yes | Yes | |
| World Time | World time | Same as ⌂ hometown | Yes | Yes | p.170 |
| | Destination (City) | According to initial setting | Yes | No | |
| | Destination (DST) | □ (Off) | Yes | No | |
| | Hometown (City) | According to initial setting | Yes | No | |
| | Hometown (DST) | □ (Off) | Yes | No | |
| Language/言語 | | According to initial setting | Yes | No | p.34 |
| Folder Name | | Date | Yes | Yes | p.173 |
| USB Connection | | PC | Yes | Yes | p.174 |
| Video Out | | According to initial setting | Yes | No | p.175 |
| Brightness Level | | ─┬─┴─┬ | Yes | Yes | p.176 |
| Power Saving | | 5 sec | Yes | Yes | p.177 |
| Auto Power Off | | 3 min | Yes | Yes | p.178 |
| Guide Display | | ☑ (On) | Yes | Yes | p.179 |
| Reset | | — | — | — | p.180 |

## ● Playback Mode Palette Items

| Item | | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| Digital SR | | — | — | — | p.121 |
| Slideshow | Interval | 3 sec | Yes | Yes | p.123 |
| | Screen Effect | Wipe | Yes | Yes | |
| | Sound Effect | On | Yes | Yes | |
| Resize | Recorded Pixels | Depending on the picture taken | — | — | p.135 |
| | Quality Level | Depending on the picture taken | — | — | |

| Item | | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| Cropping | | Depending on the picture taken | — | — | p.137 |
| Image/Sound Copy | | — | — | — | p.138 |
| Image Rotation | | Normal | — | — | p.42 |
| Digital Filter | | B&W | No | — | p.140 |
| Movie Edit | Save as Still image | — | — | — | p.144 |
| | Divide Movies | — | — | — | |
| | Stitch Movies | — | — | — | |
| Frame Composite | | Default1 | Yes | Yes | p.146 |
| Red-eye Compensation | | — | — | — | p.143 |
| Voice Memo | | — | — | — | p.161 |
| Protect | Single image/sound | — | — | — | p.133 |
| | All Images/Sounds | — | — | — | |
| DPOF | Single image | Copies: 0 | — | — | p.150 |
| | All Images | Date:□ (Off) | — | — | p.152 |
| Image Recovery | | — | — | — | p.132 |
| Start-up Screen | | — | Yes | Yes | p.181 |

## ● Key Operation

| Item | Function | Default Setting | Last Memory Setting | Reset Setting | Page |
|---|---|---|---|---|---|
| ▣ button | Operation Mode | ▣ mode | — | — | — |
| Zoom/♦♦♦/♦ button | Zoom Position | Full wide-angle | * | No | p.76 |
| Four-way controller ▲ | Drive Mode | □ (Standard) | * | Yes | p.74, p.75 |
| Four-way controller ▼ | Shooting Mode | ℗ (Program) | Yes | Yes | p.53 |
| Four-way controller ◄ | Flash Mode | ⚡A (Auto) | * | Yes | p.87 |
| Four-way controller ► | Focus Mode | AF (Standard) | * | Yes | p.85 |
| MENU button | Menu Display | Capture mode: [🗖 Rec.Mode] menu Playback mode: [🔧 Setting] menu | — | — | p.48 |
| OK/DISPLAY button | Information Display | Normal | * | Yes | p.83, p.120 |

9 Appendix

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# Functions Available for Each Shooting Mode

Yes: Can be set and function is available.
No : Cannot be set.
\# : Can be set but function is not available.

| | AUTO PICT | ● | P | 🎴 | 🎬 | 🎤 | 💟 | 🏔️🎆 | 🏔️ | 🌸 |
|---|---|---|---|---|---|---|---|---|---|---|
| 🔆A (Auto) | Yes | Yes | Yes | No | No*3 | No | Yes | Yes | Yes | Yes |
| ⑤ (Flash Off) | Yes | Yes | Yes | Yes | Yes*3 | No | Yes | Yes | Yes | Yes |
| ⚡ (Flash On) | Yes | No | Yes | Yes | No*3 | No | Yes | Yes | Yes | Yes |
| 🔆A (Auto + Red-eye) | Yes | No | Yes | No | No*3 | No | Yes | Yes | Yes | Yes |
| ⚡ (Flash On + Red-eye) | Yes | No | Yes | Yes | No*3 | No | Yes | Yes | Yes | Yes |
| ⚡ (Soft) | Yes | No | Yes | Yes | No*3 | No | Yes | Yes | Yes | Yes |
| □ (Single-frame shooting) | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| ⟳ (Self-timer) | Yes | Yes*1 | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| ⟳ (2 Sec. Self-timer) | Yes | Yes*1 | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| ▣ (Continuous Shooting) | No | No | Yes | No | No | No | No | Yes | No | No |
| ▣ (HS Cont. Shooting) | No | No | Yes | No | No | No | No | Yes | No | No |
| **AF** (Standard) | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| ♣ (Macro) | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| ▲ (Infinity) | Yes | No | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| **PF** (Pan Focus) | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| **MF** (Manual Focus) | Yes | No | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |
| Recorded Pixels | Yes | No | Yes | Yes | #*4 | # | No*8 | Yes | Yes | Yes |
| Quality Level | Yes | No | Yes | Yes | #*4 | # | No*9 | Yes | Yes | Yes |
| White Balance | No*13 | No | Yes | Yes | Yes | #*7 | Yes | No | No*13 | No*13 |
| Focusing Area | No*11 | No | Yes | Yes | Yes*10 | # | Yes*10 | Yes | No*11 | No*11 |
| Focus Limiter | Yes | No | Yes | Yes | Yes | # | Yes | Yes | Yes | Yes |
| AE Metering | No*2 | No*2 | Yes | Yes | No*2 | # | Yes | No*2 | No*2 | No*2 |
| Sensitivity | Yes | No | Yes | Yes | No | # | Yes | Yes | Yes | Yes |
| EV Compensation | No | No | Yes | Yes | Yes*5 | # | Yes | Yes | Yes | Yes |
| Movie | # | No | # | # | Yes | # | No | # | # | # |
| Digital Zoom | Yes | No | Yes | Yes | Yes | # | Yes | Yes | Yes | Yes |
| Instant Review | Yes | No | Yes | Yes | # | # | Yes | Yes | Yes | Yes |
| Memory | Yes | No | Yes | Yes | Yes*6 | Yes*6 | Yes | Yes | Yes | Yes |
| Sharpness | No | No | Yes | Yes | Yes | # | Yes | No | No | No |
| Saturation | No | No | Yes | Yes | Yes | # | Yes | No | No | No |
| Contrast | No | No | Yes | Yes | Yes | # | Yes | No | No | No |
| Date Imprint | Yes | No | Yes | Yes | # | # | Yes | Yes | Yes | Yes |

*1 If you select one of these functions in another shooting mode and then enter the Green mode, only the function selected is available.
*2 Fixed at ◙ (Multi-segment)
*3 Fixed at ⑤ (flash off)
*4 Follows setting for [Movie]
*5 Not available during recording
*6 Some related settings are applied
*7 ▦ (Manual) is not available

Note: Menu settings cannot be changed when in Digital wide mode.

| ⊙ | ✿ 🐟 | ((♟)) | 🍴 | ▮ | |
|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | ⚡ₐ (Auto) |
| Yes | Yes | Yes | Yes | Yes | ⚡ (Flash Off) |
| Yes | Yes | Yes | Yes | Yes | ⚡ (Flash On) |
| Yes | Yes | Yes | Yes | Yes | ⚡ₐ (Auto + Red-eye) |
| Yes | Yes | Yes | Yes | Yes | ⚡ (Flash On + Red-eye) |
| Yes | Yes | Yes | Yes | Yes | ᵉᵒᶠᵗ⚡ (Soft) |
| Yes | Yes | Yes | Yes | Yes | ☐ (Single-frame shooting) |
| Yes | Yes | Yes | Yes | Yes | ☉ (Self-timer) |
| Yes | Yes | Yes | Yes | Yes | ☉ (2 Sec. Self-timer) |
| No | Yes | Yes | Yes | No | 🖿 (Continuous Shooting) |
| No | Yes | Yes | Yes | No | 🖿 (HS Cont. Shooting) |
| Yes | Yes | Yes | Yes | Yes | **AF** (Standard) |
| Yes | Yes | Yes | Yes | Yes | ♣ (Macro) |
| Yes | Yes | Yes | Yes | Yes | ▲ (Infinity) |
| Yes | Yes | Yes | Yes | Yes | **PF** (Pan Focus) |
| Yes | Yes | Yes | Yes | Yes | **MF** (Manual Focus) |
| Yes | Yes | Yes | Yes | No*14 | Recorded Pixels |
| Yes | Yes | Yes | Yes | No*15 | Quality Level |
| No*13 | No*13 | Yes | No*13 | No*13 | White Balance |
| No*16 | Yes | Yes | Yes | Yes | Focusing Area |
| Yes | Yes | Yes | Yes | Yes | Focus Limiter |
| No*2 | No*2 | Yes | No*2 | Yes | AE Metering |
| Yes | Yes | No*12 | Yes | Yes | Sensitivity |
| Yes | Yes | Yes | Yes | Yes | EV Compensation |
| # | # | # | # | No | Movie |
| Yes | Yes | Yes | Yes | — | Digital Zoom |
| Yes | Yes | Yes | Yes | Yes | Instant Review |
| Yes | Yes | Yes | Yes | Yes | Memory |
| No | No | Yes | No | Yes | Sharpness |
| No | No | Yes | No | Yes | Saturation |
| No | No | Yes | No | Yes | Contrast |
| Yes | Yes | Yes | Yes | Yes | Date Imprint |

*8  Fixed at ③ₘ (2048×1536)
*9  Fixed at ★★
*10 ⏣ (Automatic Tracking AF) is not available
*11 Fixed to [ ] (Multiple)
*12 Fixed at AUTO (64 - 3200)
*13 Fixed at **AWB** (Auto White Balance)
*14 Stitched photos are fixed ⑤ₘ (however, the first photo uses ③ₘ)
*15 Stitched photos are fixed at ★ (however, only the first photo requires the menu setting)
*16 Fixed to ⏣ (Automatic Tracking AF)

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**Appendix**

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# Optional Accessories

A number of dedicated accessories are available for this camera.
Products marked with an asterisk (*) are the same as those supplied with
the camera.

● **Power supply**

   **Rechargeable lithium-ion battery D-LI72 (*)**

   **Battery charger kit K-BC72 (*)**
   (Battery charger D-BC72, AC plug cord)

   **AC adapter kit K-AC63**
   (AC adapter D-AC63, AC plug cord)

   The battery charger and AC plug cord are only sold as a set.

● **Cable**

   **USB cable I-USB7 (*)**

   **AV cable I-AVC7 (*)**

● **Strap**

   **O-ST20 (*)**

   **O-ST24**   Genuine leather strap

   **O-ST8**   Silver chain strap

   **O-ST30**   Waterproof strap

● **Camera case**

   **O-CC72**

# Messages

Messages such as the following may appear on the LCD monitor during camera operation.

| Message | Description |
|---------|-------------|
| Battery depleted | The battery is exhausted. Charge the battery using the battery charger. (p.22) |
| Memory card full | The SD Memory Card is full and no more images can be saved. Insert a new SD Memory Card or delete unwanted images. (p.26, p.127) Change the quality level or recorded pixels of recorded images and try again. (p.135) |
| Memory card error | Shooting and playback are impossible due to a problem with the SD Memory Card. You may be able to display or copy the images on the card using a PC. |
| Card not formatted | The SD Memory Card you have inserted is unformatted or has been formatted on a computer or other device and is not compatible with this camera. (p.163) |
| Card locked | The SD Memory Card is write-protected. (p.28) |
| Compression error | This message occurs when the camera fails to compress an image. Change the quality level or recorded pixels of the image and try shooting or saving it again. |
| No image/sound | There are no image/sound files on the SD Memory Card. |
| Movie recording stopped | This message appears when the internal temperature of the camera has exceeded normal operating limits while recording a movie. |
| Deleting | This message appears when deleting an image or sound file. |
| Camera cannot play this image and sound | You are trying to play back an image or sound in a format not supported by this camera. You may be able to play it back on another brand of camera or on your computer. |
| Image folder could not be created | The largest file number (9999) has been assigned to an image in the largest folder number (999) and no more images can be saved. Insert a new SD Memory Card or format the card. (p.163) |
| Protected | The image or sound file you are trying to delete is protected. |
| Open the lens cover | Displayed if you press the shutter release button halfway/ fully or the playback button to switch to the capture mode when the camera is turned on but the lens cover is closed. |

| Data being recorded | This message appears when you try to switch to ► mode while an image is still being recorded, or when the protect setting or DPOF setting is being changed. It disappears after the image is recorded or the setting is changed. |
|---|---|
| Data being processed | This message appears when the camera takes more than five seconds to display an image due to image processing, or when the SD Memory Card or built-in memory is being formatted. |
| Built-in memory full | Displayed if the built-in memory is full when saving a file. |
| No image to be processed | Displayed when there are no image or sound files. |
| This image/sound cannot be processed | Displayed for files that cannot be processed. |
| No card in the camera | Displayed when no SD card is inserted. |
| The built-in memory is not enough to copy images/sounds | Displayed when there is insufficient built-in memory to perform copying. |
| Cannot process correctly | Displayed when Red-eye Compensation processing fails. |
| Display image/sound from built-in memory | Displayed when the camera enters built-in memory display. |
| Green mode must be canceled to use this function. | Displayed when you try to use a function not supported by the Green Mode. |

Messages such as the following may appear on the LCD monitor when using the PictBridge function.

| Message | Description |
|---|---|
| Low paper level in the printer | The paper level of the printer is low. |
| No paper in the printer | There is no paper in the printer. |
| Paper stuck in the printer | The paper is stuck in the printer. |
| Low ink level in the printer | The ink level of the printer is low. |
| No ink in the printer | There is no ink in the printer. |
| Printer error | An error message has been sent from the printer. |
| Data error | A data error message has been sent from the printer. |
| Connection error Check printer | Displayed when a PictBridge connection fails. |
| Printing now | Displayed when printing is being executed. |
| Printing is completed. Continue printing? | Displayed when printing completes. |

| Print Canceled | Displayed when printing is canceled. |
|---|---|
| No image to be processed | Displayed when there are no images to print. |
| Wrong DPOF setting | Displayed when DPOF printing cannot be performed. |

# Troubleshooting

| Problem | Cause | Remedy |
|---------|-------|--------|
| The camera will not turn on | The battery is not installed | Check if a battery is installed. If not, install a battery. |
| | The battery is installed incorrectly | Check orientation of the battery. Reinsert battery according to ⊕⊖ symbols. (p.23) |
| | The battery power is low | Charge the battery. |
| No image appears on LCD monitor | The camera is connected to a PC | The LCD monitor is off when the camera is connected to a computer. |
| | The camera is connected to a TV | The LCD monitor is off when the camera is connected to a TV. |
| | The LCD monitor is set to OFF | Press the **OK**/**DISPLAY** button to turn the LCD monitor on. (p.83) |
| | The image is displayed but is hard to see | The image on the LCD monitor may be hard to see when taking pictures outside in sunlight. Increase brightness of the LCD monitor. (p.176) |
| The shutter will not release | The flash is charging | Pictures cannot be taken while the flash is charging. Wait until charging is finished. |
| | No available space on SD Memory Card or in the built-in memory | Insert an SD Memory Card with available space or delete unwanted images. (p.26, 127) |
| | Recording | Wait until recording is finished. |
| The picture is dark | The subject is too far away in a dark environment, such as a night scene | Picture becomes dark if the subject is too far away. Take pictures within range of flash. |

| Problem | Cause | Remedy |
|---------|-------|--------|
| The subject is not in focus | The subject is difficult to focus on with autofocus | Lock the focus on another object at the same distance (press the shutter release button halfway), then aim at the target and press the shutter release button fully (p.40), or use the Manual Focus mode. (p.86) |
| | The subject is not in the focusing area | Position the subject in the focus frame in the middle of the LCD monitor. If the subject is outside the focusing area, aim the camera at the subject and lock the focus (press the shutter release button halfway), then compose picture and press the shutter release button fully. |
| | The subject is too close | Set the focus mode to ♥. (p.85) |
| | The focus mode is set to ♥ | Normal pictures will be out of focus if taken with focus mode set to ♥. |
| The flash does not discharge | The flash mode is set to ⑤ (flash off) | Set to Auto or ✦ (Flash On). (p.87) |
| | The drive mode is set to ▣ or ▩ The focus mode is set to ▲ The shooting mode is set to 🎥 | The flash will not discharge in these modes. |
| The USB connection with computer does not work properly | The USB connection mode is set to [PictBridge] | Change the USB connection mode to [PC]. (p.174) |
| The USB connection with printer does not work properly | The USB connection mode is set to [PC] | Change the USB connection mode to [PictBridge]. (p.153) |

Static electricity may occasionally prevent the camera from operating correctly. If this should occur, try removing and then reloading the battery. If the camera turns on and operates properly, this indicates that there is no malfunction. You can use the camera as usual.

# Main Specifications

| Type | Fully automatic compact digital still camera with built-in zoom lens |
|---|---|
| Effective Pixels | 8.0 megapixels |
| Sensor | 8.29 megapixels (total pixels)<br>1/2.5 inch interline transfer CCD with a primary color filter |
| Recorded Pixels | Still Picture   8M (3264×2448 pixels), 5M (2592×1944 pixels)<br>4M (2304×1728 pixels), 3M (2048×1536 pixels)<br>2M (1600×1200 pixels), 1024 (1024×768 pixels)<br>640 (640×480 pixels) |
| | Movie   640 (640×480 pixels), 320 (320×240 pixels) |
| ISO Sensitivity | Auto (64 - 800), manual (ISO 64/100/200/400/800/1600/3200)<br>* The ISO Sensitivity range can be changed from the menu.<br>* ISO is fixed at AUTO 64-3200 in the Digital SR (Blur Reduction). |
| File Format | Still Picture   JPEG (Exif 2.2), DCF, DPOF, PictBridge,<br>PRINT Image Matching III |
| | Movie   AVI (Motion JPEG), approx. 30fps/15fps, PCM system, monaural sound, full color/sepia/black and white, Movie SR (Movie anti-shake) |
| | Sound   Voice memo, voice recording: WAVE (PCM) system, monaural |
| Quality Level | Still Picture   ★★★ "Best", ★★ "Better", ★ "Good" |
| | Movie   ★★★ "Best", ★★ "Better", ★ "Good" |
| Storage Medium | Built-in memory (approx. 52.1 MB), SD Memory Card, SDHC Memory Card |

Approximate Image Storage Capacity and Recording Time
Still Pictures

| | ★★★ (Best) | | ★★ (Better) | | ★ (Good) | |
|---|---|---|---|---|---|---|
| | Built-in Memory | 256 MB | Built-in Memory | 256 MB | Built-in Memory | 256 MB |
| 8M 3264×2448 | 13 pictures | 62 pictures | 26 pictures | 121 pictures | 40 pictures | 186 pictures |
| 5M 2592×1944 | 21 pictures | 97 pictures | 40 pictures | 186 pictures | 58 pictures | 267 pictures |
| 4M 2304×1728 | 26 pictures | 121 pictures | 52 pictures | 242 pictures | 75 pictures | 346 pictures |
| 3M 2048×1536 | 33 pictures | 151 pictures | 65 pictures | 299 pictures | 95 pictures | 435 pictures |
| 2M 1600×1200 | 52 pictures | 242 pictures | 87 pictures | 401 pictures | 128 pictures | 586 pictures |
| 1024 1024× 768 | 104 pictures | 476 pictures | 175 pictures | 802 pictures | 222 pictures | 1016 pictures |
| 640 640× 480 | 208 pictures | 953 pictures | 303 pictures | 1386 pictures | 416 pictures | 1906 pictures |

• The image storage capacity is for reference only. The actual image storage capacity may vary depending on the SD memory card and the subject.

Movie/Sound

|  |  | 30fps | | 15fps | | Sound | |
|---|---|---|---|---|---|---|---|
|  |  | Built-in Memory | 256 MB | Built-in Memory | 256 MB | Built-in Memory | 256 MB |
| 640<br>640×480 | ★★★ | 49 sec. | 3 min. 47 sec. | 1 min. 38 sec. | 7 min. 28 sec. | 41 min. 17 sec. | 3 hr. 8 min. 53 sec. |
|  | ★★ | 1 min. 6 sec. | 5 min. 5 sec. | 2 min. 13 sec. | 10 min. 10 sec. |  |  |
|  | ★ | 1 min. 41 sec. | 7 min. 42 sec. | 3 min. 16 sec. | 14 min. 57 sec. |  |  |
| 320<br>320×240 | ★★★ | 1 min. 19 sec. | 6 min. 3 sec. | 2 min. 31 sec. | 11 min. 33 sec. |  |  |
|  | ★★ | 1 min. 47 sec. | 8 min. 12 sec. | 3 min. 28 sec. | 15 min. 53 sec. |  |  |
|  | ★ | 2 min. 31 sec. | 11 min. 33 sec. | 5 min. 3 sec. | 23 min. 6 sec. |  |  |

The recording time is for reference only. The actual recording time may vary depending on the SD memory card and the subject.

| White Balance | | Auto, Daylight, Shade, Tungsten Light, Fluorescent Light, Manual |
|---|---|---|
| Lens | Focal Length | 6.3 mm - 44.1 mm (equivalent to 38 mm - 266 mm in 35 mm format) |
|  | Aperture | f/3.5 - f/5.4 |
|  | Lens Composition | 12 elements in 9 groups (Uses two double-side aspherical elements and two single-sided aspherical elements) |
|  | Zoom Type | Electrically driven |
|  | Picture Range | Approx. 44.2 mm × 33.5 mm (screen is filled) (Macro Mode: used when the full telephoto range is 30 cm) |
| Intelligent Zoom | | 5M (2592 × 1944) is approx. 8.8 X, 4M (2304 × 1728) is approx. 9.9 X, 3M (2048 × 1536) is approx. 11.2 X, 2M (1600 × 1200) is approx. 14.3 X, 1024 (1024 × 768) is approx. 22.3 X, 640 (640 × 480) is approx. 35.7 X (a zoom ratio equivalent to optical 7 X zoom) |
| Digital Zoom | Capture Mode | Max. 5.1× (combines with 7× optical zoom to give zoom magnification equivalent to 35.7×) |
| LCD Monitor | | 2.5-inch TFT color LCD monitor (with backlight) with brightness adjustment, approx. 230,000 pixels 2 steps (Economy mode and Normal mode) |

| Playback Functions | Single-frame, 9-frame index, enlargement (max. 8×, scrollable), folder display, calendar display, Image Rotation, sound playback, slideshow, movie playback and editing (saving as still image, dividing, stitching), histogram display, bright/dark portion display, image/sound copying, digital filter, cropping, resizing, frame composite, red-eye compensation, image recovery, Protect, DPOF, Start-up Image Setting, Voice Memo, Deleting Selected images | | |
|---|---|---|---|
| Focus Modes | Autofocus, Macro, Infinity, Pan Focus, Manual Focus | | |
| Focus | Type | TTL contrast detection system by sensor 9-point autofocus (multiple/spot/automatic tracking AF changeable) | |
| | Focus Range | Normal | : Approx. 0.4 m - ∞ (Wide-angle) Approx. 0.5 m - ∞ (Telephoto) |
| | | Macro | : Approx. 0.08 m - 0.5 m (Wide-angle) Approx. 0.3 m - 0.6 m (Telephoto) |
| | | * It is possible to switch to Pan Focus, Landscape and Manual Focus. * Face Recognition AF is only available when Portrait, Natural Skin Tone, or Kids is selected. | |
| | Focus Lock | By half-pressing shutter release button | |
| Exposure Mechanism | AE metering | TTL metering by sensor (multi-segment, center-weighted, spot) | |
| | EV Compensation | ±2 EV (can be set in 1/3 EV steps) | |
| Shooting Modes | Auto Picture, Green, Program, Night Scene, Movie, Voice Recording, Landscape, Flower, Portrait, Digital SR (Blur Reduction), Surf & Snow, Sport, Pet, Frame Composite, Kids, Food, Natural Skin Tone * Face Recognition AE is only available when Portrait or Natural Skin Tone or Kids is selected. | | |
| Digital Filters | B&W, Sepia, Red, Pink, Purple, Blue, Green, Yellow, Soft, Color extraction (Red, Green, Blue),Fish Eye, Brightness | | |
| Movie | Continuous Recording Time | Approx. 1 second - until built-in memory or SD Memory Card is full (however, maximum size is limited to 2 GB) | |
| Shutter | Type | Electronic/mechanical shutter | |
| | Speed | Approx. 1/1440 sec. - 4 sec. | |
| Flash | Type | Auto flash with red-eye reduction function | |
| | Flash Modes | Auto (at low illumination), Flash Off, Flash On, Auto + Red-eye, Flash On + Red-eye, Soft Flash, (Slow synchronization is possible only in Night Scene mode) | |
| | Effective Range | Wide-angle : 0.16m - 5.4m (0.52ft - 17.7ft) (ISO Sensitivity: in Auto condition (64-800)) Telephoto : 0.3m - 4.0m (0.98ft - 13.1ft) (ISO Sensitivity: in Auto condition (64-800)) | |
| Drive Modes | Single-frame, Self-timer (approx. 10 sec., approx. 2 sec.), Continuous (Normal, High Speed) | | |
| Self-timer | Electronic control type, control time: Approx. 10 sec., 2 sec. | | |

| Time Function | World Time | 75 cities (28 time zones) |
|---|---|---|
| | Clock Mode | Clock display by holding down **OK**/**DISPLAY** button while camera is turned off (approx. 10 sec.) |
| | Alarm | Alarm with simultaneous display of the Clock mode at specified time |
| Power Supply | | Rechargeable lithium-ion battery D-LI72, AC adapter kit (optional) |
| Battery Life | Number of Recordable Images approx. 180 pictures | * Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions. |
| | Playback Time approx. 150 min. | * According to the result of in-house testing. Actual time may differ depending on usage conditions. |
| | Movie Recording Time approx. 65 min. | |
| | Sound Recording Time approx. 190 min. | |
| Max. Charging Time | | Approx. 90 min. |
| In/Out Port | | USB 2.0 (high-speed compatible) /AV terminal, DC input terminal |
| Video Output Format | | NTSC/PAL (monaural) |
| PictBridge | Printer | PictBridge-compatible printer |
| | Print Modes | Print One, Print All, DPOF AUTOPRINT |
| | Paper Size | Card, L, 2L, Postcard, 100 mm×150 mm, 4"×6", 8"×10", Letter, 11"×17", A4, A3, printer setting |
| | Paper Type | ★★★, ★★, ★, printer setting |
| | Quality | ★★★, ★★, ★, printer setting |
| | Border Status | With/without, printer setting |
| Size | | 94 (W) × 58 (H) × 25.5 (D) mm (excluding operating or protruding parts, 22 mm at the slimmest point) |
| Weight | | 125 g (excluding battery and SD Memory Card) |
| Weight When Shooting | | 145 g (including battery and SD Memory Card) |
| Accessories | | Rechargeable lithium-ion battery, battery charger, AC plug cord, USB cable, AV cable, software (CD-ROM), strap, operating manual, PC connection manual, quick guide |

# WARRANTY POLICY

All PENTAX cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized PENTAX service facilities.

Procedure During 12-month Warranty Period
Any PENTAX which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your PENTAX was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your PENTAX returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

- **This warranty policy does not affect the customer's statutory rights.**
- **The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.**

$C \in$   The CE Mark is a Directive conformity mark of the European Union.

**For customers in USA**
**STATEMENT OF FCC COMPLIANCE**
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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
  Increase the separation between the equipment and receiver.
  Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

* Consult the dealer or an experienced radio/TV technician for help.

**For customers in Canada**
This Class B digital apparatus complies with Canadian ICES-003.

**Pour les utilisateurs au Canada**
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**FOR CALIFORNIA, U.S.A. ONLY**
Perchlorate Material-special handling may apply. The lithium battery used in this camera contains perchlorate material,which may require special handling. See  www.dtsc.ca.gov/hazardouswaste/perchlorate

## Declaration of Conformity
### According to 47CFR, Parts 2 and 15 for
## Class B Personal Computers and Peripherals

We: PENTAX Imaging Company
A Division of PENTAX of America, Inc.

Located at: 600 12<sup>th</sup> Street, Suite 300
Golden, Colorado 80401 U.S.A.
Phone: 303-799-8000 FAX: 303-790-1131

Declare under sole responsibility that the product identified herein complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on the statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §15.101 to §15.109.

Product Name: PENTAX Digital Still Camera

Model Number: Optio Z10

Contact person: Customer Service Manager

Date and Place: September, 2007, Colorado

### Information on disposal for users

1. In the European Union

If your product is marked with this symbol, it means that used electrical/electronic products should not be mixed with general household waste. There exists a separate collection system for these products.

Used electric/electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.
*Please contact your local authority for further details.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.

# Index

**Memo**

**Memo**

PENTAX

for your
precious moments

**http://www.pentax.co.jp/english**

• Specifications and external dimensions are subject to change without notice.