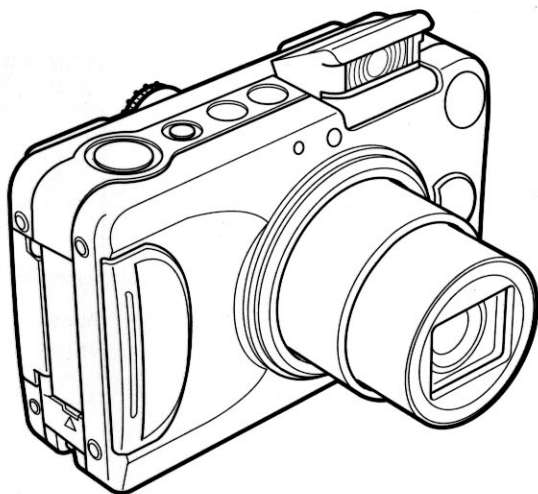


Finecam S5R



Use an SD memory card or a MultiMediaCard.
These cards are referred to as "memory cards" in this instruction manual.

* MultiMediaCard™ is a trademark of Infineon Technologies AG (Germany), and a technology licensed to MMCA (MultiMediaCard Association).

Utiliser une carte mémoire SD ou une MultiMediaCard.
Ces cartes seront appelées "carte mémoire" dans ce manuel d'instructions.

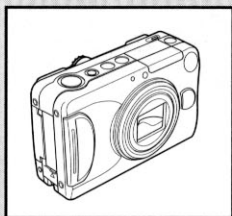
* MultiMediaCard est une marque de fabrique de Infineon Technologies AG (Allemagne) et une technologie dont la licence appartient à MMCA (MultiMediaCard Association).

Thank you for purchasing this Kyocera product.

The Finecam S5R is a digital camera equipped with a 3x optical zoom lens for high performance and high quality digital still photography.

Please read this instruction manual carefully before using the camera to ensure proper use and a long service life.

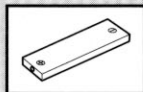
Checking the Contents *First, check the contents of the product package.*



**Digital camera
Finecam S5R**

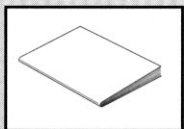


Memory card
(SD memory card)
(P.17)



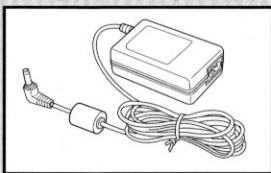
Battery pack
(rechargeable when inserted
into the camera) (P.16)

Instruction manual

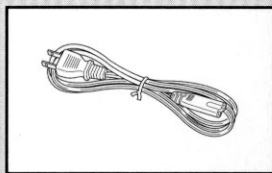


AC adapter

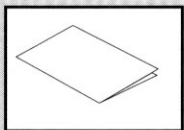
(connect to the camera to re-charge the battery pack) (P.16)



AC adapter cable
(P.16)

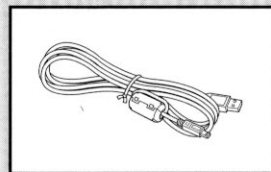


Quick Start Guide



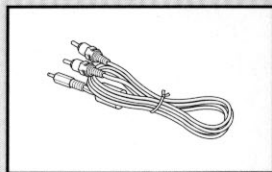
USB cable

(for connecting the camera to a PC) (P.90)

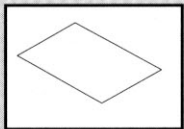


Video cable

(for connecting the camera to a TV) (P.86)



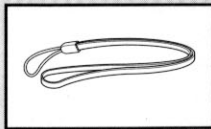
Warranty



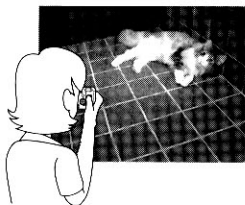
CD-ROM (CD-42)
(driver software)



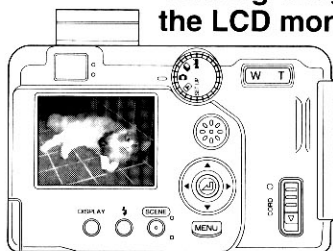
Strap
(P.5)



Shooting images

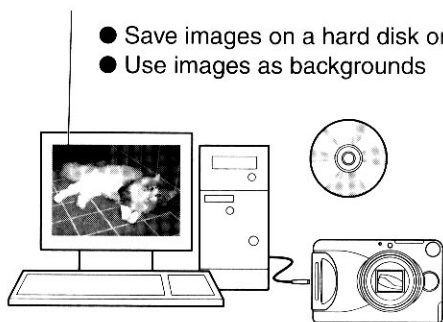


Viewing images on the LCD monitor



● Attach images to E-mail and send it

- Save images on a hard disk or CDR
- Use images as backgrounds



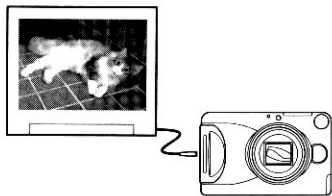
Connecting to a PC

You can connect your camera to a PC with the included USB cable.

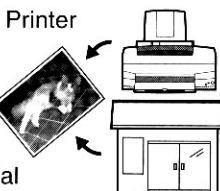
Some operating systems may require you to install a USB driver. If this is the case, connect the camera to the PC after installing the USB driver. Note that the driver cannot be correctly installed if the installation process is not performed correctly. For details, see page 87.

● Process images using retouch software

Viewing images on a TV screen



Printing digital images



* Like conventional film, digital prints can be processed by a commercial printing service. For details on services provided, contact your dealer.

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Playing and Erasing

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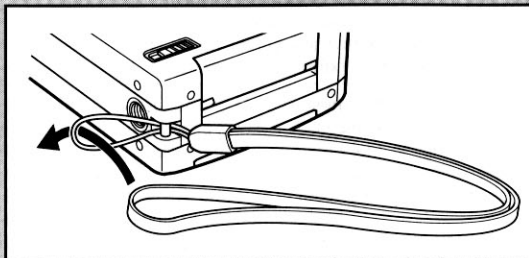
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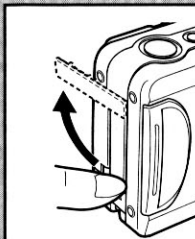
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Attaching the Strap



Opening the Connector Cover



Remove the cover with your fingernail in the direction shown in the illustration.

FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

KYOCERA DIGITAL STILL CAMERA



Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

FCC Statement

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.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ¶ Change the direction of the radio or TV antenna. Move the equipment or the radio or TV. For example, if the equipment is to the right of the TV, move it to the left of the TV. Or, move the equipment farther away from the radio or TV.
- ¶ Plug the equipment into a different outlet. Do not plug your radio or TV into the same circuit as your equipment.
- ¶ Ensure that all expansion slots (on the back or side of the equipment) are covered. Also, ensure that all metal retaining brackets are tightly attached to the equipment.
- ¶ If these suggestions do not help, consult your equipment dealer or experienced radio/TV technician for help.

CAUTION

If you modify the camera in any way, without getting approval from KYOCERA CORPORATION, your camera may violate FCC regulations. Violation of FCC regulations may cause the FCC to void your right to use the modified camera.

Shielded cables must be used for this equipment to comply with the relevant FCC regulation.




For customers in Canada CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



Caution and Warning Symbols

This instruction manual uses the following caution and warning symbols to indicate points of special importance. Be sure to read the below information carefully, and use the camera correctly.

 DANGER	This symbol indicates procedures which have a high likelihood of resulting in death or serious personal injury if not followed properly.
 WARNING	This symbol indicates handling procedures which may result in death or personal injury if not followed properly.
 CAUTION	This symbol indicates procedures which may result in injury to the user, or physical damage to the product if not followed properly.

Handling Precautions

<Precautions for Operating the Camera>

 WARNING	<ul style="list-style-type: none"> ● If camera or batteries become hot, emit smoke or a burning smell, or display other abnormal symptoms, remove them from the camera immediately to prevent fire. When handling the batteries, take precautions to avoid being burned. ● Never attempt to disassemble or modify the camera, since you may receive a severe electric shock. ● Do not operate the electronic flash at close proximity to a person's eyes (especially those of an infant), since eye damage may result. ● Do not look through the camera directly at the sun or other strong light source, since your eyesight may be damaged. ● Do not attempt to take pictures while driving or walking, particularly when looking through the viewfinder or at the LCD monitor, since you may cause an accident. ● When taking pictures, remain aware of your surroundings and what is happening around you.
 CAUTION	<ul style="list-style-type: none"> ● Clean the camera well after using it at the beach or other locations subject to large concentrations of sand or dust. Salt air may promote corrosion of metal components and damage or short circuits in electronic parts, causing the camera to emit smoke or catch fire. Sand inside the camera may result in internal damage and operating malfunctions. ● If the camera is brought quickly from a cold place to a warm room, condensation may form on the lens and internal parts. Such condensation may result in damage or short circuits in electronic parts, causing the camera to emit smoke or catch fire. Whenever possible, avoid subjecting the camera to sudden changes in temperature, and if condensation occurs, turn off the camera power quickly and leave it off until all condensation is gone. ● This camera is a precision electronic instrument, and should be protected from impacts and falls that might cause damage to internal parts or the shorting of circuitry. ● This camera is an electronic device that uses high performance IC. The camera may become hot due to heat dissipation from the IC during use. This phenomenon is not a failure, but use caution not to keep heated parts on your skin for several hours. Failure to do so may cause a low-temperature burn. ● When taking the camera overseas or using it to record important events, check its operating condition and take test pictures beforehand to confirm proper operation.

- This camera is not designed to be waterproof, and cannot be used in the rain or under water. If the camera should inadvertently be exposed to water, it should be taken quickly to a Yashica Service Center for inspection.
- Fingerprints or smudges on the camera's lens or light sensors may adversely affect the precision of the camera. If soiling occurs, use a piece of clean chamois or commercially available lens tissue to gently wipe away the smudge. Do not apply excessive pressure or touch the lens with any rough material. An air blower or lens brush may be used to remove loose dust or dirt from the lens.
- Clean the camera body by wiping with soft cloth. Never use benzene, thinner, or other volatile solvents or cleansers, since such substances will damage the body materials.

- Do not remove the SD memory card or Multi-Media Card (MMC) while the card access LED is flashing.
- Interference may occur in recorded or played back images when the camera is used in areas subject to strong electromagnetic interference (e.g., near a television set or stereo speakers).
- Do not direct the camera lens directly toward the sun when shooting, since the CCD element may be damaged.
- Dropping the camera may cause damage to internal parts even though the camera may appear superficially undamaged. Always take the camera to a Yashica Service Center for inspection if it is dropped.
- Do not attempt to touch the insides of the memory card slot, since damage or malfunction may result.

Microcomputer Protection Circuit:

This camera incorporates a safety circuit to protect its microcomputer against strong external static electricity. Though rarely, it may fail to function because this safety circuit has come into action. In this case, turn off the camera's power, remove the batteries, reload them and use the camera again.

For best performance, we recommend the use of genuine Yashica accessories. Yashica is not responsible for any accidents or damage caused by the use of accessories made by other manufacturers or fashioned by the user.

Photographs taken of professional performances, exhibitions, displays, or copyrighted materials may be used only for your own personal enjoyment, and only with the consent of the copyright holders. Other use may constitute violation of applicable copyright laws. Be aware that some performances, exhibitions, or displays may impose restrictions on photographic or other recording even when the purpose of such recordings are personal enjoyment.

Test Photos and Warranties

Make it a practice to take test shots before beginning any important photography session, in order to confirm that images are being recorded properly. Yashica will not be held responsible for failure of photographs to be recorded or transmitted to a computer as the result of any defects in recording media (SD memory card or Multi-Media Card (MMC)).

<Storing the Camera>



- Store the camera in a well-ventilated location, avoiding damp or dusty areas, drawers or boxes containing mothballs, or in laboratories or other locations where chemicals are handled. Exposure to such chemical fumes can result in damage to the camera's circuitry, resulting in short circuits and causing the camera to emit smoke or catch fire.

- Do not place the camera in places that may be exposed to high temperatures for extended periods of time (the beach in summer, a closed car under bright sun, etc.). Such high temperatures may cause adverse affects or damage to the camera, batteries, or memory cards.
- Remove the batteries before storing the camera for extended periods of time, to prevent battery leakage and resulting damage.

<LCD Monitor>



- Strongly rubbing or pressing against the LCD monitor screen can cause damage or other malfunctions. If dirt or dust adheres to the surface, use a blower brush to remove the dirt. In the event of severe soiling, wipe gently with a soft cloth or chamois.
- If the LCD monitor should become broken, take precautions to prevent personal injury from glass fragments.
- If the LCD monitor breaks and its liquid contacts your skin, quickly wipe away any remaining liquid and wash the skin with soap and water. If the liquid should enter the eyes, wash with clean running water for at least 15 minutes, then seek medical attention immediately.

- Due to the innate characteristics of LCD panels, a few pixels may appear permanently lighted or may not light at all. This is not a malfunction, and does not affect the recorded image in any way.
- The LCD monitor may appear difficult to see in some outdoor lighting situations.

<Precautions for Handling Rechargeable Lithium Ion Battery Pack>



- Do not recharge or place batteries near sources of high heat (near flames, heaters, or in direct sunlight, etc.), or in places exposed to flammable gasses, since the batteries may generate heat, emit smoke, or rupture.
- Do not allow the positive (+) and negative (-) terminals of batteries to be short-circuited by metallic wires or object, since batteries may generate heat or emit smoke or flames.
- Do not store batteries together with keys, necklaces, coins or other metallic objects, since the objects may contact the battery terminals, causing short-circuits.
- Do not try to heat batteries, or dispose of them in fire, since they may generate heat, emit smoke or flame, or rupture.
- Do not attempt to disassemble or modify batteries, since they may generate heat, emit smoke or flame, or the internal battery liquid may enter your eyes, causing blindness or other personal injury. If battery liquid should enter the eyes, wash the eyes with clear running water and seek medical attention immediately.
- This battery pack has been designed for exclusive use with the accompanying camera. Use the camera or the dedicated recharger for recharging the battery pack. Do not attempt to use the battery pack for any application other than that for which it was designed, and do not attempt to recharge it using any commercial recharger, since the battery may generate heat or smoke, catch fire or explode.



- Never place batteries in a microwave oven or other container exposed to high-voltage, since battery liquid may leak, or the battery may generate heat, emit smoke or flame, or rupture.
- Do not use leaking batteries. Battery liquid may contact your skin, causing personal injury. In the event battery liquid does contact skin, wash immediately with clean water.
- Do not use broken or ruptured batteries, since they may generate heat, emit smoke or flame, or cause electrical shock.



- Do not place batteries in water of any kind, or allow them to become wet, since the batteries may generate heat, emit smoke or flame, or cause electrical shock.
- Do not use or attempt to recharge wet batteries, since they may generate heat, emit smoke or flame, or cause electrical shock.
- Do not store batteries in locations accessible to small children, since injury could result.
- Do not throw batteries or subject them to strong impacts, since they may be damaged and leak battery fluid.
- Whenever possible, use batteries at room temperature (20°C ± 5°C). The battery capacity and usable time between recharging may be reduced in situations of extreme heat or cold, such as during mid-summer or deep winter weather, or when batteries are left in a hot location (e.g., inside a closed car exposed to sun). Such conditions may also shorten the usable service life of the battery.
- When not using batteries, store them in a cool, dry location.



Lithium-Ion Battery Pack.
Please recycle after use.

<AC Adapter Handling Precautions>



- Be sure that charger and AC adapter plugs are connected securely before use. Loose plugs and poor contacts can cause generation of heat, fire, and electrical shock.
- Do not attempt to modify the AC adapter's cords, or subject them to unreasonable force. Damage to the cords can cause fires and electrical shock. If cords become so damaged that their wire cores are exposed, discontinue use and consult your dealer or Yashica Service Center.
- Do not attempt to remove covers, disassemble, repair or modify your charger or AC adapter, since dangerous electrical shock could result.
- Charger or AC adapter plugs that have become laden with dirt or household dust should not be used or approached with metal objects, since electricity might be transmitted through the metal, causing fire or personal electrical shock. In the event of heavy soiling of a plug, remove it from its outlet and clean away the dirt before reusing.
- In the event that a charger or AC adapter plug emits smoke or unusual smell or sound, or if it is damaged by impact or falling, cease use immediately. Continuing to use a damaged plug could result in fire danger. In the event of damage to a plug, consult your dealer or Yashica Service Center.
- Do not connect the AC adapter to any sources of power other than a household AC outlet (AC 100V to 240V; 50/60Hz). Using the adapter with other voltages or ratings may cause the hazard of fire or electrical shock.



- Use only the designated AC adapter and charger. Using other adapters may result in accidents and fire danger.
- Never attempt to splice the AC adapter cord, or subject it to severe twisting, bending, or stretching.
- Do not handle the charger or AC adapter with wet hands, since personal electrical shock could result.
- Always grasp the plug body (not cord) when removing the AC adapter plugs from camera and power outlet. Pulling on the cords could cause breakage or other damage to the wires, resulting in danger of fire or electrical shock.
- If you observe any damage to the charger or AC adapter, including broken wires and faulty plug contacts, discontinue use and consult your dealer or Yashica Service Center.

- Prolonged use may cause the AC adapter to feel warm; this is a normal phenomenon and not a malfunction.
- When not using the AC adapter for an extended period of time, first remove the plug from the camera body, then disconnect the adapter from its AC outlet.
- If you wish to use the AC adapter while batteries are loaded in the camera, first set the camera's power switch to OFF, then connect the AC adapter before turning on the camera again.
- The AC adapter has been designed for exclusive use with this camera. To prevent the danger of fire and electrical shock, do not use the adapter with products other than the specific digital camera for which it was designed.

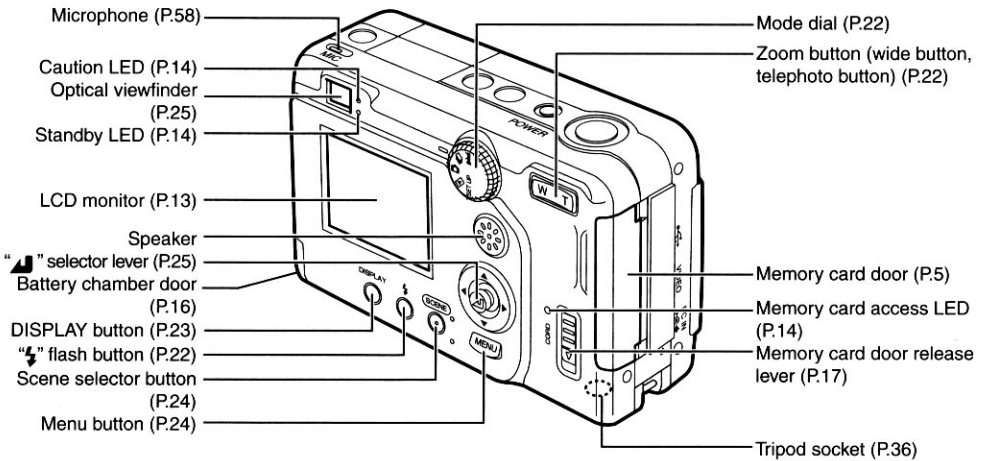
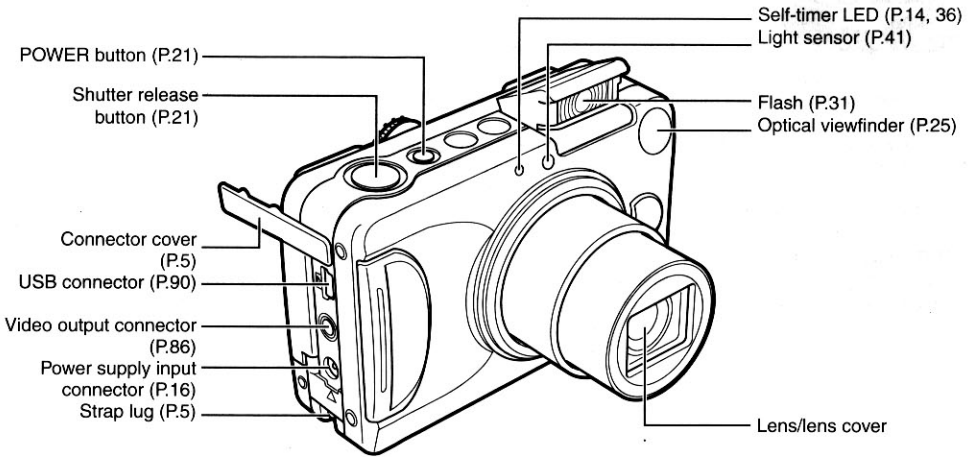


- * The SD logo is a registered trademark.
- * Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- * Macintosh, Mac OS, QuickTime, and the QuickTime logo are registered trademarks of Apple Computer, Inc.
- * All other corporate and brand names are the registered trademarks or trademarks of their respective owners.
- * PRINT Image Matching is trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation.

PRINT Image Matching

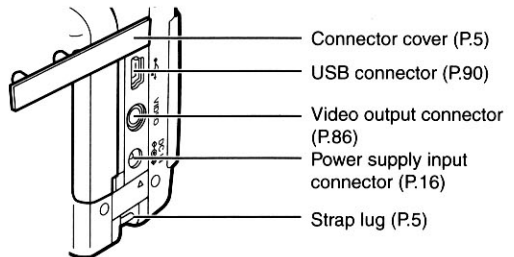
This product supports PRINT Image Matching II. When used in combination, PRINT Image Matching II enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions.

Names of Parts



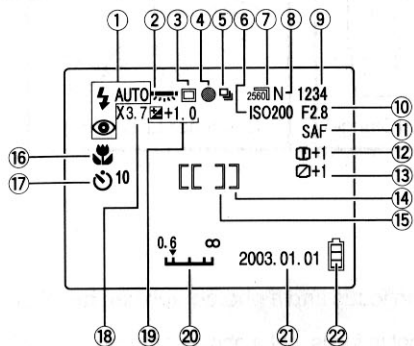
Memory card insertion slot (P.17)

Memory card door (P.17)



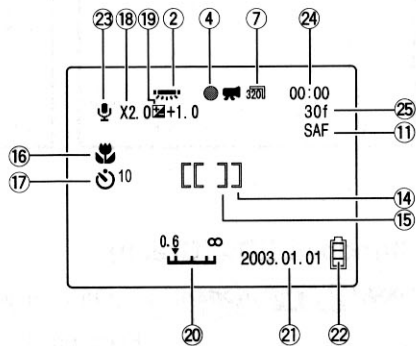
LCD Monitor Indications (Photography Mode)

<“📷” Continuous shooting mode & “📷” Single frame shooting mode>



- ① Flash mode (See P.31)
- ② White balance/color mode (See P.39, P.40)
- ③ Light sensor mode (See P.41)
- ④ Focus lock mark (comes on in focusing)
- ⑤ Continuous shooting (See P.28)
- ⑥ ISO sensitivity (See P.41)
- ⑦ PIXELS (See P.37, P.49)
- ⑧ QUALITY (See P.37)
- ⑨ Remaining exposure counter
- ⑩ AE mode (aperture) (See P.40)
- ⑪ SAF/CAF (See P.78)
- ⑫ SHARPNESS (See P.40)
- ⑬ Chroma (See P.40)

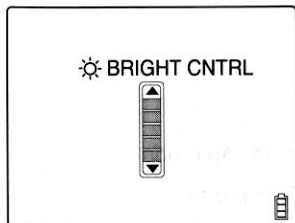
<“🎥” Movie mode>



- ⑭⑮ Focus frame (See P.41, P.52)
- ⑭ Wide focus frame ⑮ Spot focus frame
- ⑯ SCENE mode (See P.33)
- ⑰ Self-timer (See P.36, P.48)
- ⑱ Electronic zooming (See P.22)
- ⑲ Exposure compensation (See P.38, P.50)
- ⑳ Focusing gage (MF setting) (See P.44)
- ㉑ Date (See P.18)
- ㉒ Battery indicator (See P.16)
- ㉓ Voice (See P.52)
- ㉔ Remaining movie counter (total recordable seconds)
- ㉕ Frame/second (See P.49)

The information in the above illustrations is for explanatory purposes only. Some icons may differ from the actual indications.

<Controlling the brightness on the LCD monitor> (Turn the camera on.)

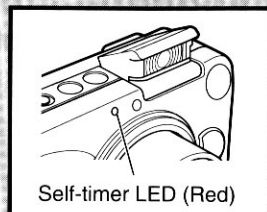
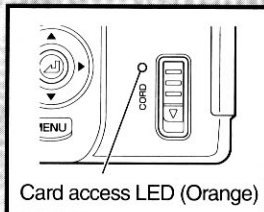
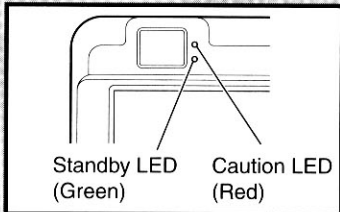


The brightness on the LCD monitor is basically controlled in the Set Up mode (see P.78), but it can also be controlled in the other modes.

Move the “” (selector lever) to “” or “” in “” or “” mode, a graph [: LCD Brightness] appears. Move the “” to “” or “” to control the brightness.

- When playing back still image with audio or movie, press the [DISPLAY] button once to delete the indication of the operation buttons and audio volume. After that, move the “” to “” or “” to display the graph [: LCD Brightness].

LED indicators



<Standby LED> (Green)

“,” “,” “” modes

- On The subject is in focus and a photograph can be taken.
- Flashing The subject is not in focus, but a photograph can be taken.

During battery pack charging

- On The battery pack has been charged.

<Caution LED> (Red)

“,” “,” “” modes

- Fast flashing A slow shutter speed is set. Be careful not to shake the camera when taking the picture.
- Slow flashing The flash is charging. Wait until flashing stops before taking the picture.

During battery pack charging

- On The battery pack is charging.
- Flashing The battery pack, AC adapter or camera has malfunctioned.

<Card access LED> (Orange)

“,” “,” “,” “” modes
SET UP modes

- Flashing The memory card is being accessed. For example, data is being saved to or read from the memory card

- The memory card door must not be opened and the memory card must not be removed when the LED is flashing. Failure to do so will cause damage to the image data, the memory card or the camera.

<Self-timer> LED (Red)

“,” “,” “” modes

- Flashing Self-timer is on
- On In the still photography or movie mode

“,” **SET UP**” modes

- On In the play mode or SETUP mode

When connected to a PC

- On The camera is connected to a PC.

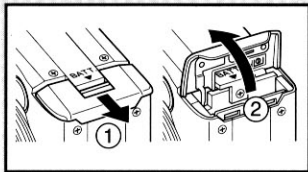


Preparations and Operating Checks

Preparations Before Shooting

1. Loading and Charging the Battery Pack

1

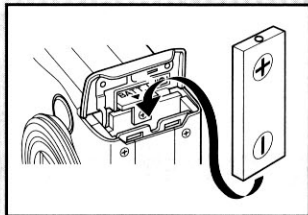


<Loading the battery pack>

1 Open the battery pack cover.

Slide it open as shown in the illustration.

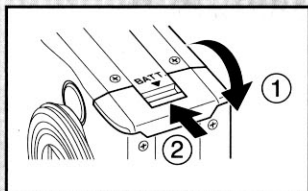
2



2 Slide in the included lithium ion battery pack.

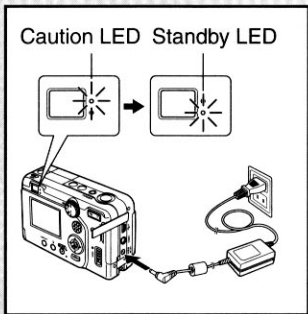
Check the direction of the + and – symbols shown on the battery pack before inserting it.

3



3 Close the battery pack cover.

- ① Close the battery pack cover.
- ② Slide to lock the cover.



<Charging the battery pack>

Load the battery pack in the camera, and connect the included AC adapter to the power supply input connector on the camera.

- Make sure that the camera is turned off before charging. It takes about 5 hours to charge the battery pack. The caution LED (Red) is lit while the battery pack charging. When the battery pack is fully charged, the caution LED goes out and the standby LED (Green) lights.

<Charging Status>

Use the battery indicator on the LCD monitor to check whether or not the battery pack needs to be charged.



Sufficient battery power



Half of the battery power has been used up.



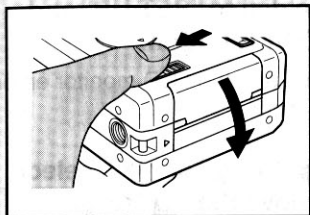
Battery power is low. Time to charge the battery pack.



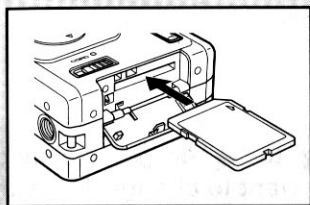
No charge remaining. The camera does not operate. Charge the battery pack.

2. Installing and Removing the Memory Card

1



2



<Installing the memory card>

1 Open the memory card door.

Slide the memory card door release lever downward to open the card door.

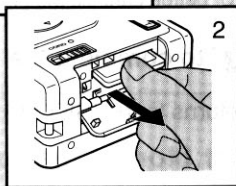
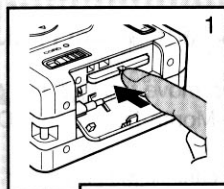
2 Insert the memory card.

Slide in the memory card until it clicks and stops.

- Be sure to insert the memory card in the right direction.
- Do not attach stickers or labels to the memory card. If you do so, you may not be able to remove the memory card.

3 Close the memory card door

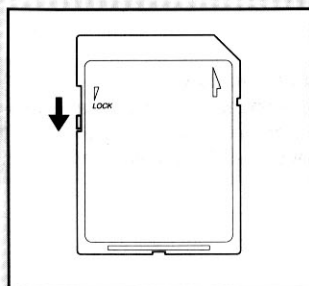
<Card removal>



<Removing the memory card>

- 1 Gently press the memory card inward to eject it.
- 2 Remove the memory card by pulling the card with your fingers.

Write protect switch



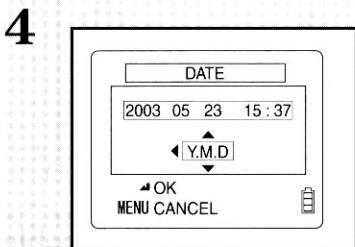
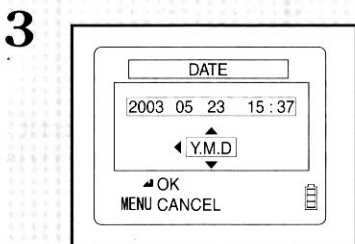
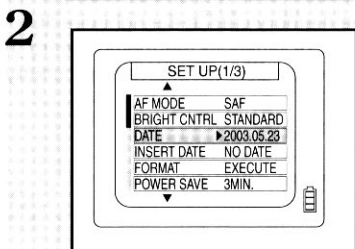
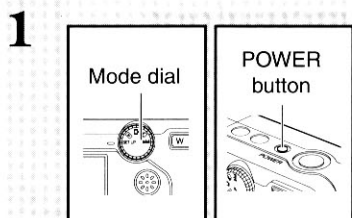
<SD memory card write protect (disable recording) switch>

As shown in the illustration, an SD memory card comes with a write protect switch.

When this switch is in the down position, recording on the card is disabled; this protects any images and data already on the card. In this status, images cannot be recorded and images on the card cannot be erased. In addition, some items in the menu cannot be selected.

The LCD monitor will display "WRITE PROTECT".

3. Setting the Time and Date



Follow these instructions to set the date and the calendar.

1 Set the mode dial to “SET UP” and press the POWER button.

The power comes on and the LCD monitor enters the [SET UP (1/3)] mode.

2 Move the “◀” to “▲” or “▼”, select [DATE] and move the “▶” to “▶”.

The LCD monitor enters the [DATE/TIME/ADJUSTMENT] mode.

3 Move the “▶” to “◀” or “▶” to select the item you want to change. Move the “▶” to “▲” or “▼” to change the numerical value.

● The time is displayed on a 24-hour clock.

4 Move the “▶” to “▶” and select [Y.M.D].

To change the [Y.M.D] order, move the “▶” to “▲” or “▼”. You can select Year-Month-Day, Month-Day-Year or Day-Month-Year.

● Pressing the “MENU” button cancels the setting.

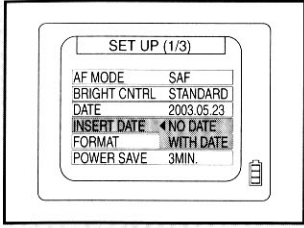
5 Press the “▶” to complete the setting.

The LCD monitor returns to the [SET UP (1/3)] mode.

Be sure to set the time and date.

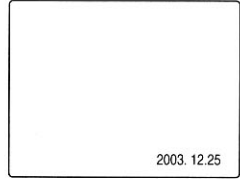
A digital camera stores images with the date and time on a memory card. This makes it easier to process the images on a computer and archive them in an album.

4. Imprinting the Date (Still Photography Mode)

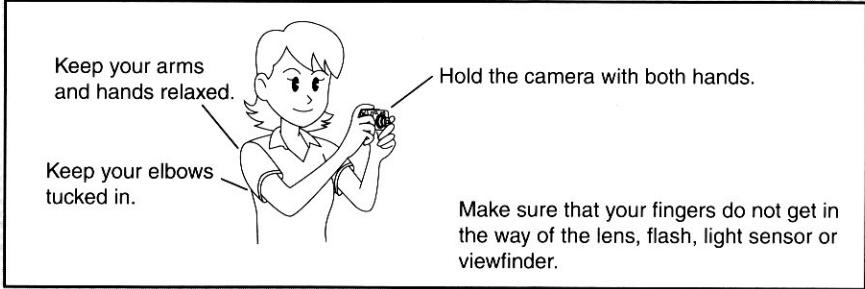


You can imprint the date on an image by setting [WITH DATE] for [INSERT DATE] in [SET UP (1/3)] on page 78. The date is entered in the lower right corner of the image.

- An imprinted date cannot be erased



5. Holding the Camera



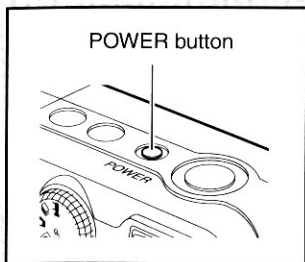
It is important to hold the camera firmly to take sharp photographs. Camera shaking is the most common cause of poorly focused photographs.



Preparations and Operating Checks

Basic Operation

1. POWER button

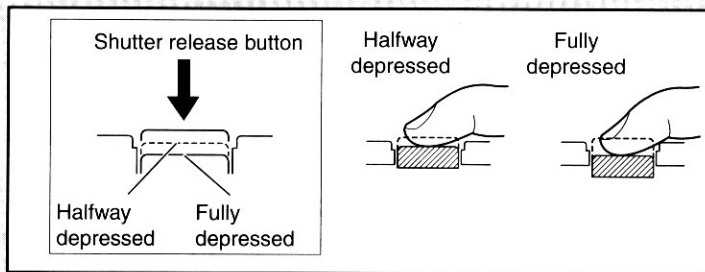


The POWER button turns the camera on and off.

When the power is turned on, a beep is sounded and the start screen appears on the LCD monitor. Pressing the button once more turns the power off.

- If you wish, you can set the camera so that the start screen does not appear. (P. 80)

2. Shutter Release button



The shutter release button has two positions. The first position is referred to as "halfway", the second position, or "fully depressed", is achieved by pressing the shutter release button all the way down. These shutter release button positions have the following functions.

Halfway

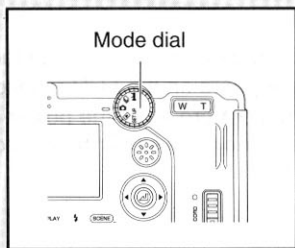
Focuses the lens and measures exposure.

Fully depressed

Releases the shutter and takes the picture.

- To prevent camera shaking, place your index finger firmly on top of the button and press it gently. Be sure to read the section on how to hold the camera. (P. 19)
- The sound of the shutter (SHUTTER VOL) that is made when the shutter is fully depressed can be adjusted on this camera. (P. 79)

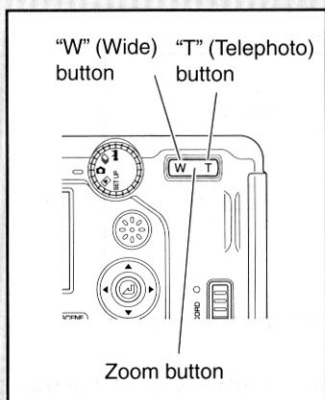
3. Mode Dial



The mode dial is used to select one of the following modes.

- 1 (movie recording) mode (P. 46)
 - 2 (continuous recording) mode (P. 28)
 - 3 (single frame recording) mode (P. 27)
 - 4 (playback) mode (P. 56, 74)
 - 5 "SET UP" (set up) mode (P. 77)
- * The modes of 2 & 3 are called "Still Photography Mode".

4. Zoom button



Photography (, ,) mode

In the above modes, the zoom button can be used to set the optical zoom or digital zoom (1.3x, 1.6x, 2.0x, 3.0x and 3.7x)

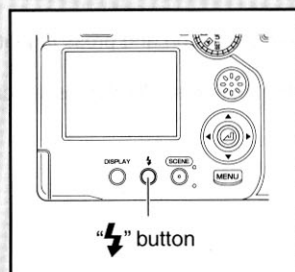
"" mode

The zoom button can be used to toggle between normal playback and enlarged playback (2x, 4x and 8x). (Still photography only)

Digital zoom

- The digital zoom uses interpolation to enlarge the image. Note that picture quality deteriorates as images are enlarged.
- Use the LCD monitor to view digital zoom images. The optical viewfinder cannot be used to view digital zoom images.
- The digital zoom in mode has the magnifications of 1.3x, 1.6x and 2.0x.
- When the LCD monitor is turned off, the digital zoom cannot be used.

5. "" Button



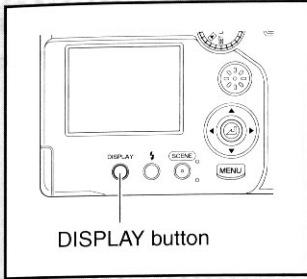
This button is used to make the following settings.

In the , mode: Use to switch between different flash modes (P. 31)

1. " AUTO" Auto flash mode (default setting) → 2. " AUTO" Red-eye reduction auto flash mode → 3. " Red-eye reduction" Flash-off mode → 4. " Fill-in flash mode → 1. Auto flash mode (This cycle is repeated.)

- In the Scene mode, the flash modes you can set are limited. (P. 35)

6. DISPLAY button



Switching over the LCD monitor display

In the “”, “”, “” mode:

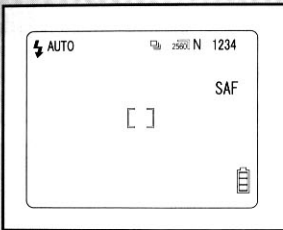
The display of the LCD monitor is switched over to “INFORMATION display ON”, “INFORMATION display OFF” and “Monitor OFF”.

In “” (Playback) mode:

- ① When playing back a still picture without movie: Image only → INFORMATION display ON
- ② When displaying a still picture with audio and movie: Display with operation buttons and audio volume indication → Image only → INFORMATION display ON

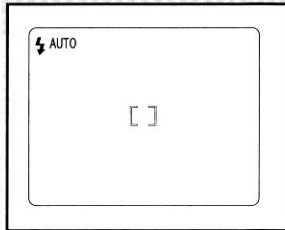
In the “”, “” mode

INFORMATION display ON



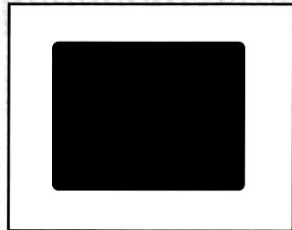
Shows a number of settings such as white balance, exposure compensation, ISO and sharpness.

INFORMATION display OFF



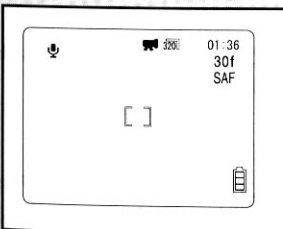
Shows only the flash symbol, scene mode, focus frame, and focus gage (in-focus icon).

Monitor OFF (Energy save mode)



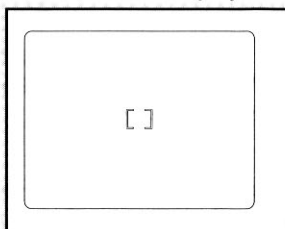
In the “” mode

INFORMATION display ON



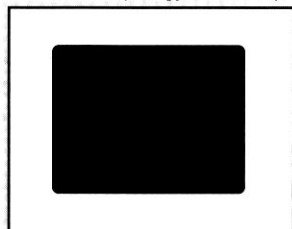
Shows the number of settings.

INFORMATION display OFF



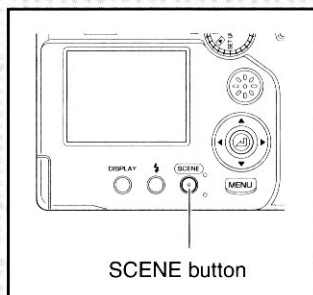
Only in the scene mode, focus frame, focus gauge (in-focus icon).

Monitor OFF (Energy save mode)



- When the power is turned on, the camera starts in the INFORMATION display ON mode.

7. SCENE button



The button allows you to select a scene from the following scene modes. Select one according to your shooting purpose.

The camera sets the most suitable exposure according to the selected scene mode.

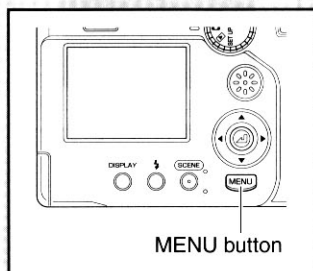
When using “”, “”, “” (P. 33)

1. STANDARD, 2. SPORTS ACTION,
3. NIGHT VIEW, 4. NIGHT PORTRAIT,
5. MACRO and 6. LANDSCAPE

When using “” (P. 47)

1. STANDARD, 2. MACRO and
3. LANDSCAPE

8. MENU button



This button enables you to make the following settings in the “”, “”, “”, “” modes.

- See P. 103 for the default settings.
- The menu items that are grayed out cannot be selected.

In the “” mode

Self-timer, Pixels, **fps** (frames / second), Exp. Comp., **WB** (White balance), **M** Set details (Sound, Color mode, WB preset, Focusing range, Power zooming)

In the “”, “” mode

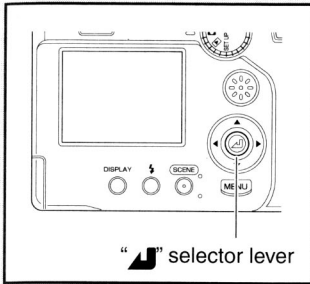
Self-timer, Pixels, Quality, Exp. Comp., **WB** (White balance), **M** Set details (Color mode, Chroma, Sharpness, WB preset, AE mode, Focusing range, Long-time exposure, ISO sensitivity, Metering mode, Power zooming)

In the “” mode







Multi/Single display, (Record), Protect, Erase, Erase All, (Resize, Rotate), Auto Play, (Print)








* In the movie playback mode, the functions in parentheses cannot be used.

9. “” Selector Lever



This lever is used for selecting or entering the menu items in each of the modes.

Move the “” (selector lever) to “”, “”, “” or “” to select the item and press “” to determine the item.

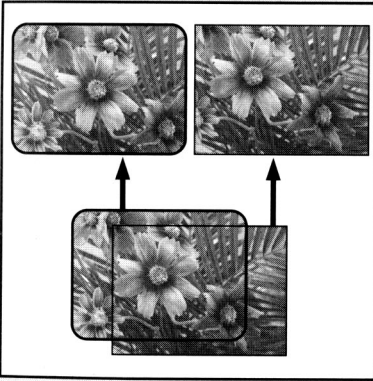
- In “”, “”, “”, “” mode, move the “” to “” or “” to control the contrast of the LCD monitor.

10. Optical Viewfinder

<Parallax>

Image viewed
from the
viewfinder

Actual image
captured by the
camera



When you are on a trip or in a situation where you cannot easily charge the battery pack, it is recommended that you turn off the LCD monitor and use the optical viewfinder to conserve battery power instead.

(See “DISPLAY” button on page 23.)

<Parallax>

Parallax is the difference between the image produced by the optical viewfinder and the image captured by the camera. This difference is particularly noticeable at close distances. Use the LCD monitor for taking macro photographs.

- In macro mode, the LCD monitor is turned on by pressing the shutter release button halfway down even if the LCD monitor is turned off.



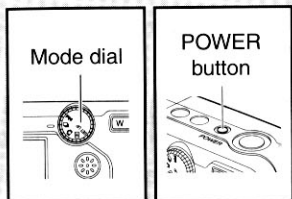
Photography

Basic Still Photography Procedure

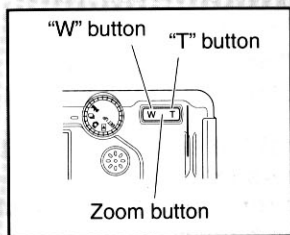
1. "📷" Single Frame Shooting

The "📷" single frame shooting mode automatically advances data one frame at a time. It is suitable for simple picture-taking. When you set the mode dial to "📷" and turn the camera on, the camera automatically sets the shutter speed and aperture (the exposure value) according to the brightness of the subject. This is the Program Auto Function mode. You can readily take photos without worrying about the exposure setting.

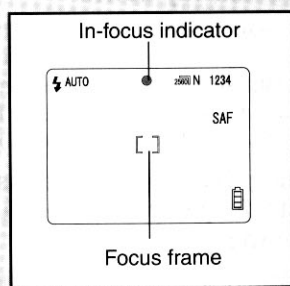
1



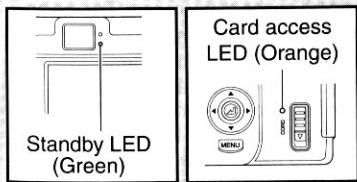
2



3



4



1 Set the mode dial to "📷" and press the POWER button to turn the camera on.

The lens cover opens automatically and the lens comes out. On the LCD monitor the start screen appears first, then the shooting screen.

- The date is displayed for approx. 3 seconds.

2 Press the "T" or "W" on the zoom button to set the size of the subject.

3 Aim the lens at the subject so that the subject appears in the focus frame on the LCD monitor and press the shutter release button halfway down.

The camera adjusts the exposure and focus. When the camera beeps and the "O" (focus lock mark, green) and the standby LED (green) beside the viewfinder light, the exposure and focusing adjustments are completed.

- When the in-focus indicator and the stand-by LED flash, the subject is not in focus. (Pictures can be taken.)
- When the caution LED flashes fast, the shutter release speed becomes slow. Use caution not to shake the camera when taking a picture.
- When the caution LED flashes slow, the flash is charging. Do not take the next picture until the caution LED goes out.


4 After confirming that the "O" in-focus indicator lights, fully depress the shutter release button to take the picture.

The captured image is stored on the memory card. The memory card access LED (orange) flashes during image storage.

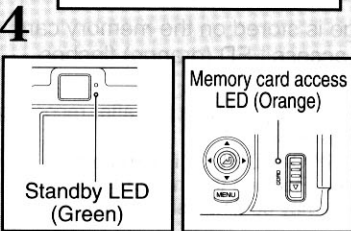
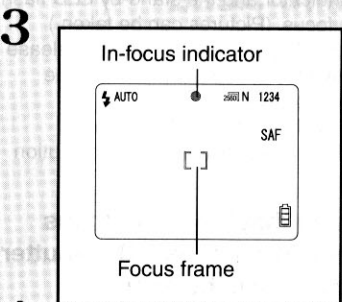
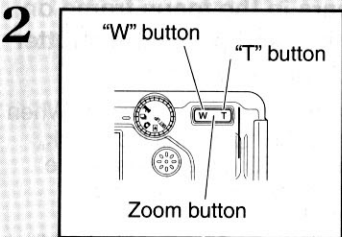
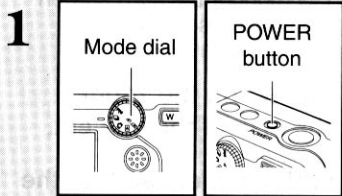
- You can confirm the captured image just after recording it. For the setting, see P. 80.

- When there is no more space left on the memory card, "MEMORY CARD FULL" is indicated on the LCD monitor and the shutter release button cannot be depressed. Replace the memory card with one that is empty or has enough free space left. In this state, you may continue shooting by changing the pixels or image quality.
- When the memory card access LED flashes the camera is writing an image on the card. To prevent corruption of the data and damage to the memory card or the camera, make sure that none of the following occurs while the LED is flashing.
 - The camera is exposed to vibration or shock.
 - The memory card door is opened, or the memory card is pulled out.
 - The battery pack or AC adapter is removed.


2. “” Continuous Shooting

The “” continuous shooting mode makes it possible to photograph continuously a baby in motion or ensure that the best pose of a baby is captured. You can record the subject while the shutter release button is depressed.

- The writing speed into the SD memory card varies with the memory card to be used.
- If you use the SD memory card for high-speed recording, you can take pictures at approx. 3 frames per second till the memory card's capacity becomes full.
- To use the best performance of this camera, it is recommended that the SD memory card should be formatted with this camera before taking pictures.
- The continuous shooting speed may be lower if you record and erase images repeatedly on and from the card. In such a case, once store the images in the PC or the like, and format the memory card with this camera before use.



1 Set the mode dial to “” and press the POWER button to turn on the camera.

The lens cover opens automatically and the lens comes out. “” appears on the LCD monitor.

- The date is displayed for approx. 3 seconds.

2 Press the “T” or “W” on the zoom button to set the size of the subject.

3 Aim the lens at the subject so that the subject appears in the focus frame on the LCD monitor and press the shutter release button halfway down.

The camera adjusts the exposure and focus. When the subject is in focus, the “O” (green focus lock mark) and the standby LED (green) at the side of the viewfinder come on.

- When the in-focus indicator and the standby LED flash, the subject is not in focus. (Pictures can be taken.)

4 After confirming that the “O” in-focus indicator lights, fully depress the shutter release button to take the picture.

Pictures can be shot at approx. 3 fps or less while the shutter release button is fully depressed.

The captured image is stored on the memory card. The memory card access LED (orange) flashes during image storage.

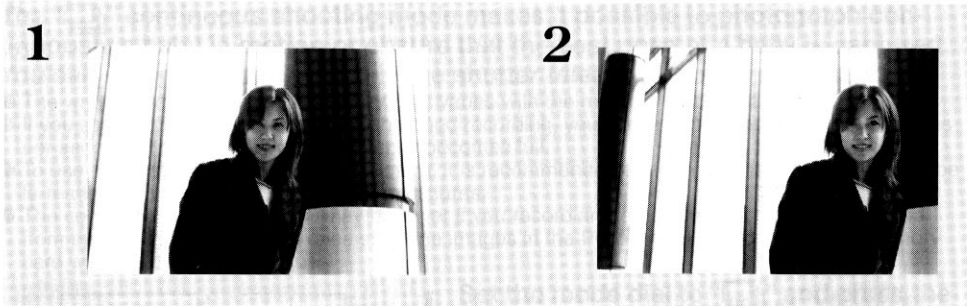
- Exposure and focus are set in the first frame.
- Continuous shooting is carried out at approx. 3fps.
- When you take your finger off the shutter release button, continuous shooting comes to end.
- In the self-timer mode, 3 frames are shot in approx. 1 second. When there is not enough space to take 3 frames, the recordable number of frames are shot.
- Shooting in dark places requires a slow shutter speed, so the shutter speed in continuous shooting mode also becomes low.
- Flash-off mode is selected when standard mode or sports mode is selected in the scene mode. If you want to use the flash, press the flash button and set the flash exposure mode.
- Using the flash in continuous shooting mode requires charging, resulting in low speed shooting.



Photography

Still Photography Techniques

1. Focus Lock Photography



Press the shutter release button halfway down to focus the subject. The “O” in-focus indicator lights and the focus locks (focus lock). Focus stays locked as long as the shutter release button is halfway depressed and does not change even when you move the camera.

Use the focus lock function when the composition forces you to place the subject outside of the camera’s focus frame.

1 Aim the lens at the subject so that the subject appears in the focus frame and press the shutter release button halfway down.

The subject is focused on, the in-focus indicator sounds and “O” and the standby LED (green) light on the LCD monitor and inside the viewfinder respectively to indicate that focus is locked.

● In addition to focus, the exposure is also locked (AE lock).

2 Keep the shutter release button halfway depressed, recompose the picture and fully depress the shutter release button.




● The focus lock is released when you take your finger off the shutter release button.





<Subjects that are difficult or impossible for the auto focus function to handle>

Since the following subjects are difficult to focus, focus on a different subject located at the same distance, use the focus lock and recompose the picture.

- Low contrast subjects
- Subjects with repeating patterns
- Dark subjects
- Subjects consisting of only the horizon or horizontal lines
- Extremely bright or glossy subjects
- When there is a strong light source in or near the focus frame, or there is sunlight or another strong light source on the screen.
- When there are two or more subjects at extremely different distances within the focus frame.

2. Flash Photography

The camera allows you to select the flash mode that you think best suits the image or the scene. In still photography mode ( or ), use the “” (flash) button to cycle through the different flash modes shown below. Select the desired flash mode.

1  AUTO Auto flash mode → 2  AUTO Red-eye reduction auto flash mode → 3 
Flash-off mode → 4  Fill-in flash mode

● If you set the ISO sensitivity to 400 or 800 in the flash photography mode, the shot picture will be over-exposed in the macro photography (ISO 400: 1.5 m or less, ISO 800: 2.5 m or less). Therefore, it is recommended to set the ISO sensitivity to 200 or less in the macro photography.

<1. “ AUTO” Auto Flash Mode> (Default setting)

The camera automatically judges the surrounding brightness to determine whether or not the flash is necessary.

<2. “ AUTO” Red-eye Reduction Auto Flash Mode>

It is called “red-eye” when the human’s eye come out red in a picture. (See “What is red-eye phenomenon?”) In this mode, two flashes are fired just before and after the picture is taken, which reduces the red-eye effect.

● The picture is captured during the second flash, not the first. After the first flash, use caution not to move the camera or the people who are to be in the picture.

“What is red-eye phenomenon?”

The red-eye phenomenon is caused by the intense, short burst of light from the electronic flash reflecting off the red blood vessels in the back of the eye. This causes the pupil area of the eye to appear red.

<3. Flash-off Mode>

Use this mode when you want to capture the mood a subject conveys at dusk or in a room and you do not want the flash to fire. This mode provides a natural image since exposure is determined by the light on the subject.

● Shooting in dark places requires a slow shutter speed (up to 1 sec). A tripod is recommended to prevent camera shaking.




<4. Fill-in Flash Mode>




In this mode, the flash fires regardless of ambient light conditions.



When you are taking photos outside in strong sunlight or subjects that are backlit, the subject often becomes dark. In this situation, the fill-in flash mode lightens the shadows to produce photos with clearly lit subjects and backgrounds. (Daylight sync exposure)



■ Available flash modes depend on camera modes as shown below.

“” Night View mode : “”(Flash-off mode)

“” Night Portrait mode : “ AUTO”(Auto flash mode) or “ AUTO”(Red-eye reduction auto flash mode)

“” Macro mode : “”(Flash-off mode) or “”(Fill-in flash mode)

“” Landscape mode : “”(Flash-off mode)

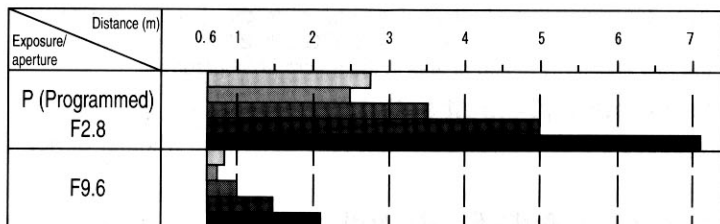
Long exposure : “”(Flash-off mode) or “”(Red-eye reduction auto flash mode)

When you want to take pictures of people at dusk or in a night scene and you want the background to appear in the photo, use the SCENE button to select the “Night Portrait” mode. In this mode, you can take both people and background clearly. (See P. 33.)

Allowable distance in flash photography mode

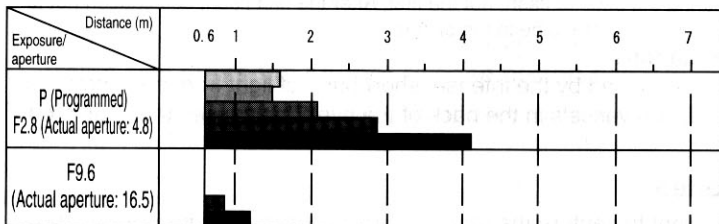
Wide (f = 7.3 mm)

ISO AUTO setting
 ISO100 setting
 ISO200 setting
 ISO400 setting
 ISO800 setting



Telephoto (f = 21.9 mm)

ISO AUTO setting
 ISO100 setting
 ISO200 setting
 ISO400 setting
 ISO800 setting

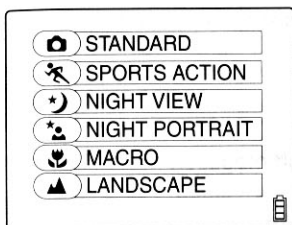


3. Photography Using the Scene button

By using the Scene button, the camera selects the suitable exposure according to the scene to be captured. For details of modes that can be set in this mode, see P. 35.

Set the mode dial to “ or ” and turn the camera on. By pressing the (Scene) button, the LCD monitor enters the scene mode. In this step, move the “” (selector lever) to “” or “” to switch over the mode among the following modes. 1. Standard mode → 2. Sports Action mode → 3. Night View mode → 4. Night Portrait mode → 5. Macro mode → 6. Landscape mode

- The LCD monitor returns to the state displayed just before the photography and the Scene mode mark appears on the monitor.
- When the power of the camera is turned off, the scene mode is released. If you want to keep using the selected scene mode, use the mode lock (P. 75).



<1. Standard mode>

This is the mode used for normal photography.

- In the continuous shooting mode, flash-off mode is selected. If you want to use the flash, press the flash button to set the flash mode.

<2. Sports mode>

The camera selects the suitable exposure for capturing sports action.

The continuous AF (CAF) mode that continuously keeps the subject in focus is selected. In addition, a little higher shutter speed is selected in the exposure program to capture the moving subjects.

- The shutter-relevant functions are limited so that long exposure, aperture priority and ISO sensitivity settings cannot be made.
- In the continuous shooting mode, flash-off mode is selected. If you want to use the flash, press the flash button to set the flash mode.

<3. Night View mode>

Use this mode to shoot night views.

The settings are as follows: focus “infinity”, “Flash-Off mode”, “ISO 100” and “F.2.8”

- A tripod is recommended to prevent camera shaking.

<4. Night Portrait mode>

Use this mode to take pictures of people at night.

Once the subject has been brought into focus by AF (Auto Focus), Single AF (SAF) for locking the focus in its current state or Continuous AF (CAF) for continuous focusing can be set. The flash mode can only be set to “auto flash” and “red-eye reduction auto flash” modes.

- A tripod is recommended to prevent camera shaking.

<5. Macro mode>

Use the macro mode to capture small subjects such as flowers or coins at a short distance. The shortest distance allowable is approx. 12 cm from the lens surface.

The lens locks in the wide (00mm) position. Once the subject has been brought into focus by AF (Auto Focus), Single AF for locking the focus in its current state or Continuance AF for continuous focusing can be set. The flash mode is automatically set to the flash-off mode, but it can be changed to the fill-in flash mode.

- The shooting distance from the subject to the lens in the macro mode is approx. 12cm to 55cm.
- In the fill-in flash mode, overexposure occurs. Adjust the exposure using the exposure compensation function (P. 38).
- Use the LCD monitor for taking pictures in the macro mode. When the optical viewfinder is used, an acute difference is observed between the image produced by the optical viewfinder and the image captured by the camera.
- The shooting area on the telephoto side when closest to the subject is about 34 x 45 mm. (Shooting distance: about 12 cm from the CCD)




<6. Landscape mode>




Use the landscape mode to capture landscapes.

The focus is set to "infinity" and the flash mode is fixed to flash-off mode.

3. Photography Using the Scene button

The detailed settings of the scene mode are as follows: ○ : Selectable

Detailed settings \ Scene mode	 Standard mode	 Sports Action mode	 Night View mode
AF mode (SAF/CAF)	○	Fixed to CAF	○
Flash mode	○	○	Fixed to flash-off
Focusing range Focusing (Spot AF, Wide AF, MF)	○	○	Fixed to infinity
Longtime exposure	○	Fixed to OFF	Fixed to OFF
ISO sensitivity setting	○	Fixed to AUTO	Fixed to ISO100
Exposure setting	○	Special program	Fixed to F2.8

Detailed settings \ Scene mode	 Night Portrait mode	 Macro mode	 Landscape mode
AF mode (SAF/CAF)	○	○	○
Flash mode	Auto flash or red-eye auto reduction flash	Flash-off or Fill-in flash	Fixed to flash-off
Focusing range Focusing (Spot AF, Wide AF, MF)	○	Spot AF or Wide AF Fixed to Macro	Fixed to infinity
Longtime exposure	Fixed to OFF	○	○
ISO sensitivity setting	Fixed to ISO100	○	○
Exposure setting	Fixed to F2.8	○	○

4. MENU button photography

<1. Self-Timer Photography>

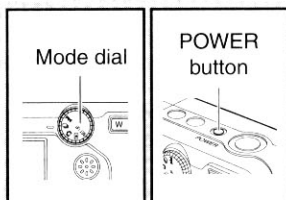
Use the self-timer for the following types of photography.

[10](10 sec.) : Use this mode to include yourself in the photograph.

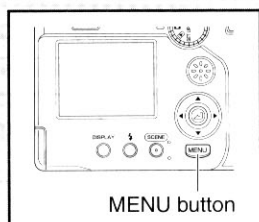
[2](2 sec.) : Use this mode when taking close-ups to prevent camera shaking.

[OFF] : Use this mode to cancel the self-timer and enable use of the shutter release button.

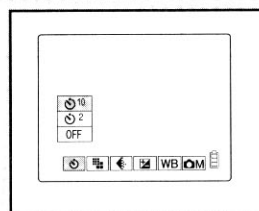
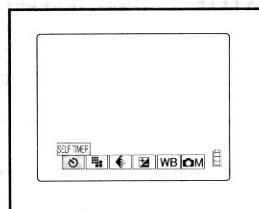
2



3



4



1 Place the camera on a tripod.

2 Set the mode dial to " or " and turn the camera on.

3 Press the "MENU" button to display the menu items. Move the "" (selector lever) to " or "" to select " (self-timer) and press the "".

4 Move "" (selector lever) to " or "" to select "10" (10 seconds) or "2" (2 seconds) and press "".

The camera displays the self-timer. This completes setting.

5 Press the MENU button to clear the menu items from the LCD monitor.

6 Aim the lens at the subject, press the shutter release button halfway down and check that "" on the LCD monitor lights before pressing the shutter release button fully.

7 The self-timer is activated and the shutter is released after 10 seconds or 2 seconds.

- The self-timer setting is canceled when the camera is turned off.
- The self-timer LED flashes during self-timer operation.
- The aperture and focus lock once the self-timer starts operating.
- If the shutter release button is pressed during self-timer operation, the self-timer returns to the original state.
- The self-timer cannot be started while the flash is charging.
- In the "" continuous shooting mode, pictures can be taken at about 3 fps. (Shooting in dark places or shooting in the flash mode requires a longer interval between shots.)

<2. Selecting Pixels and Quality>



The number of pixels means the number of tiny dots that make up the image.

The more dots there are, the higher the resolution of the image, but this also increases the image file size, meaning that fewer pictures can be recorded on a memory card.

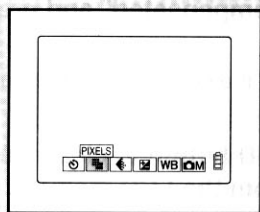
Quality is the compression ratio for converting the captured image into data.

“FINE” uses a low compression ratio so as not to lose details of the image. “NORMAL” uses a higher compression ratio, therefore the image slightly deteriorates, but more images can be recorded on a memory card.

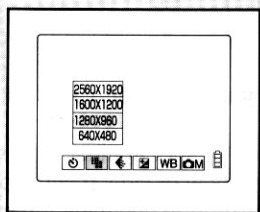
Approximate storage capacity of a 16MB memory card

 Pixels	 Quality	
	FINE (compression ratio: 1/4)	NORMAL (compression ratio: 1/8)
2560 × 1920	5 frames	11 frames
1600 × 1200	14 frames	29 frames
1280 × 960	23 frames	46 frames
640 × 480	90 frames	170 frames

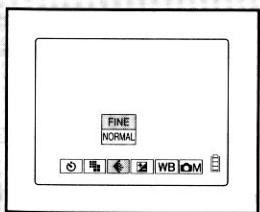
2






















3



5



- 1 Set the mode dial to “ or ” and turn the camera on.
- 2 Press the MENU button to display the menu items. Move the “” (selector lever) to “” or “”, select “” (Pixels) and press the “”.
- 3 Move the “” to “” or “”, select the desired number of pixels and press the “”.
- 4 Move the “” to “” to select “” (quality) and press the “”.
- 5 Move the “” to “” or “”, select the desired quality and press “”.

The camera indicates the pixels and quality. This completes setting.

- 6 Press the MENU button to clear the menu items from the LCD monitor.

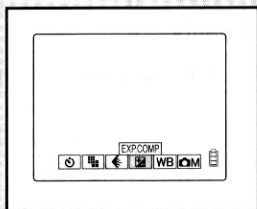
<3. Exposure Compensation>

When there is a marked difference in brightness between the main subject and the background, the main subject will not be correctly exposed. Exposure compensation is required in this type of situation. It can also be used to intentionally over- or underexpose an image.

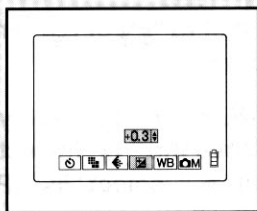
Exposure compensation can be set in 1/3 EV increments between +2EV to -2EV.












- When you compensate the exposure in the compensation evaluation mode, the center-weighted mode is automatically selected from the metering system.

2



3



- 1 Set the mode dial to “ or “” and turn the camera on.
- 2 Press the MENU button to display the menu items. Move the “” (selector lever) to “” or “” to select “” (exposure compensation) and press the “”.
- 3 Move the “” to “” or “”, select the “value to be compensated” and press “”.

The camera indicates the compensation value. This completes the setting.

- 4 Press the MENU button to clear the menu items from the LCD monitor.

- If you decide not take the shot after setting compensation, return the setting to “0.0” as described in steps 2 and 3 above.



+ compensation

No compensation



- compensation

No compensation

Backlit subjects

Set a compensation value between +0.3EV and +2EV.

Subjects that are backlit or shot against the sky or sea, subjects near a window or similar situations when a strongly lit background occupies the major part of the frame tend to be underexposed and are often rendered as a silhouette. Use a compensation value between +0.3EV and +2EV to increase exposure.

Dark backgrounds






Set a compensation value in a range of -0.3EV to -2EV.

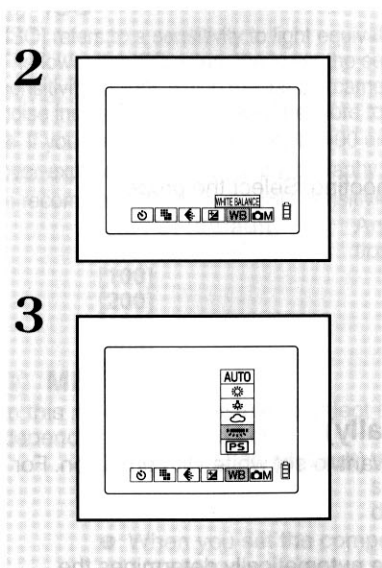
A strongly lit subject against a dominating dark background, such as a person in a spot light, becomes overexposed and gets a “washed out” look. Use a compensation value between -0.3EV to -2EV to decrease exposure.











<4. White Balance Adjustment>

Unlike the human eye that automatically adjusts for differences in ambient light, the CCD in a camera must be adjusted for the colors of the light source to render white as white. Sunlight, incandescent lighting and interior fluorescent lighting all require different white balance settings. Set white balance as dictated by the light source.

White balance types

- [AUTO] Initial setting. Automatically set the white balance according to the light source
- [] Bright outdoor daylight
- [] Interior incandescent lighting
- [] Cloudy outdoor lighting
- [] Interior fluorescent lighting
- [] Set manually using a white object (P.43)



- 1** Set the mode dial to " or " and turn the camera on.
- 2** Press the MENU button to display the menu items. Move the "" (selector lever) to " or "", select "WB" (White balance) and press the "".
- 3** Move the "" to " or "", select the desired item and press "".
The camera indicates the set white balance mark. This completes the setting.
● [AUTO] mark is not indicated.
- 4** Press the MENU button to clear the menu items from the LCD monitor.

<5. Other “CAM” detailed settings>

These “CAM” detailed settings allow you to set functions of a single lens reflex camera such as AE mode and long exposure, as well as color and chroma which are peculiar to digital cameras.

- There are two screens of “CAM” detailed settings: 1/2 and 2/2. Move “▲” (selector lever) to “▲” or “▼” and select an item.

① Color mode

The normal setting is color, but you can select a color scheme so that pictures come out with sepia tones or in black-and-white.

[COLOR] (default)

[B/W]

[SEPIA]

② Chroma

Adjusting the contrast

[+] High contrast

[STANDARD] (default)

[-] Low contrast

③ Sharpness (sharpening the outline)

Use this mode to sharpen the outline of the subject in shooting. Select the proper enhancement.

[+3] Intensifies outline enhancement

[+2]

[+1]

[STANDARD] (default)

[-1] Suppresses outline enhancement



④ WB preset (Setting white balance manually)

Use this mode if there are multiple light sources or you want to set white with precision. For the setting procedure, see P. 43.

⑤ AE mode

This mode can be set to [PROGRAM] so that the camera automatically determines the aperture value and the shutter speed, or to [F2.8] or [F9.6] so that the aperture value is fixed and the shutter speed is left up to the camera. The higher the aperture value, the wider the area (front to back) that is clearly in focus around the subject.

[PROGRAM] (default) The camera determines the shutter speed and aperture value according to the subject.

[F2.8] The area clearly in focus is lengthwise narrower, making the subject stand out.

[F9.6] The area clearly in focus is lengthwise wider and both the subject and its background are clearly photographed.

⑥ Focusing

This function allows you to select the focus mode.

[WIDE AF]: The area clearly in focus becomes wider so that this mode is good for normal photography. The wider focus frame

[SPOT AF]: (Default) Standard focus frame

[MF] (Manual Focus): Allows you to focus manually by determining the focal distance.

For the setting procedure, see P. 44.

- AF: Auto Focus (The camera is automatically focused.)

⑦ LONG EXP.

Allows you to take long exposures of 2 to 8 sec. This feature is useful for photographing fireworks and night scenes.

[OFF] (Default) Normal shots (1 to 1/2000 second) can be taken.

[2 SEC]

[4 SEC]

[8 SEC]

- Use a tripod to prevent the camera from shaking.

⑧ ISO

[ISO] refers to a sensitivity to light equivalent to the ISO sensitivity of film.

The lower the ISO value, the lower the sensitivity to light. The higher the ISO value, the higher the sensitivity to light, which means the camera reacts to low levels of light. When ISO is set to a high value, noise increases in the image, therefore to minimize this noise, select as low an ISO value as possible.

● If you set the ISO sensitivity to 400 or 800 in the flash photography mode, the shot picture will be over-exposed in the macro photography (ISO 400: 1.5 m or less, ISO 800: 2.5 m or less). Therefore, it is recommended to set the ISO sensitivity to 200 or less in the macro photography.

[AUTO] (default) An ISO sensitivity that matches the surrounding conditions is set by the camera.

[100]

[200]

[400]

[800]

⑨ METERING

In this mode, it is possible to select the area to be exposed. Use the following settings depending on the subject.

[EVALUATION] (default) With this method, the entire screen is divided into 256 sections and the amount of light is measured for each to determine the best exposure value for the subject.

- When you set the compensation exposure, the center-weighted mode is automatically selected from the metering system.

[CENTER] With this method, weight is given to the amount of light in the central area of the screen (larger than SPOT AREA).

[SPOT AREA] With this method, the amount of light at the center of the screen is measured.

⑩ DIGITAL ZOOM

When composing your picture, first press the TELE button until the optical zoom is maximized. Then, release it and press it again to begin digital zooming. (magnification: 1.3x, 1.6x, 2.0x, 3.0x, or 3.7x, see P. 22) Select [OFF] to not use the digital zoom.

[ON] (default) Digital zoom can be used.

[OFF] Digital zoom cannot be used.

* There is no icon display for either setting.

- The magnification rate is displayed when the camera uses the digital zoom function.

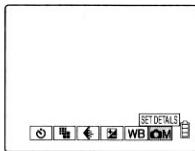
How to Set “OM” Detailed Settings

Set detailed settings as follows.

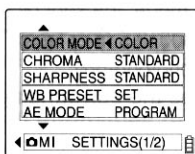
- There are two screens of detailed settings: 1/2 and 2/2. Move “**▲**” (selector lever) to “**▲**” or “**▼**” and select an item.
- To set “WBPRESET” or “MF” in “FOCUSING”, see P.43 and P.44 respectively.

2

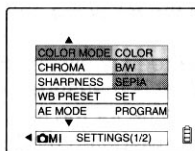
The SETTINGS 1/2 screen appears on the LCD monitor.



3



4



The color choices appear on the LCD monitor.

Example: Setting the color mode

- 1 Set the mode dial to “**📷** or **📺**” and turn the camera on.
- 2 Press the MENU button to display the menu items. Move the “**▲**” (selector lever) to “**◀**” to select “**OM**” (detailed settings) and press “**▲**”.

The SETTINGS 1/2 screen appears on the LCD monitor.

- 3 Move “**▲**” to “**▲**” or “**▼**”, select “**COLOR MODE**” and move “**▲**” to “**▶**”.

The color choices appear on the LCD monitor.

- 4 “Move “**▲**” to “**▲**” or “**▼**”, select a color and press “**▲**”.

This completes setting and the camera returns to the screen in step 3.

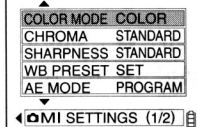
- 5 Press the “**MENU**” button to return to the shooting screen.

How to Set “WB PRESET” (Manual white balance setting)

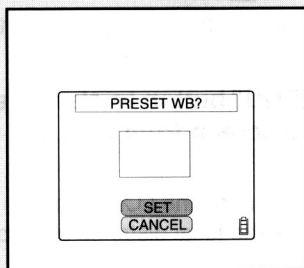
Use this mode if there are multiple light sources or you want to set white with precision.

2

The SETTINGS 1/2 screen appears on the LCD monitor.



3



- 1 Set the mode dial to “ or ” and turn the camera on.
- 2 Press the MENU button to display the menu items. Move the “” (selector lever) to “”, select “M” (detailed settings) and press “”.

The SETTINGS 1/2 screen appears on the LCD monitor.

- 3 Move “” to “” or “”, select “WB PRESET” and move “” to “”.

[PRESET WB?] appears on the LCD monitor.

- 4 Approach the object that serves as the white reference until it fills the screen, check that [SET] is selected and press “”.

This completes setting and the camera returns to the screen in step 2.

- The setting operation is stopped by moving “” to “”, selecting [CANCEL] and pressing “”.

- 5 Press the MENU button to clear the SETTINGS 1/2 screen from the LCD monitor.

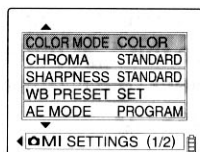
- “PS” appears on the LCD monitor.
- A manually set white balance is memorized and held until changed. If the light source changes, change the setting.
- When the camera is turned off, the white balance is automatically returned to “AUTO.” If you don’t want to change the white balance setting, use the mode lock function (P. 77).

How to Set [MF] in “FOCUSING” (Manual Focusing)

Manual focusing is useful when you want to determine focal distance yourself.

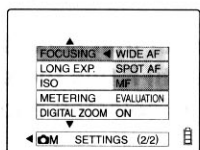
2

The SETTINGS 1/2 screen appears on the LCD monitor.



4

The focus mode items appears on the LCD monitor.



1 Set the mode dial to “ or ” and turn the camera on.

2 Press the MENU button to display the menu items. Move the “” (selector lever) to “”, select “” (detailed settings) and press “”.

The SETTINGS 1/2 screen appears on the LCD monitor.

3 Move “” to “” or “”, select “FOCUS” and move “” to “”.

The focus mode items appears on the LCD monitor.

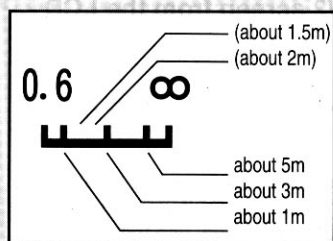
4 Move “” to “” or “”, select “MF” and press “”.

This completes setting and the camera returns to the screen in step 3.

5 Press the “MENU” button to clear the SETTINGS 2/2 screen from the LCD monitor.

The focus gauge appears on the LCD monitor, therefore manually set the focal distance as follows.

Reference for focal distance



How to Set Focal Distance

Move “” to “” or “” and set the focal distance.

- The selectable distance is about 0.6m, 1m, 1.5m, 2m, 3m, 5m, and
- Focus in the manual focus mode cannot be checked in the viewfinder. Use the LCD monitor instead.

Photography

Movie Recording

This camera is provided with a movie function. The maximum recording time and the playback screen size vary with the number of pixels and frames per second you set. In the normal setting mode, the pixel count is 320 x 240, and the frames per second is 30 fps.

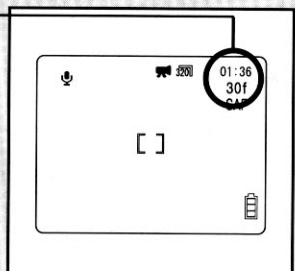
- For selecting the number of pixels and frames, see P. 49.
- For the playback screen size, see P. 73.

1. Recording Movies

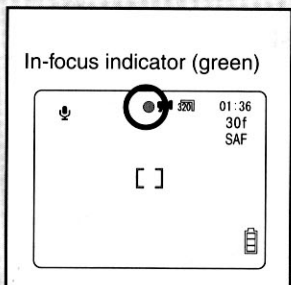
This camera is provided with a movie function. The maximum recording time and the playback screen size vary with the number of pixels and frames per second you set. In the normal setting mode, the pixel count is 320 x 240, and the frames per second is 30 fps. (Audio is also recorded with the movie.)

- For selecting the number of pixels and fps, see P. 49.
- For the playback screen size, see P. 73.

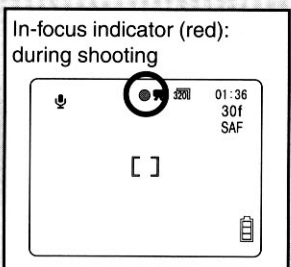
- 1** Counter display
Before shooting: total time that can be recorded
During shooting: Recording time




- 3** In-focus indicator (green)



- 4** In-focus indicator (red):
during shooting



- 1** Set the mode dial to “” and press the “POWER” button to turn the camera on.

- The flash cannot be used during movie recording.

- 2** Look at the LCD monitor to compose the movie.

You can use the zoom button to adjust the subject size on the monitor.

- 3** Aim the focus frame at the subject and depress the shutter release button halfway.

When the subject is in focus, the “O” in-focus indicator lights.

- 4** Confirm that the “O” in-focus indicator lights before you fully depress the shutter release button.

The “O” in-focus indicator changes from green to red to indicate that shooting has started.





The recording time is also indicated.





- The focus is locked during shooting (both in SAF and CAF).
- The optical zoom cannot be used while shooting with audio recording, but the digital zoom can be used. When movies without audio (P.52) are set, both the optical zoom and the digital zoom can be used.

- 5** Depress the shutter release button halfway to end the shooting session.

- The counter indication becomes red when the allowable shooting time is less than 10 seconds.

2. Photography Using the Scene button

1. Set the mode dial to “” and turn the camera on.
2. By pressing the scene button (“SCENE”), the LCD monitor enters the scene mode. The “SCENE” modes include 1.  Standard mode, 2.  Macro mode and 3.  Landscape mode.

3. Move the “” (selector lever) to “” or “”, select the desired scene mode and press the “”.

The scene mode is determined here. Shoot images as explained in steps 2 and after of Movie Recording (P. 46).

● The scene mode is released by turning the camera off. To keep the setting, use the Mode Lock (P. 77).

<1. Standard mode>

This is the mode used for normal photography.

● The focus is locked during photography. (in both SAF and CAF modes)

<2. Macro mode>

Use the Macro mode to capture subjects at short distance. (Shooting area: about 12cm to 55cm)

Once the subject has been brought into focus by AF (Auto Focus), Single AF for locking the focus in its current state or Continuous AF for continuous focusing can be set.




● The focus is locked during photography. (in both SAF and CAF modes)

<3. Landscape mode>

Use the landscape mode to capture landscapes.

The focus is fixed to “infinity”.

The detailed settings of the Scene mode are as follows:○: selectable

Detailed settings \ Scene mode	 Standard mode	 Macro mode	 Landscape mode
AF mode (SAF/CAF)	○	○	○
Focusing (Spot AF, Wide AF, MF)	○	Spot or Wide	Fixed to Infinity

3. Photography Using the MENU Button

<1. Self-timer Recording>

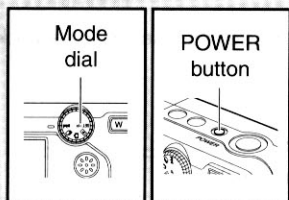
Use self-timer for the following types of photography.

[]10(10 sec.): Use this mode to include yourself in the photograph.

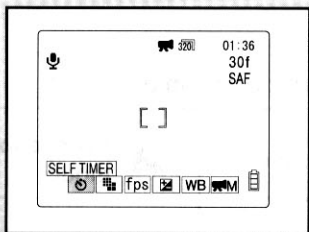
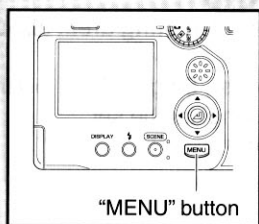
[]2(2 sec.): Use this mode when taking close-ups and making copies to prevent camera shaking.

[OFF]: Use this mode to cancel self-timer control photography and enable use of the shutter release button.

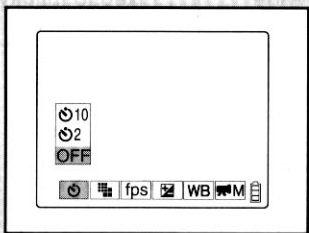
2



3



4



1 Place the camera on a tripod.

2 Set the mode dial to " " and turn the camera on.

3 Press the "MENU" button to display the menu items. And, move the " " (selector lever) to " " or " ", select " " self-timer and press the " ".

4 Move the " " to " " or " ", select " 10" (10seconds) or " 2" (2second) and press " ".

Displays the self-timer. This completes setting.

5 Press the "MENU" button to clear the menu items from the LCD monitor.

6 Aim the lens at the subject, press the shutter release button halfway down and check that " " on the LCD monitor lights before pressing the shutter release button fully.

7 The self-timer is activated and the shutter is released after 10 seconds or 2 seconds.

8 Press the shutter release button half-way down to finish the photograph.

- The self-timer setting is canceled when the camera is turned off.
- The self-timer LED flashes during self-timer operation.
- The focus locks once the self-timer starts operating.
- If the shutter release button is pressed during self-timer operation, the self-timer returns to the original state.

<2. Selecting the Number of Pixels and Frames per Second>

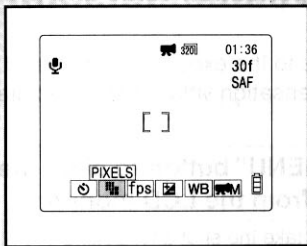
With movies, you can select from three pixels counts and 2 frame speeds. The higher the pixel count, the more detailed the image. The faster the frame speed, the smoother the movie. Also, recording time is as follows.

- The size of the playback image differs according to the number of pixels used in recording. For details, see P.73.

Approximate maximum recording time of a 16MB memory card

PIXELS		30 fps (Default)	15 fps
640	640 × 480	6 seconds	12 seconds
320	320 × 240 (default)	25 seconds	49 seconds
160	160 × 120	93 seconds	175 seconds

2



- 1 Set the mode dial to "M" and turn the camera on.

- 2 Press the "MENU" button to display the menu items. Move the "▲" (selector lever) to "◀" or "▶", select "PIXELS" and press the "▲".

- 3 Move the "▲" to "▲" or "▼", select the desired number of pixels and press the "▲".

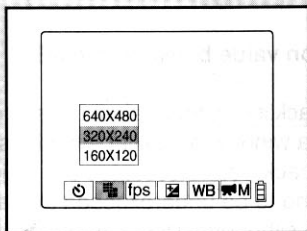
- 4 Move the "▲" to "▶" to select "fps" (frames per second) and press the "▲".

- 5 Move the "▲" to "▲" or "▼" to select desired frames per second and press "▲".

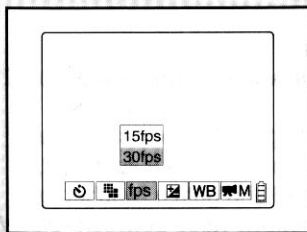
The camera indicates the pixel count and the frames per second. This completes setting.

- 6 Press the "MENU" button to clear the menu items from the LCD monitor.

3



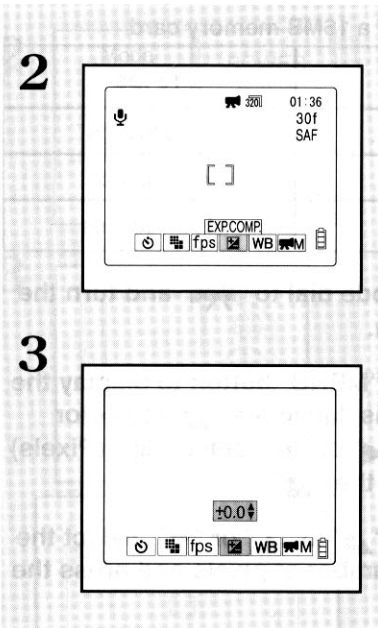
5



<3.Exposure Compensation>

When there is a marked difference in brightness between the main subject and the background, the main subject will not be correctly exposed. Exposure compensation is required in this type of situation. It can also be used to intentionally over- or underexpose a movie.

Exposure compensation can be set in 1/3 EV increments between +2 EV to -2EV.



1 Set the mode dial to “” and press the POWER button to turn the camera on.

2 Press the MENU button, move “” (selector lever) to “” or “”, select “” (Exposure Compensation) and press the “”.

3 Move “” to “” or “”, select the desired compensation value and press “”.

The camera returns to the exposure screen and indicates the compensation value. This completes setting.

4 Press the “MENU” button to clear the menu items from the LCD monitor.

- If you decide not to take the shot after setting compensation, return the setting to “0.0” as described in steps 2 and 3.

Backlit subjects

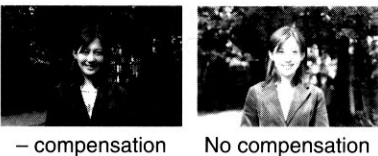
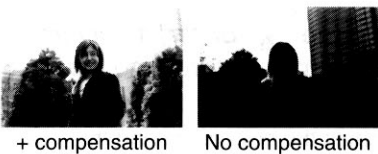
Set a compensation value between “+0.3EV” and “+2EV”.

Subjects that are backlit or shot against the sky or sea, subjects near a window or similar situations when a strongly lit background occupies the major part of the frame tend to be underexposed and are often rendered as a silhouette. Use a compensation value between +0.3EV and +2EV to increase exposure.

Dark backgrounds

Set a compensation value in the range “-0.3EV” to “-2EV”.






A strongly lit subject against a dominating dark background, such as a person in a spot light, becomes overexposed and gets a “washed out” look. Use a compensation value between -0.3EV to -2EV to decrease exposure.



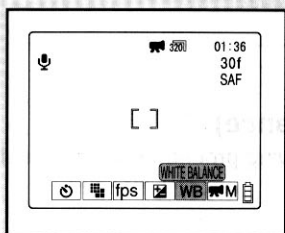
<4. “WB” Setting White Balance>

Unlike the human eye that automatically adjusts for differences in ambient light, the CCD in a camera must be adjusted for the colors of the light source to render white as white. Thus, sunlight, interior incandescent lighting and interior fluorescent lighting all require different white balance settings. Set white balance as dictated by the light source.

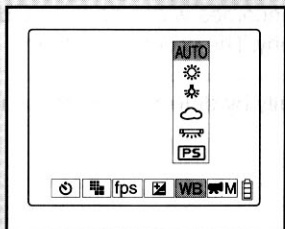
White balance types










- [AUTO] Default. Automatically sets the white balance according to the light source.
- [] Bright outdoor daylight
- [] Interior incandescent lighting
- [] Cloudy outdoor lighting
- [] Interior fluorescent lighting
- [] Manually set white balance (P.52)

2



3




- 1 Set the mode dial to “” and turn the camera on.
- 2 Press the MENU button to display the menu items. “” (selector lever) to “” or “”, select “WB” (white balance) and press the “”.
- 3 Move “” to “” or “”, select the desired item and press the “”.

The camera returns to the exposure screen and indicates the white balance value. This completes setting.

- 4 Press the “MENU” button to clear the menu items from the LCD monitor.

<5. Other “M” detailed settings>

These “M” detailed settings allow you to set the audio mode, WB preset, digital zoom and more.

① With Sound/No Sound

The camera allows you to select movie recording with or without audio.


- [ON] (With sound): (default):** Adds audio to the movie, but you cannot zoom. The digital zoom can be used.
- [OFF] (No sound):** Does not add audio to the movie, but you can use the optical zoom.

● For setting procedures, see P.53.

② Changing COLOR

The normal setting is color, but like with still photography, you can select sepia tones or black-and-white.

- [COLOR] (default)**
[B/W] (black-and-white)
[SEPIA]

● For details on settings, see P.42. Set the mode dial to “”.

③ WB Preset (To manually set the white balance)

In a scene with many different light sources, use the following procedure to accurately set white balance.


● For details on setting, see P.43. Set the mode dial to “”.

④ Focusing

This function allows you to select the focus mode.

- [WIDE AF]:** The area clearly in focus becomes wider, so this mode is good for normal photography. The wider focus frame
- [SPOT AF]: (default)** Standard focus frame
- [MF] Manual Focus:** Allows you to focus manually by determining the focal distance.

○ AF: Auto focus (The camera is automatically focused.)

● For details on setting, see P.44. Set the mode dial to “”.

⑤ Digital Zoom

When composing your picture, first press the TELE button until the optical zoom is maximized. Then, release it and press it again to begin digital zooming. (magnification: 1.3x, 1.6x or 2.0x, see P.22) Select [OFF] to not use the digital zoom.

- [ON] (default)** Digital zoom can be used.
- [OFF]** Digital zoom cannot be used.

* There is no icon display for either setting.

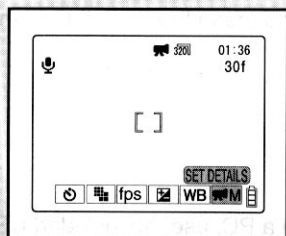
● The magnification rate is displayed when the camera uses the digital zoom function.

● For setting procedures, see P.53. For detailed settings, use [Digital Zoom].

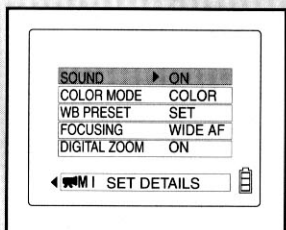
● After recording the movie, the digital zoom function is released.

How to Set “M” in the Detailed Settings

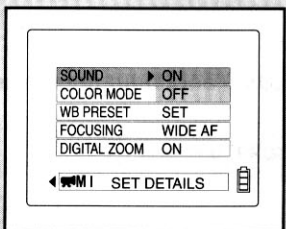
2



3




4

**Example: Setting the audio mode to [OFF]**

- Audio cannot be recorded after the movie has been taken.

1 Set the mode dial to “” and turn the camera on.

2 Press the “MENU” button to display the menu items. Move “” (selector lever) to “” or “”, select “M” (detailed settings) and press “”.


The “M” detailed setting will appear.


3 Confirm that “Sound” is selected and move “” to “”.

The audio mode choices appear on the LCD monitor.

4 Move the “” to “”, select [OFF] and press “”.

5 Press the MENU button to erase the menu display.

This completes setting, the camera returns to the screen in step 2 and “” (audio off icon) appears on the LCD monitor.

② For the color mode setting, see P. 42, ③ for the WB preset setting, see P. 43, and ④ for the focusing setting, see P. 44. When using the above settings, use the mode dial “”.

When the Memory Card Becomes Full

MEMORY CARD FULL



When the memory card becomes too full to record any more images, [MEMORY CARD FULL] appears on the LCD monitor. In this situation, either insert a new memory card into the camera or save the images on a PC and erase those on the memory card.



To save images on a PC, use the included USB cable. For details, see P.87.

Also, there are two ways to erase all images on the memory card: [ERASE ALL] and [FORMAT]. For [ERASE ALL], see P.63. For [FORMAT], see P.83.

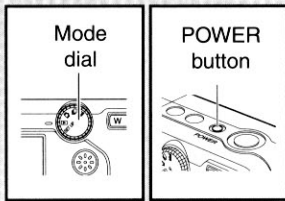
Playing and Erasing

Playback menu functions (○:Usable, ×:cannot be used)

	MULTI Display SINGLE Display	RECORDING	PROTECT	ERASE	ERASE ALL	RESIZE	ROTATE	AUTO PLAY	PRINT
Still photography	○	○	○	○	○	○	○	○	○
Movie	○	×	○	○	○	×	×	○	×

1. Playback of Still Photography

1






1 Set the mode dial to “” and turn the camera on.

- Check that a memory card is inserted.

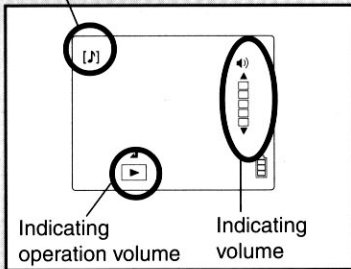
2







2 The last image shot appears on the LCD monitor.

Use the “” button on the “” (selector lever) to display the images in the order they were taken and use the “” button to view them in reverse order.

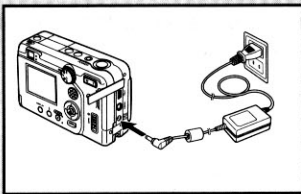
Still image with audio



- The “” icon appears when a still image with audio is played back. Press “” to play back the audio. Use the “” or “” to adjust the playback volume.

- The display with the operation button and audio volume indications can be erased. The LCD monitor display switches over by pressing the DISPLAY button as follows:

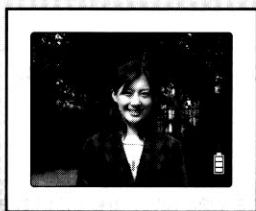
Display with the operation button and audio volume indications → Image only → INFORMATION display ON



Connect the camera to the AC adapter for long shooting sessions.

2. Close-up Image Playback (2x, 4x, 8x)

1



Playback still images can be enlarged to twice, four or eight times their original size.

1 Display the image you want to enlarge.

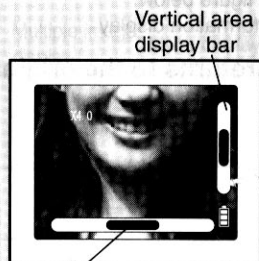
2 Press the “T” (telephoto) zoom button.

Press the “T” zoom button once to double the center of the image. Press it once more to enlarge it four times and press it again to enlarge it eight times. “2.0x”, “4.0x” or “8.0x” is indicated in the upper right corner of the screen.

3 Move the “▲” (selector lever) to “▲, ▼, ◀ or ▶” to select the area you want to display.

- The area display bars show the enlarged position and enlarged width.
- To return to the original image size, press the “W” (wide) zoom button.
- Release the enlarging function before switching over the image to the next one or previous one.

2



3



3. Displaying Exposure Information (Information Display) (🔊)

The exposure information can be displayed in an information display.

1 Select and display the image whose information you want to see.

2 Press the “DISPLAY” (display) button.

The image and the exposure information when the image was shot are displayed.

● Still images with audio and movies are indicated as shown in the figure below:

Operation buttons and audio volume display >> only image >> information display

3 Press the “DISPLAY” button again. The screen returns to the original display.

Still image

The screenshot shows the 'INFORMATION' display for a still image. The text is as follows:

Folder name and Image file name	258-KIF_0049.JPG	File size	764KB
Image quality setting	N	Protect status	
Shutter speed	2560x1920	Sound ON/OFF	
Aperture	1/181 F 2.8 0.0	Exposure compensation	
ISO	ISO100	DPOF setting:	
Date of exposure	DPOF 0PCS	Number of prints and date imprint ON/OFF	
	2003.01.03 02:11:24		

Movie

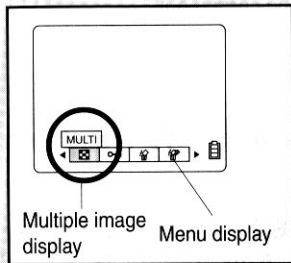
The screenshot shows the 'INFORMATION' display for a movie file. The text is as follows:

Folder name and Movie file name	100-KIF_0048.AVI	File size	5870KB
Movie mark	🔊 320x240	Sound ON/OFF	
Pixels		Protect status	
Date of exposure	2003.12.25 09:25:30		

4. Multiple Image Display (Index Display)



2



Multiple image display allows you to display six images on the LCD monitor at the same time. This is helpful in making selections when there are a great many images on the memory card. This feature can be used together with other playback menu functions.

1 Set the mode dial to “” and turn the camera on.

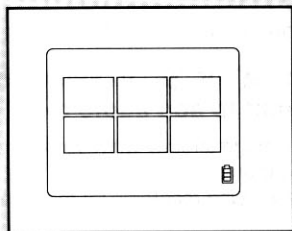
2 Press the “MENU” button to display the menu items. Move “” (selector lever) to “” or “”, select “” (MULTI) and press “”.

The multiple image screen appears on the LCD monitor.

3 Use “”, “”, “” or “” on the “” button to select an image.

4 To view the selected image at normal size (SINGLE display), press “”.

3



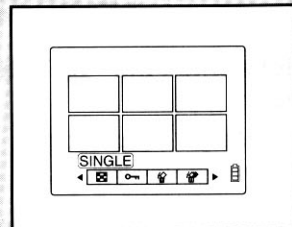
4



<Convenient uses>

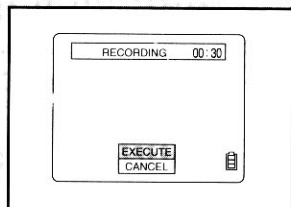
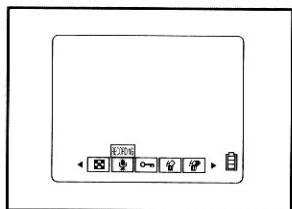
By pressing the “MENU” (MENU) button in multiple image display, you can access other functions, such as recording, protect and erase. Move the “” to “” or “” to select a menu.

- No images can be selected while the menu is displayed. To select images, press the “MENU” button so as to close the menu.

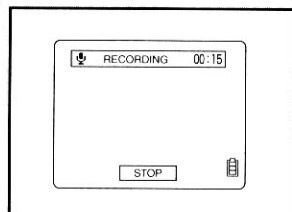


5. [RECORDING] Adding Voice Memos to an Image

2









4



Recording allows you to add audio to a recorded image (still picture) or erase added audio data.

- When the remaining capacity of the memory card is low, recording may not be carried out.

<Adding audio>

- 1 Set the mode dial to “” and turn on the camera.
- 2 Press the “MENU” button to display the menu items. And, move “” to “” or “”, select “” (RECORDING) and press “”.

[RECORDING?] appears on the LCD monitor.

- 3 Move “” to “” or “” to select the image you want to add audio to.

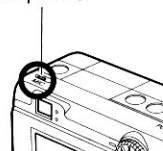
- If you do this for an image already with recorded audio, [ERASE?] are appear on the LCD monitor. Erase the audio to make a new sound recording for that image (see page P. 61).


- 4 Move “” to “” to select [EXECUTE] and press the “” button to start recording. Speak into the microphone to record a message.

The amount of the recording time (seconds) left is indicted on the LCD monitor.

- You can make a recording up to 30 seconds long.

Microphone

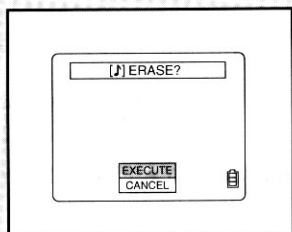


- 5 Recording stops when the “” button is pressed again.

When recording is stopped or completed, the display 2 appears on the LCD monitor.

- The recorded audio file is named as KIF-XXXX.WAV and stored in the same folder as the target image.

3



<Erasing audio>

Use this procedure to erase the audio of still pictures that contain audio.

Note that, once erased, audio cannot be restored.

- The audio of a protected image cannot be erased.

1 Set the mode dial to “▶” and turn the camera on.

2 Move the “▲” (selector lever) to “◀” or “▶” and select the image whose audio recording is to be erased .

For a still image with audio, “[J]” appears on the LCD monitor.

3 Press the “MENU” button to display the menu items. Move “▲” to “◀” or “▶”, select “[J]”(RECORDING) and press “▲”.

[ERASE?] appears on the LCD monitor.

4 Move “▲” to “▲”, select [EXECUTE] and press “▲”.

The audio is erased and [RECORDING?] appears on the LCD monitor.

5 Press the “MENU” button to return to the normal screen .

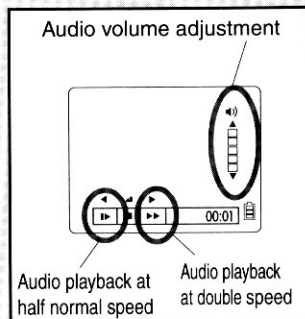
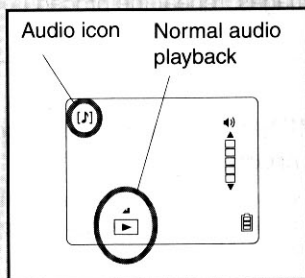
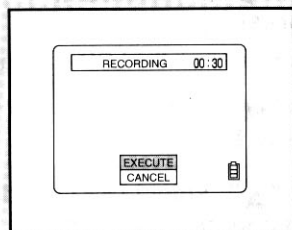
<Playing back sound>

A still image with audio is indicated as shown in the figure.

Press the “▲” to start audio playback.

- To stop playback, press the “▲” button again.
- Move “▲” to “▲” or “▼” to adjust the audio volume.
- When the “▲” is held down to “▶”, the audio is played back at double speed. Playback at normal speed resumes when the button is released.
- When the “▲” is held down to “◀”, the audio is played back at half normal speed. Playback at normal speed resumes when the button is released.

4

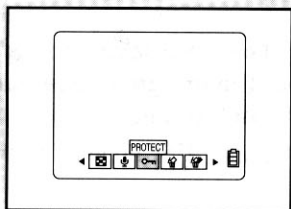


You can use this function to protect important images from accidental erasure.

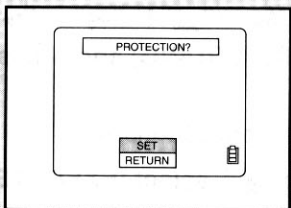
This function is particularly convenient for erasing multiple images when used together with the erase-all function. (P. 63)

- Note that, although protected images remain after using the erase-all function, the format function deletes every image on the card.

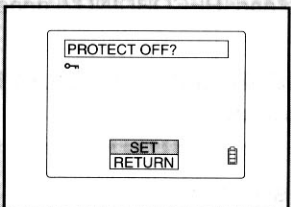
2



3



4



1 Set the mode dial to “” and turn on the camera.

2 Press the “MENU” button and move “” to “” or “”, select “” (PROTECT) and press “”.

[PROTECTION?] appears on the LCD monitor.

3 Move “” to “” or “” and select the image that is to be protected.

4 Move “” to “”, select [SET] and press “” to complete protection.

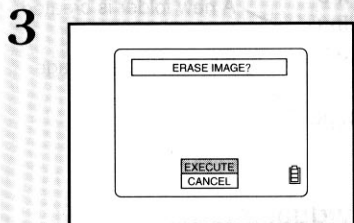
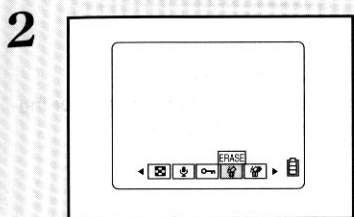
The “” icon and [PROTECT OFF?] appear on the LCD monitor.

- To unprotect the image, move “” to “”, select [RELEASE] and press “”. (The “” icon goes out.)

To protect other images, repeat the procedures in steps 3 & 4.

5 Press the “MENU” button to return to the normal screen.

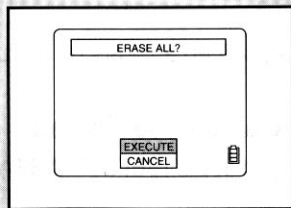
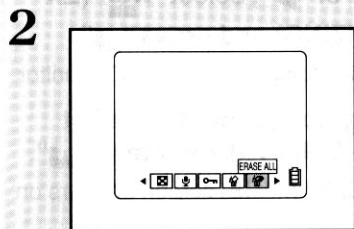
- To check a protected image after making these settings, display information (P. 58) or look for the “” icon in multiple image display (P. 59).



<Erasing individual images>

- 1 Set the mode dial to "▶" and turn the camera on.
- 2 Press the "MENU" button to display the menu items. Move the "▲" (selector lever) to "◀" or "▶", select "🗑️" (ERASE) and press "▲".
[ERASE IMAGE?] appears on the LCD monitor.
- 3 Move "▲" to "◀" or "▶" and select the image you want to erase.
- 4 Move "▲" to "▲", select [EXECUTE] and press "▲".

- When the image has been erased, the next image in the card will be displayed automatically.
- When an image with audio is erased, both the image and the audio are erased.
- Protected images cannot be erased. To erase protected images, cancel the protection (P. 62) first.



<Erasing all images>

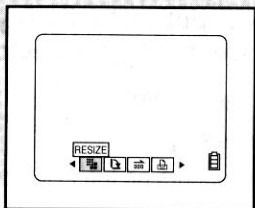
- 1 Set the mode dial to "▶" and turn the camera on.
- 2 Press the "MENU" button to display the menu items. Move the "▲" (selector lever) to "◀" or "▶", select "🗑️" (ERASE ALL) and press "▲".
[ERASE ALL?] appears on the LCD monitor.
- 3 Move "▲" to "▲", select [EXECUTE] and press "▲".

- All still pictures and movies are erased.
- When all images have been erased, [NO IMAGE] appears on the LCD monitor. If a protected image is present, that image is displayed.
- When an image with audio is erased, both the image and the audio are erased.
- Protected images cannot be erased. To erase protected images, cancel the protection (P. 62) first
- It may not be possible to erase images recorded by other cameras.

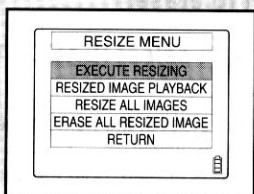
8. [RESIZE] Resizing and Trimming

Recorded images can be resized and trimmed. The original image is left intact since resized and trimmed images are saved as new images.

2



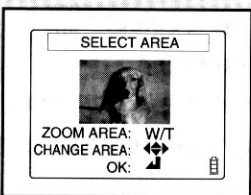
3



4

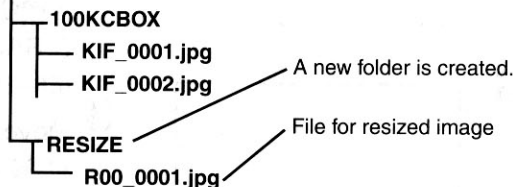


5



















- Resized images are stored as shown below.
- The images that are captured by other cameras or the Kyocera digital camera cannot be resized.

DCIM



<Resizing individual image>

- 1 Set the mode dial to “” and turn the camera on.
- 2 Press the “MENU” button to display the menu items. Move the “” (selector lever) to “” or “”, select “” (EXECUTE RESIZING) and press “”.
- 3 Move the “” to “” or “”, select [EXECUTE RESIZING] and press “”.
- 4 Move the “” to “” or “” and select the image you want to resize. Then, move the “” to “”, select [OK] and press “”.







The [RESIZE MENU] appears on the LCD monitor.

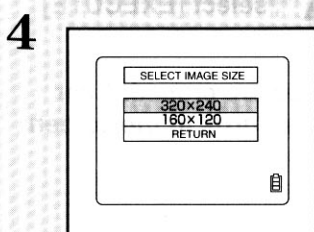
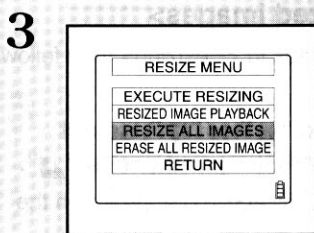
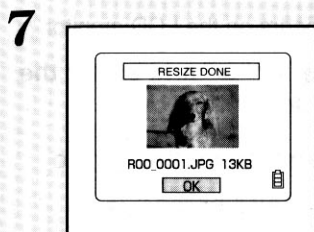
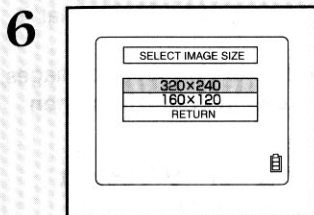
The [SELECT RESIZE IMAGE] screen appears on the LCD monitor.

The [SELECT AREA] screen appears on the LCD monitor.

5 Determine the area to be resized.

The area displayed in the [SELECT AREA] screen is resized.

Use the “T” and “W” buttons to change the zoom ratio (1x, 2x, 4x). Move the “” to “”, “”, “” or “”, select the position and press “”.



6 Move the “**▲**” to “**▲**” or “**▼**”, select an image size and press “**▶**”.

7 A new name for the resized image appears on the LCD monitor. Check the name and press “**▶**”.

For details, see the <Notes> below.

8 Press the “MENU” button to end the operation.

<Notes>

When “FILE NO. ERROR” appears on the LCD monitor, there is no recordable number in the folder for the resized images so that you cannot save the file. Erase all resized images or format the memory card. Before doing this, copy the images or resized images that you want to save into your PC.

- When there is not enough space for storing an image on the memory card, the resizing operation ends.
- 9999 resized images (from R00_0001.jpg to R00_9999.jpg) can be recorded in the folder.

<Resizing all images>

Perform the first two steps in <Resizing> then follow these steps.

3 Move the “**▶**” to “**▲**” or “**▼**”, select [RESIZE ALL IMAGES] and press “**▶**”.

The [SELECT IMAGE SIZE] screen appears on the LCD monitor.

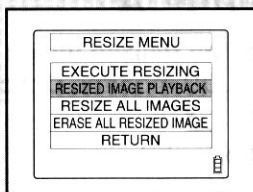
4 Move the “**▶**” to “**▲**” or “**▼**”, select an image size and press “**▶**”.

5 All images are resized. When the [FILE STORED] screen appears, press “**▶**”.

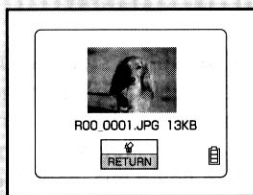
● For details, see the <Notes> above.

6 Press the “MENU” button to end the operation.

3



5



<Checking and erasing resized images>

Resized images cannot be viewed using normal playback.

Use the following procedure to view resized images.

Perform the first two steps in <Resizing> then follow these steps.

- 3 Move the "▲" to "▲" or "▼", select [RESIZED IMAGE PLAYBACK] and press "▶".

The resized image appears on the LCD monitor.

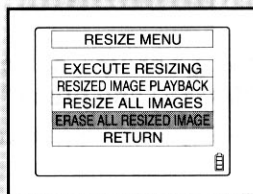
- 4 Move "▶" to "◀" or "▶" and select the normal or reverse viewing order.

- 5 To erase an image, move the "▶" to "▲", select "🗑️" and press "▶".

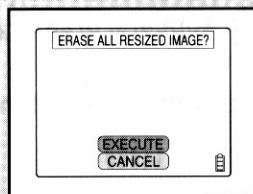
- Note that no screen for confirming the erase operation is displayed, so the image is erased when the OK button is pressed.

- 6 Press the "MENU" button to end the operation.

3



4



<Erasing all resized images>

Perform the first two steps in <Resizing> then follow these steps.

- 3 Move the "▶" to "▲" or "▼", select [RESIZE ALL IMAGES] and press "▶".

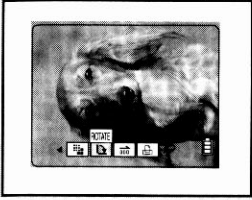
[ERASE ALL RESIZED IMAGES?] appears on the LCD monitor.

- 4 Move "▶" to "▲", select [EXECUTE] and press "▶".

- 5 All resized images are erased. After that, the camera returns to the screen in step 3.

9. [ROTATE] Rotating Images






2






You can rotate images 90° clockwise or counterclockwise.





- The protected image cannot be rotated.
- Images that are captured by other cameras or the Contax digital camera cannot be rotated.

1 Set the mode dial to “” and turn the camera on.

2 Press the MENU button to display the menu items. Move the “” to “” or “”, select “” (ROTATE) and press “”.

[ROTATE IMAGE?] appears on the LCD monitor.

3 Move the “” to “” or “” and select the image you want to rotate.

4 Move the “” to “” or “”, select [90°] and press “” button.

[90°]: Rotates images 90° counterclockwise.

[90°]: Rotates images 90° clockwise.

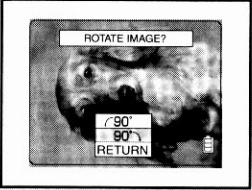
[RETURN]: Cancels the operation and the camera returns to the menu display.

5 The rotated image appears on the LCD monitor.

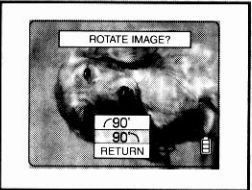
- To rotate other images, repeat steps 3 and 4.
- The rotated images cannot be stored.

6 Press the “MENU” button to end the operation.

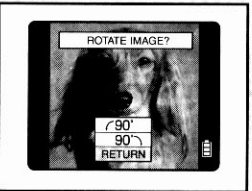
3



4

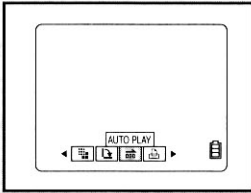


5



10. [AUTO PLAY] Playing Back Images Sequentially (📷)

2



Images can be played back automatically at set intervals.

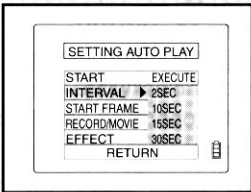
- 1 Set the mode dial to “📷” and turn the camera on.
- 2 Press the MENU button to display the menu items. Move the “⬇️” to “⬅️” or “➡️”, select “🔍” (AUTO PLAY) and press “⬇️”.

[SETTING AUTO PLAY] appears on the LCD monitor.

- 3 Move the “⬇️” to “⬆️” or “⬇️”, select [INTERVAL] and move the “⬇️” to “➡️”.

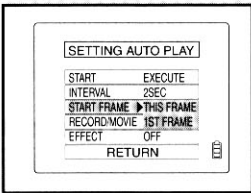
- 4 Move the “⬇️” to “⬆️” or “⬇️”, select a time interval and press “⬇️”.

4



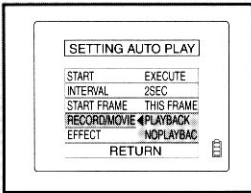
- 5 Move the “⬇️” to “⬆️” or “⬇️”, select [START FRAME] and move the “⬇️” to “➡️”.

6



- 6 Move the “⬇️” to “⬆️” or “⬇️”, select [THIS FRAME] or [FIRST FRAME] and press “⬇️”.

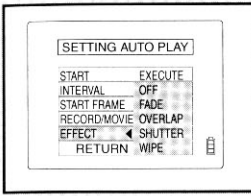
7



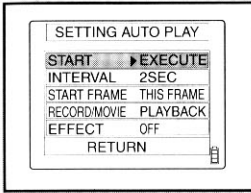
- 7 Move the “⬇️” to “⬆️” or “⬇️”, select [RECORD/MOVIE] and move the “⬇️” to “➡️”.

- 8 Move the “⬇️” to “⬆️” or “⬇️”, select [PLAYBACK] or [NOPLAYBACK] and press “⬇️”.

10



11



9 Move the “**▲**” to “**▲**” or “**▼**”, select [EFFECT] and move the “**▲**” to “**▶**”.

10 Move the “**▲**” to “**▲**” or “**▼**”, select the desired effect and press “**▲**”.

For effects, see the below frame.

11 Move the “**▲**” to “**▲**”, select [START] and move the “**▲**” to “**▶**”, start auto play.

12 To end auto play, press the “MENU” button.

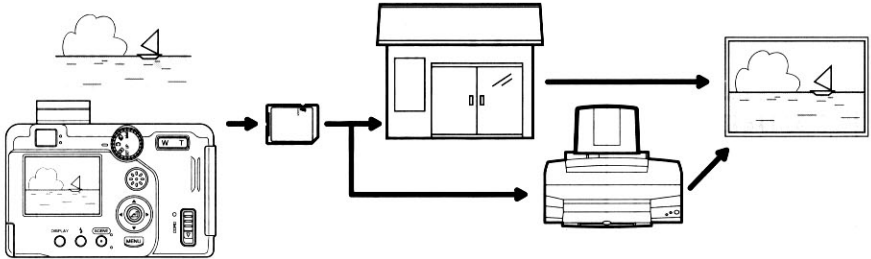
Effects

- OFF:** Does not add any of the below effects to the image.
- FADE:** Gradually darkens the image being played back until completely faded out. The next image gradually brightens until fully visible on the LCD monitor.
- OVERLAP:** Overlaps the current playback image with the next image until completely replacing the former image.
- SHUTTER:** Closes black curtains from above and below the image until the playback image disappears. The curtains open again revealing the next image.
- WIPE:** The next image replaces the current playback image as if wiping it from the LCD monitor from the left side.

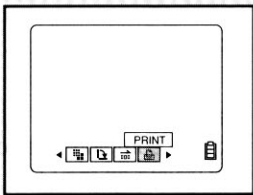
11. [PRINT] Using DPOF to Prepare for Printing

Digital Print Order Format (DPOF) is a standard for printing digital photographs on a home printer or by a commercial printing service.






It allows you to easily specify the number of prints to be made, date imprinting and so on. Before using this function, confirm that your printer or commercial photo printing service supports DPOF. When printing on your home printer, be sure to observe the operating instructions for the printer.



2

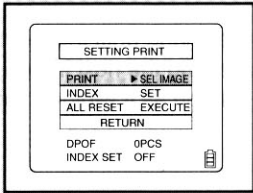


1 Set the mode dial to “” and turn the camera on.

2 Press the “MENU” button to display the menu items. Move to the “” to “” or “”, select “” (PRINT) and press “”.

The [SETTING PRINT] screen appears on the LCD monitor.

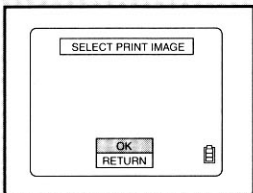
3









3 Move the “” to “” or “”, select [PRINT] and move the “” to “”.

The [SELECT PRINT IMAGE] screen appears on the LCD monitor.

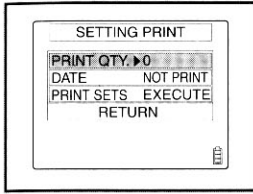
4



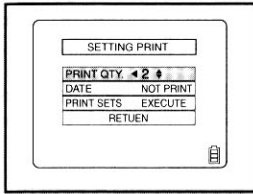
4 Move the “” to “” or “” to select the image. Then, move the “” to “”, select [OK] and press “”.

The [SETTING PRINT] screen appears on the LCD monitor.

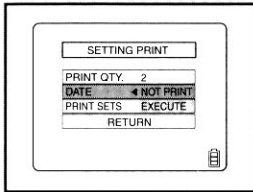
5



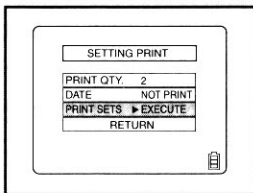
6



8



9



5 Move the “**▲**” to “**▲**” or “**▼**”, select [PRINT QTY] and move the “**▲**” to “**▶**”.

6 Move the “**▲**” to “**▲**” or “**▼**”, select the number of prints and press “**▲**”.

7 Move the “**▲**” to “**▲**” or “**▼**”, select [DATE] and move the “**▲**” to “**▶**”.

8 Move the “**▲**” to “**▲**” or “**▼**”, select [PRINT] or [NOT PRINT] and press “**▲**”.

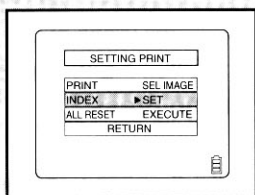
- Set the image for which [INSERT DATE] is set to [WITH DATE] so that [NOT PRINT] is set for [DATE]. If you set [PRINT] for [DATE], the date is displayed in two positions.

9 Move the “**▲**” to “**▲**” or “**▼**” to select [PRINT SETS] and move the “**▲**” to “**▶**” to confirm selection of the DPOF settings.

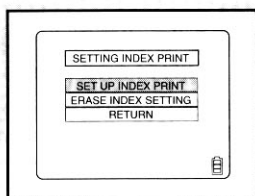
The camera returns to the [PRINT SETS] screen.

- To make DPOF settings for other images, repeat steps 3 to 9.

3



4



<Setting index printing>

This function allows you to prepare a list of the images stored on a memory card for printing.

Perform the first two steps in the section “[PRINT] Using DPOF to Prepare for Printing” (P. 70), then perform the following steps.

3 Move the “” to “” or “”, select [INDEX] and move the “” to “”.

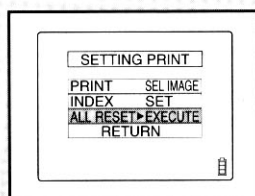
The [SETTING INDEX PRINT] screen appears on the LCD monitor.

4 Move the “” to “” or “”, select [SET UP INDEX PRINT] and press “” to complete the setup.

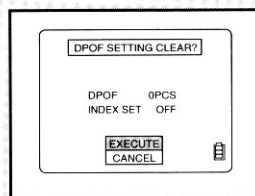
The camera returns to the [SETTING PRINT] screen.

- The images shot after setting the index printing are not set to index printing. Set the index printing again.

3



4



<Canceling all print settings>

Perform the first two steps in the section “[PRINT] Using DPOF to Prepare for Printing” (P. 70), then perform the following steps.

3 Move the “” to “” or “”, select [ALL RESET] and move the “” to “”.

The [DPOF SETTING CLEAR?] screen appears on the LCD monitor.

4 Move the “” to “”, select [EXECUTE] and press “” to complete the setup.

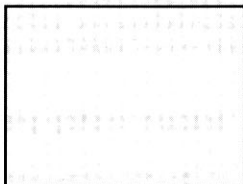
The camera returns to the [SETTING PRINT] screen.

Playing and Erasing

Playing and Erasing Movies

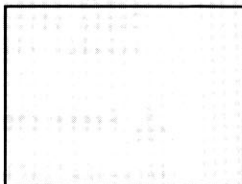
The displays on the screen in movie playback are shown below according to each pixel setting.

640 × 480



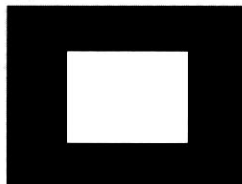
Full screen image

320 × 240



Full screen image

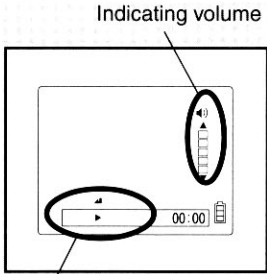
160 × 120



Half screen image

1. Playing Movies

1



Indicating operation buttons

Connect the camera to the AC adapter for long shooting sessions.


- Check that a memory card with images is inserted into the camera. Check that a memory card is inserted properly.




1 Set the mode dial to “” and turn the camera on.




The screen in the figure appears on the LCD monitor during movie playback.


2 Move the “” to “” or “” and select the image to play back.

- Use multiple playback (P. 59) to simplify selection when the card contains many images.

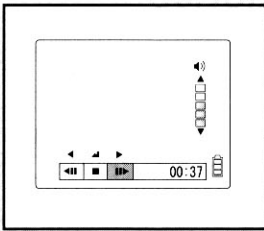
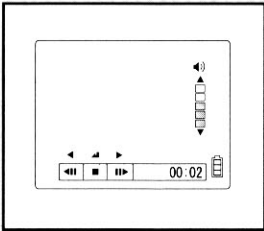
3 Press the “” to start playback and the playback screen shown in the illustration appears on the LCD monitor.

Move the “” to “” or “” to toggle frame-by-frame playback between the forward and reverse directions. When the buttons are held down more than two seconds, images are continuously flipped through frame-by-frame either in forward or reverse direction.

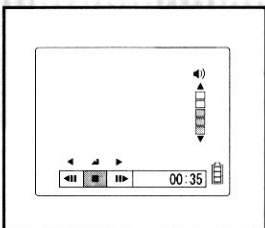
Move the “” to “” or “” during playback to adjust the audio volume.

- Pressing the “” during frame-by-frame playback either in forward or reverse direction starts movie playback.
- Audio is muted during frame-by-frame playback or reversal frame-by-frame playback.
- The display with the operation button and audio volume indications can be erased. The LCD monitor is switched over by pressing the “DISPLAY” button.
Display with the operation buttons and audio volume indication → Image only → INFORMATION display ON.




3



4



4 Press the “” button to stop playback.

Move the “” to “” or “” and select the next image to play back.

2. Other Functions

In movie mode, the following functions can be used. Their operation methods are the same as those for still pictures. See the reference pages.

①	Displaying Exposure Information (Information Display)	P.58
②	Multiple Image Display (Index Display)	P.59
③	[PROTECT] Preventing Accidental Erasure	P.62
④	Erasing Images	P.63
⑤	[AUTO PLAY] Playing Back Images Sequentially	P.68

A decorative background consisting of several overlapping circles of varying shades of gray, arranged in a roughly horizontal line across the middle of the page.

How to Use the Camera Setup Functions

1. Setup Function Lists

As shown below, the SET UP 1/3 and 2/3 screens have 6 functions each, while the SET UP 3/3 screen has 4. Thus, the setup function provides a total of 16 functions. The menu functions are in their default settings when the camera is purchased. (In this mode, the "Default setting" column is used for explanation)
To change the SET UP menu settings, see "3. How to Change Setup Settings" (P. 82).

<SET UP (1/3)>

Menu Content Item	Default setting	Setting				
AF MODE	SAF	CAF				
BRIGHT CNTRL	STANDARD	+2	+1	-1	-2	
DATE	2003.01.01	—	—	—	—	—
INSERT DATE	NO DATE	WITH DATE				
FORMAT	—					
POWER SAVE	3MIN.	1MIN.	6MIN.	NO PWR OFF		

<SET UP (2/3)>

Menu Content Item	Default setting	Setting				
MODE LOCK	OFF	ON				
BEEP	+2	OFF	+1	+3		
SHUTTER VOL	+2	OFF	+1	+3		
COLOR SELECT	YELLOW	RED	PURPLE	BLUE		
START SCREEN	KYOCERA screen	User setting	OFF			
AUTO PLAYBACK	2 SEC	4 SEC	OFF			

<SET UP (3/3)>

Menu Content Item	Default setting	Setting				
LANGUAGE	ENGLISH	JAPANESE	FRANÇAIS	DEUTSCH	ESPAÑOL	中文
VIDEO OUT	NTSC	PAL				
FILE NO.	—					
MODE RESET	—					

2. Setup Menu Content

<SET UP (1/3)>

1. AF MODE

This mode is for automatically focusing on images.

SAF: (Single Auto Focus) (default setting) This mode is suited for normal picture-taking.

Pressing the shutter release button halfway down focuses on the image. Once the image is within focus, the standby LED (Green) lights and the focus and exposure lock. At this point, press the shutter release button all the way down to take the picture.

CAF: (Continuous Auto Focus): This mode is suited for photographing moving objects.

With the camera turned on, the image is continuously shot within focus.

Confirm the standby LED is lit and press the shutter release button all the way down.

- The auto focus feature may not be able to follow fast moving objects.
- The lens is driven to bring the subject in focus so that the batteries are consumed sooner than usual.

2. BRIGHT CNTRL (LCD brightness control)

The LCD monitor can be adjusted to one of five brightness levels.

Select + to make the LCD monitor brighter and - to make it darker.

3. DATE

This function sets camera date and time. For details on settings, see P.18.

4. Insert date

You can determine whether the "DATE" will be imprinted on the recorded image or not.

[WITH DATE]:

The date is imprinted on the recorded image. (See P. 19.)

- The date is imprinted at the bottom right corner of the image. When the background of the imprinting position is bright such as white or yellow, some figures may be difficult to read.
- A date imprint once made cannot be erased.

[NO DATE]: (Default setting)

No date is imprinted on the recorded image.

5. FORMAT (Memory card initialization)

This function erases all images and audio recorded on the memory card. Use this function with care since even protected images are erased.

* It is recommended to format the memory card in this camera in order to attain full performance.

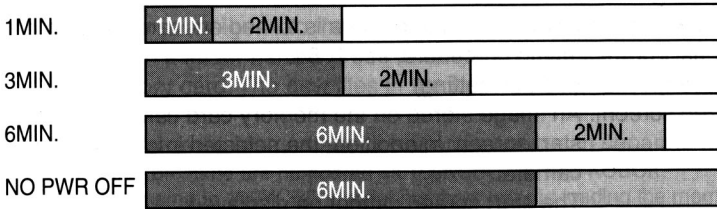
- For details on "FORMAT," see page P.83.




6. POWER SAVE

The time until the camera is automatically turned off when it is left on without any operation. This function prevents battery depletion if you forget to turn the camera off.

Select one of the following: ① NO PWR OFF ② 1MIN. ③ 3MIN. ④ 6MIN.

- The default setting is 3MIN. When ① NO PWR OFF is selected, the camera goes into standby mode but is not turned off automatically. Do not forget to turn off the power when not using the camera.



-  Power on and camera in ready but inactive state.
-  Sleep mode; camera operation stops with lens in extended position, but function can be restored by pressing shutter button halfway, or by pressing other function buttons.
-  Power OFF.

<SET UP (2/3)>

7. MODE LOCK

The mode lock saves settings in the flash, scene, or photography modes even after the camera is turned off. (See P.103.)

- [ON]:** Settings are saved even after the camera is turned off.
- [OFF]:**(Default setting) Initial settings are restored the next time the camera is turned on.

8. BEEP

The beep can be adjusted.

- [+3]:** High
- [+2]:** Medium (Default setting)
- [+1]:** Low
- [OFF]:** The beep is turned off. (The startup audio is turned off, too)

9. SHUTTER VOL

Adjusts the shutter volume.

- [+3]:** High
- [+2]:** Medium (Default setting)
- [+1]:** Low
- [OFF]:** The shutter sound is turned off.

10. COLOR SELECT

The color of the cursor in the mode menus and in menu selections can be changed.

- [YELLOW]:** (Default setting)
- [RED]:**
- [PURPLE]:**
- [BLUE]:**

11. START SCREEN

The start screen, which is displayed when the camera is turned on, can be set to one of the following three types. For the setting procedure, see P. 84.

[KYOCERA screen]: (Default setting)

[User customized screen]: An image stored on the memory card can be used as the start screen. In addition, the selected image is stored in the camera.

[OFF screen]: The start screen cannot be displayed.

12. AUTO PLAYBACK

The camera can be set up so that playback images are automatically displayed as they are taken. (still images only)

[OFF]: Not automatically displayed.

[2 SEC]: (Default setting) An image is automatically displayed for 2 seconds as soon as it is taken.

[4 SEC]: An image is automatically displayed for 4 seconds as soon as it is taken.

- In "📹" (continuous recording), an auto playback image will be displayed only for the time period before the next image is shot. Only the last image is displayed for the above time.
- Auto playback display ends by pressing the shutter release button halfway down.

<SET UP (3/3)>

13. LANGUAGE

You can select one of the following six languages as the language used on the LCD monitor.

① JAPANESE ② ENGLISH ③ FRANÇAIS ④ DEUTSCH ⑤ ESPANÖL ⑥ 中文

14. VIDEO OUT

The output of the camera can be set to the NTSC or PAL system. The TV color system varies by country. When you are traveling, set the camera to the TV system of the country you are in.

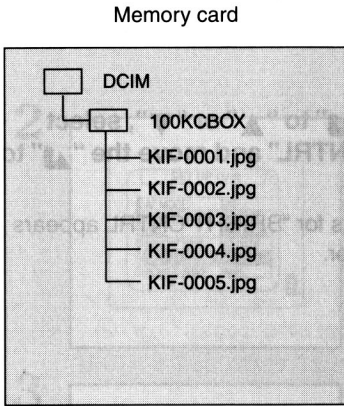
- The NTSC system is used in Japan and America.

15. FILE NO.

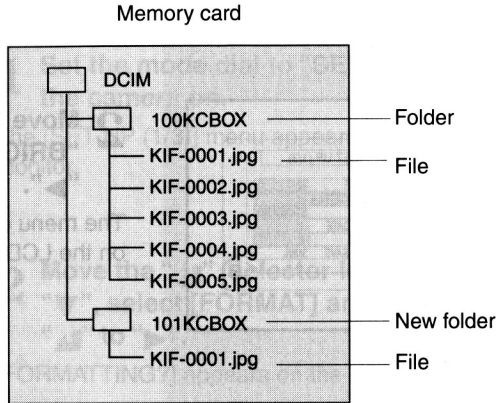
A sequential number is assigned to the file names of new images as they are created, and the files are stored in a folder named [100KCBOX]. FILE NO. allows you to create new folders on the memory card. The new files in the folder are assigned sequential numbers starting from 0001.

This makes it easy to group image data for separate scenes in separate folders.

- The folders that can be made are numbered as 100KCBOX to 999 KCBOX.
- To return the folder name to 100KCBOX, reset numbers without loading the memory card. The folder name is set to 100KCBOX and the file number is set to KIF-0001.jpg.



Before FILE NO.



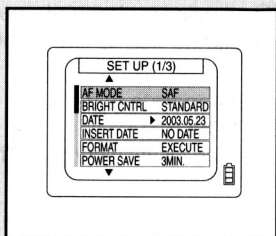
After FILE NO.

16. MODE RESET

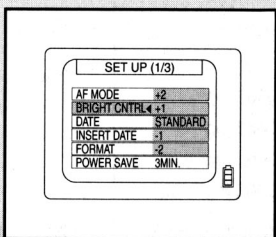
Resets all camera settings except the DATE, VIDEO OUT and LANGUAGE [exposure mode and SET UP mode] to their factory defaults. (For details, see P.103)

3. How to Change Setup Settings

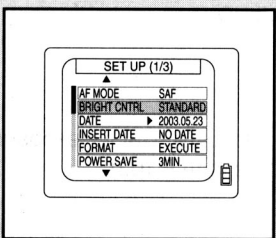
1



2



3



Example: To change [BRIGHT CNTRL] to "+2"

1 Set the mode dial to "SETUP" and turn the camera on.

The [SET UP (1/3)] menu appears on the LCD monitor.

The "SET UP" mode consists of three screens (1/3 to 3/3). Move the "▲" to "▲" or "▼" several times to change the screen on the LCD monitor.

2 Move the "▲" to "▲" or "▼", select "BRIGHT CNTRL" and move the "▲" to "▲".

The menu contents for "BRIGHT CNTRL" appears on the LCD monitor.

3 Move the "▲" to "▲" or "▼", select "+2" and press "▲".

The camera returns to the screen in step 1. This completes setting.

- For information on how to set up [DATE], see P.18.
- For information on how to set up [START SCREEN], see P.84.
- For information on how to set up [FORMAT], see P.83.

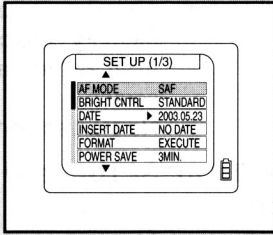
4. "FORMAT" Initializing the memory card

Use **FORMAT** to initialize a new memory card or to erase all data on a card.

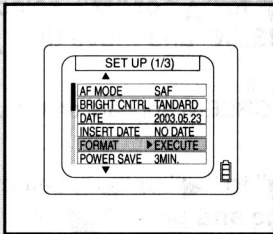
* It is recommended to format the memory card in this camera in order to attain full performance.

- Format erases all data and folders on the memory card. Use this function with care since also protected folders are erased.

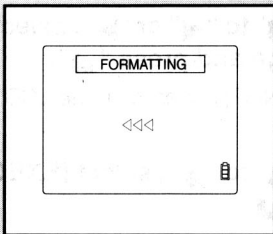
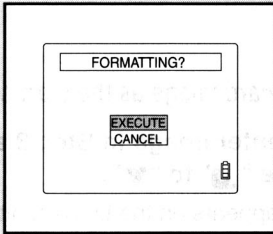
1



2



3



1 Set the mode dial to "SETUP" and turn the camera on.

The [SET UP (1/3)] menu appears on the LCD monitor.

2 Move the "▲" (selector lever) to "▲" or "▼", select [FORMAT] and move the "▶" to "▶".

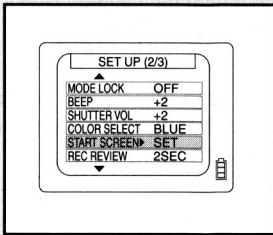
[FORMATTING?] appears on the LCD monitor.

3 Move the "▶" to "▶", select [EXECUTE] and press "▶" to start formatting.

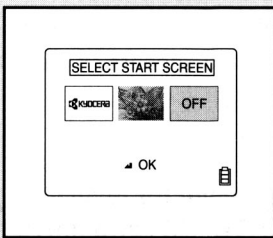
4 When formatting is completed, the original screen appears on the LCD monitor.

5. Setting a Start Screen

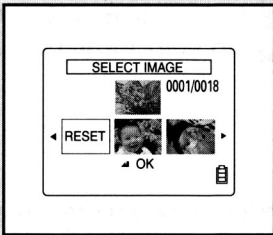
2



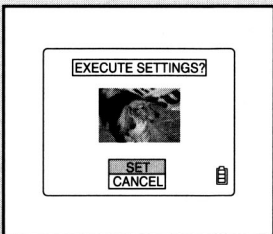
3



4



5



You can select one of the following three screens as the start screen.

- ① KYOCERA screen : (Factory default)
- ② User customized screen : An image stored on a memory card can be used as the start screen.
- ③ OFF screen : No start screen

1 Set the mode dial to “SETUP” and turn the camera on.

The [SET UP (1/3)] menu appears on the LCD monitor.

2 Move the “▲” to “▲” or “▼”, select “START SCREEN” and move the “▶” to “▶”.

[SELECT START SCREEN] appears on the LCD monitor.

3 Move the “▶” to “◀” or “▶”, select the desired image and press “▶” to complete the start screen setting operation.

<Using a memory card image as the start screen>

4 Select the center image in Step 3 above and move the “▶” to “▼”.

[SELECT IMAGE] appears on the LCD monitor and the memory card images are displayed.

5 Move the “▶” to “◀” or “▶”, select the desired image and press “▶”.

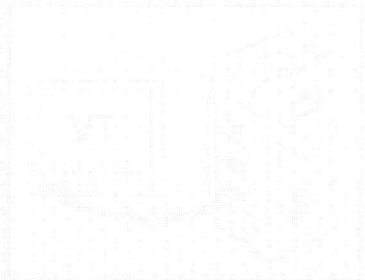
[EXECUTE SETTING?] appears on the LCD monitor.

6 Move the “▶” to “▲”, select [EXECUTE] and press “▶”.

The camera returns to the [SELECT START SCREEN] and the desired image is displayed at the center.
The setting is completed.

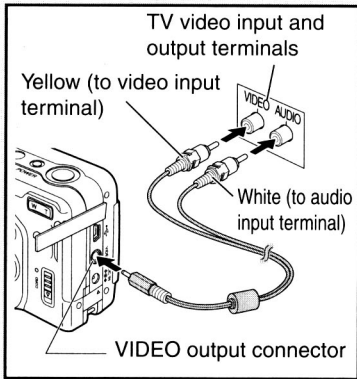
- The selected image is stored in the camera.
- Selecting [RESET] in Step 4 above cancels the selected image from the user customized screen.

Connecting to Other Devices

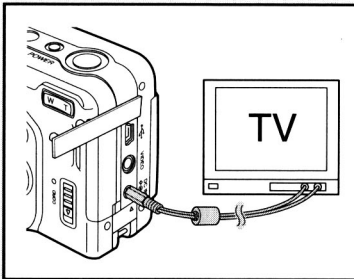


1. Viewing Images on a TV

1



2



You can play back recorded images on a TV at home or your travel destination.

1 Connect the camera to the TV with the included video cable.

- Make sure that both the camera and the TV are turned off before connecting them.
- Connect the AC adapter to the camera for long viewing.

2 Turn on the TV and the camera and set the mode dial on the camera to “▶” to view playback images on the TV.

This connection allows you to shoot and play back images as well as use the SETUP functions.

- Set the TV to which the video cable is connected to video input mode.
- The camera LCD monitor is off while the video cable is connected.
- When the image is displayed on a TV monitor, some parts of image may not be visible.

The video output of the camera can be set to the NTSC or PAL system. The TV color system varies by country. When you are traveling, set the camera to the TV system of the country you are in. For details on settings, see page P.77.

2. Connecting to a PC

Images taken by this camera can be viewed, copied, manipulated and attached to E-mail on your PC. First find out what operating system your PC is using before reading the following instructions.

<1.Computer Operating Environment and Connection Procedure>

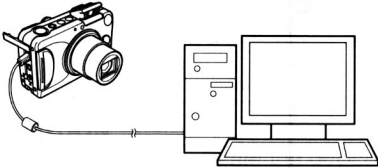
- This camera does not support MacOS 8.6.

* Operation is not guaranteed with OSs other than the below as well as with upgrades of the above OSs.

For Windows Me/2000/XP^{*1}, or Mac OS 9.0 to 9.2/10.0 to 10.2^{*2}users

*1 Windows2000 is limited to Professional. Windows XP is limited to HomeEdition and Professional.

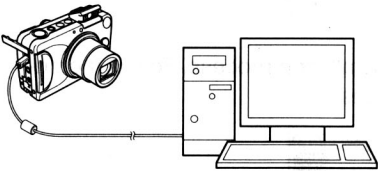
*2 Excluding Mac OS X Server.



Connect the camera to a PC.

- It is not necessary to install the USB driver.

For Windows 98/98SE users



Install USB driver

↓
Connect the camera to a PC

- If the operating system you are using is Windows 98, Windows 98SE, install the USB driver. The USB driver software is contained on the CD-ROM included with the camera.

CAUTION

Connect the USB cable after installing the USB driver. The USB driver cannot be correctly installed if the USB cable is connected. If the USB cable was connected during the install process, remove the device as described on page P.98.

Also, the hardware listed below is necessary no matter what type of PC is used.

- The PC must provide a USB terminal as a standard feature, to allow camera connection.
- A CD-ROM drive is required to install the included software. (Windows 98/98SE)

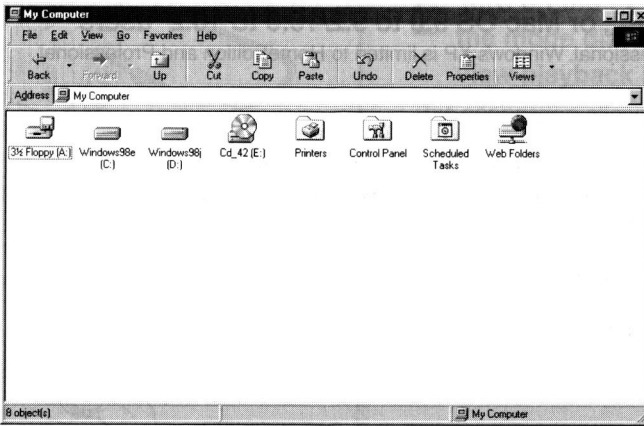
<2. Connecting the USB Cable to the PC>

The USB driver software is contained on the CD-ROM (CD-42) included with the camera.

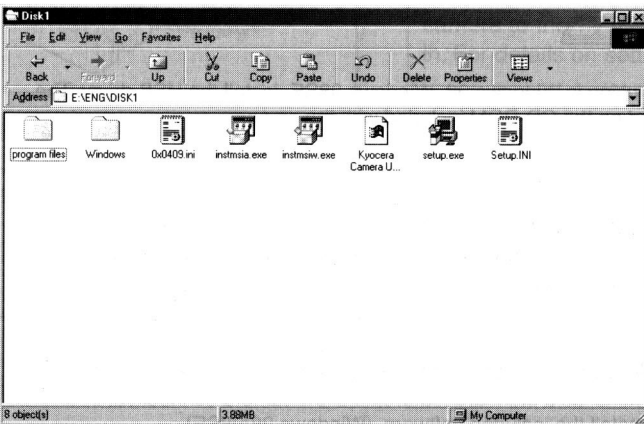
- 1 Turn on the PC.
- 2 Insert the included CD-ROM (CD-42) in the CD-ROM drive of the PC.

[Windows 98/98SE]

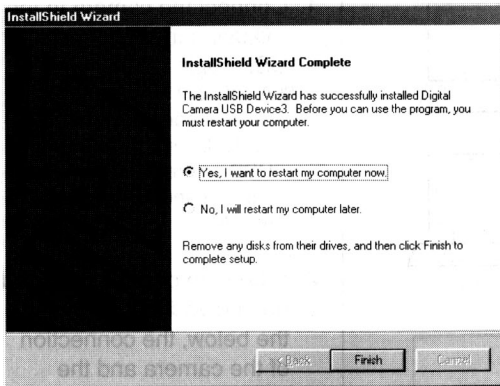
- 1 Double-click on the [Cd_42(D)] from [My Computer] to open the CD-ROM.
 - Depending on the PC, a different letter than (D:) may appear.



- 2 Double-click on the [Setup (.exe)] file to start the installation process. Follow the on-screen instructions to complete the installation process.

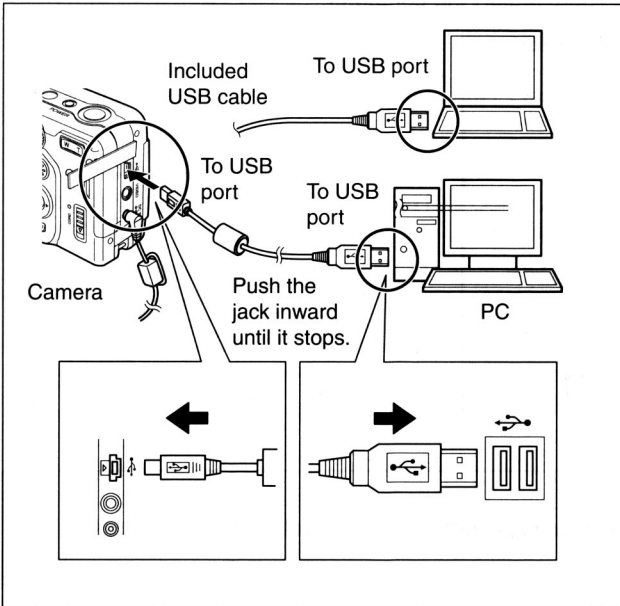


- 3 When the “InstallShield Wizard has been completed” message is displayed, click “Finish” to end the installation process. Then, restart the computer.

**CAUTION**

If installation fails, delete the device as explained in “Device Delete and Measures to Be Taken” on page 98.

<3. Connecting the USB Cable to the PC>

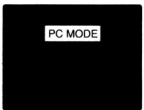


1. Connect the camera to the PC using the included USB cable

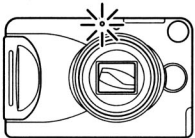
● A different size connector is used at each end of a USB cable. Connect the small USB connector to the camera and the large one to the PC.

2. When the camera is turned on and you can confirm the below, the connection of the camera and the USB cable is completed.

Camera status after connecting the USB cable

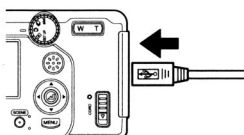


[PC MODE] appears on the LCD monitor of the camera.



The self-timer LED flashes at this time.

CAUTION



When [PC MODE] appears on the LCD monitor of the camera but a [Removable Disk] or [Untitled] icon does not appear on the PC, check if the cable is properly connected or if a memory card is loaded in the camera.

PC status after connecting the USB cable

For Windows: A new [Removable Disk] icon appears in [My Computer].



- The letter indicated in the parentheses varies according to your PC environment.
- If you are Windows XP user, the window below appears. (When any image is stored in the memory card)



For Macintosh:[Untitled] icon appears on the desktop. (When a memory card is loaded in the camera)

For OS 10.0 to 10.2, [NO_NAME] appears.

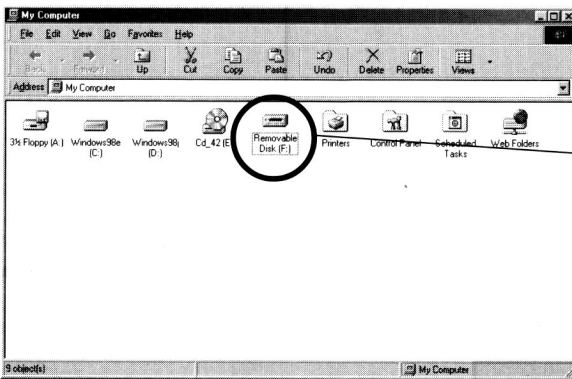


<4. Viewing Images on a PC>

- The software required for viewing images is installed in the PC. (QuickTime4.1 or later must be installed for viewing movies.)
- Copy a movie recorded with high pixel counts and fps once into your PC, and play back the copied images. If the movie in the memory card inserted in the camera is played back on the PC, the data transmission speed might be slow and might not be played back smoothly.

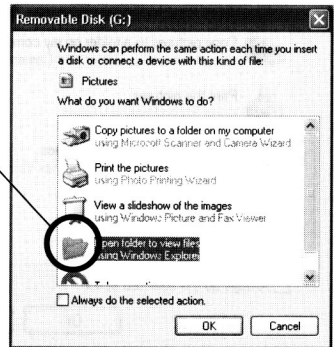
For Windows

- 1 A new [Removable Disk] icon appears in [My Computer]. Double-click on the icon to open it.



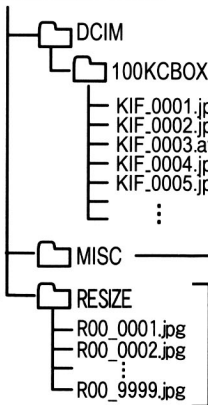
Double-click here.

- The letter indicated in the parentheses varies according to your PC environment.
- If you are Windows XP user, the window below appears.



If you select this item, the memory card contents appear.

Removable Disk



Still image/movie
You cannot create two files with the same name. When an image is erased, the file name is not reused.

This folder is created as specified by the print (DPOF) setting. (P.70)

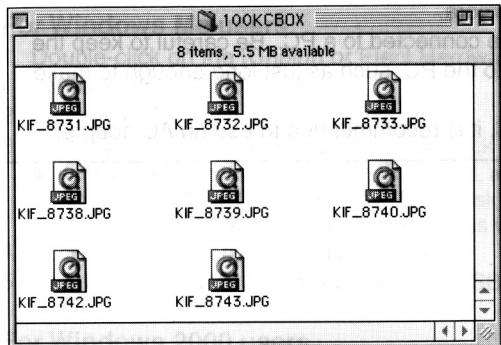
Resized images are stored here.

- 2 Open the [100KCBOX] or [RESIZE] folder in [DCIM], select the image file in the folder you want to view and double-click on it.

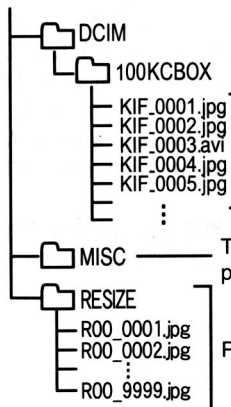
- The "100" in the folder name [100KCBOX] can have any numerical value between 100 and 999. →FILE NO. P.81

[Macintosh]

1 An [Untitled] icon appears on the desktop. Double-click here to open the window.



Untitled Folder



Still image/movie

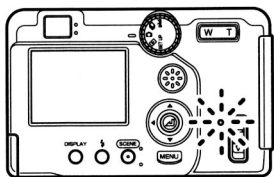
You cannot create two files with the same name. When an image is erased, the file name is not reused.

This folder is created as specified by the print (DPOF) setting. (P.70)

Resized images are stored here.

2 Open the [100KCBOX] or [RESIZE] folder in [DCIM], select the image file in the folder you want to view and double-click on it.

- The "100" in the folder name [100KCBOX] can have any numerical value between 100 and 999. →FILE NO. P.81



The card access LED flashes when images are viewed or copied on a PC.

- Do not disconnect the USB cable or turn off the PC when the card access LED is flashing. Failure to do so may damage image data.

CAUTION

- If an image is opened on a PC and manipulated such as being rotated, that image can no longer be played back on the camera.
 - The camera's battery is consumed while connected to a PC. Be careful to keep the camera connected as little as possible to the PC, such as just long enough to make a copy of images.
- * For extended use in connection with a PC, it is recommended to use an AC adapter.

<5.Disconnecting the USB cable>

Disconnect the USB cable from the PC as follows.

For Windows Me users

- 1 Double-click on the [Unplug or Eject Hardware] icon in the task bar in the lower right corner of the desktop.
- 2 Select [USB Disk] and click on [Stop].
- 3 Select [Kyocera Finecam S5R E:]* and click on [OK].
 - If [Kyocera Finecam S5R E:] is not displayed, a different device is selected. Click on [Cancel] to return to step 2 and select the other [USB Disk].
 - * The letter in [Kyocera Finecam S5R E:] varies with your PC environment.
- 4 Click on [OK] when a message appears.
- 5 Turn the camera off and disconnect the USB cable from the PC and the camera.

For Windows 2000 users

- 1 Double-click on the [Unplug or Eject Hardware] icon in the task bar in the lower right corner of the desktop.
- 2 Select [USB Mass Storage Device] and click on [Stop]
- 3 Select [Kyocera Finecam S5R USB device]* and click on [OK].
 - If [Kyocera Finecam S5R USB device]* is not displayed, a different device is selected. Click on [Cancel] to return to step 2 and select [USB Mass Storage Device].
- 4 When the message [Removing Safely] appears, click on [OK].
- 5 Turns the camera off and disconnect the USB cable from the PC and the camera.

For Windows 98/98SE users

Turn off the camera and disconnect the USB cable.

For Windows XP users

- 1 Double-click on the [Safe Removal of Hardware] icon in the task bar in the lower right corner of the desktop.
- 2 Select [USB Mass Storage Device] and click on [Stop].
- 3 Select [Kyocera Finecam S5R USB device]* and click [OK].
 - If [Kyocera Finecam S5R USB device] is not displayed, a different device is selected. Click the [Cancel] to return to step 2 and select [USB Mass Storage Device].
- 4 A pop-up menu with [Removing Safely] appears from [Safe Removal of Hardware] icon in the task bar in the lower right corner of the desktop, therefore click on [Close] in the [Safe Removal of Hardware] dialog box.
- 5 Turn the camera off and disconnect the USB cable from the PC and the camera.

[Mac OS]

Drag the [Untitled] folder on the desktop into the trash. Disconnect the USB cable when the [Removing Safely] message appears or the [Untitled] icon is no longer seen.

Cautions to be taken when you connect the camera to your PC

- When the PC is returned from the Suspend/Resume function or sleep function, the communication state may not be restored.
- When you process the image, i.e., resize or rotate the image, copy the image in your PC before processing and store the original image file.
If you process an image stored in the memory card directly, you cannot view the image from the camera.
- **Do not format the memory card using the PC. If you do, the memory card could be damaged and you would not be able to use it in this camera.**
- Do not erase the images in the memory card or move the images directly to the PC. To erase the images in the memory card, use the functions of the camera.

<6. Driver Delete and Measures to Be Taken>

If the driver software is not installed properly, the PC cannot recognize the camera. In such a case, delete the driver software according to the following procedure. After that, reinstall the driver software following the procedure described in the instruction manual for the USB driver.

If the operating system you are using is Windows 98 or Windows 98SE:

1. Turn the PC on and start up Windows.
2. Connect the camera USB terminal to the USB terminal on the PC using the included USB cable.
3. Load a memory card in the camera, connect the AC adapter to the camera and turn it on.
4. Open the [Device Manager] on the PC.
 - ① Right-click on [MY Computer] and select [Properties].
 - ② Click on the [Device Manager] tab in the [System Properties] window.
5. Select [Other Devices] and click on [Remove] for the icon with the question mark [Unknown Device].
6. When a screen for confirming device deletion appears, click on [OK].
7. Turn off the camera off before disconnecting the USB cable, and restart the PC.

<7. If the driver software becomes unnecessary>

If the driver software becomes unnecessary, uninstall the driver software according to the following procedure:

If the operating system you are using is Windows 98 or Windows 98SE:

1. Double-click on the [MyComputer] icon.
2. Double-click on the [Control Panel] icon.
3. Double-click on the [Add/Remove Programs] icon to select [Digital Camera USB Device 3].
4. Click on "Add/Remove" and the "Uninstall Program?" appears. Click on "Yes (Y)." The driver software is now removed.

Other Information


1. Troubleshooting

If you suspect a malfunction, please check the following troubleshooting tips before sending your camera for professional service.

Symptom	Probable Cause	Remedy	Page
Nothing appears on the LCD monitor.	The batteries are exhausted or the lithium-ion battery pack has not been installed.	Install the lithium-ion battery pack in the camera and charge it.	16
	The POWER SAVE function has turned off the power.	Press the POWER button to turn the power on.	—
The LCD monitor is off.	The POWER SAVE function may cause the camera to enter the sleep mode when it is inactive for a preset period of time.	Press the shutter button halfway, or press any other function button to return the camera to the normal operating condition. Since camera response differs depending on the setting of the POWER SAVE function, see P.78 for details.	78
	The video cable is connected to the camera.	Disconnect the video cable.	86
	The LCD monitor is turned off.	Press the DISPLAY button to turn the LCD monitor on.	23
	A strong magnet or other magnetic source is located too near to the camera.	Move the camera away from the magnet or electromagnetic field.	—
The remaining exposure counter does not change even though an image was recorded.	The file size of the recorded image was very small.	This depends on the image quality setting and condition of the subject. This is not a malfunction.	—
No images appear on the TV monitor.	The video output does not match the TV.	Adjust video output to the TV.	80
The image cannot be erased. The "⓪" icon is displayed.	The image is protected.	Cancel protection.	62
The image cannot be erased.	The image data was recorded on a different camera.	This image cannot be erased by this camera. You can use FORMAT to erase it, but then all images will be erased.	83
The remaining exposures counter does not change even though an image was erased.	The file size of the erased image was very small.	This depends on the image quality setting and condition of the subject. This is not a malfunction.	—

Symptom	Probable Cause	Remedy	Page
The camera cannot be charged.	The lithium-ion battery pack has not been installed.	Install the lithium-ion battery pack in the camera.	16
	The lithium-ion battery pack has been installed with the polarities reversed.	Reinstall the battery pack properly.	16
	The AC adapter is not correctly connected.	Reconnect the AC adapter to the camera or plug-in socket.	–
The camera cannot be charged or charging stops before being completed. The caution LED flashes slowly.	The ambient temperature is too high or too low causing the camera's protection circuits to terminate charging.	Charge the camera at temperatures between +10°C to 30°C (The camera can still be charged at temperatures between +5°C and +40°C, but charging takes somewhat longer.)	–
The camera becomes hot.	The LCD monitor consumes a fair amount of power and becomes hot when used for a longer time.	This is not a malfunction, but allow the camera to rest when it becomes hot.	–
The caution LED flashes slowly.	The flash is charging.	Allow the flash to complete charging before pressing the shutter release button.	14
The caution LED lights/flashes rapidly.	Camera shake warning. The shutter speed is too slow.	Place the camera on a tripod.	14
The lens cannot focus on the subject. The standby LED flashes. The in-focus indicator flashes.	The subject is difficult to focus on.	Focus on a part of the subject that makes focusing easier, lock focus, recompose the picture and shoot.	30
Images cannot be rotated, DPOF cannot be set and images cannot be protected.	The SD memory card is write-protected.	Cancel SD memory card write-protection, then try again	17

Messages and remedies

Message	Probable Cause	Remedy	Page
"MEMORY CARD FULL"	The memory card has run out of free space.	Insert a new memory card or erase no longer needed images. Or, try using a lower resolution.	63
"NO CARD"	No memory card is loaded.	Insert a memory card.	17
"WRITE PROTECT"	The write protect switch on the SD memory card is engaged.	Cancel SD memory card write-protection or insert a different card.	17
"CARD ERROR" or "UNSUPPORTED FORMAT"	This memory card was formatted on a different camera.	Format the card.	83
	This memory card contains a non-compatible format.	Format the card or insert a different card.	83
	The card is not correctly loaded.	Insert the card correctly.	17
"FILE NO. ERROR" in resizing	There is no recordable number in folder for the resized images.	Erase all resized images or format the memory card. Before doing this, copy the images or resized images that you want to save into your PC.	66
"NO IMAGE"	The memory card is empty.	Insert a card with image data.	–
"PLAYBACK NOT POSSIBLE"	The memory card contains image data of a non-compatible file format.	Format the card or insert a different card.	83
"COVER OPENED"	The memory card door is open.	Close the memory card door.	17
"LOW BATTERY"	Batteries are exhausted.	Charge the battery pack or use the AC adapter.	16
 "CLOSE"	The Flash is closed.	Make sure that you don't push the flash down.	–

2. Modes and Function Settings

List of menu settings during shooting, when the camera is turned off and when the mode is reset

Mode	MENU	Camera turned off	MODE RESET (DEFAULT)
	FLASH MODE	MODE LOCK ON	AUTO
	FLASH MODE	MODE LOCK ON	FLASH OFF
	SCENE MODE	MODE LOCK ON	STANDARD
	SELF-TIMER	DEFAULT (OFF)	OFF
	PIXELS	Setting persists	2650 x 1920
	PIXELS	Setting persists	320 x 240
	QUALITY	Setting persists	Normal
	fps (Frames/Seconds)	Setting persists	30 fps
	EXP COMP	MODE LOCK ON	±0
	WHITE BALANCE	MODE LOCK ON	AUTO
	Details _ COLOR MODE	DEFAULT (Color)	Color
	Details _AUDIO	Setting persists	ON
	Details _ CHROMA	Setting persists	STANDARD
	Details _ SHARPNESS	Setting persists	STANDARD
	Details _ WB PRESET	Setting persists	Not reset
	Details _ AE MODE	Setting persists	Program
	Details _ FOCUSING	Setting persists	SPOT AF
	Details _ LONG EXP.	DEFAULT (OFF)	OFF
	Details _ ISO	Setting persists	AUTO
	Details _ METERING	Setting persists	EVALUATION
	Details _ DIGITAL ZOOM	Setting persists	ON
"SET UP 1/3 to 3/3"	AF MODE	Setting persists	SAF
	LCD BRIGHT	Setting persists	STANDARD
	DATE	Setting persists	Not reset
	INSERT DATE	Setting persists	OFF
	FORMAT	-	-
	POWER SAVE	Setting persists	3 MIN
	MODE LOCK	Setting persists	OFF
	BEEP	Setting persists	+2
	SHUTTER VOL	Setting persists	+2
	COLOR SELECT	Setting persists	YELLOW
	START SCREEN	Setting persists	KYOCERA screen
	AUTO PLAYBACK	Setting persists	2 SEC
	LANGUAGE	Setting persists	Not reset
	VIDEO OUT	Setting persists	Not reset
	FILE NO.	-	-
MODE RESET	-	-	

MODE LOCK ON: Normally the settings will return the defaults when the camera is turned off. However, if you set the mode lock in Set Up mode to ON, the camera retains settings even if you turn the camera off.

3. Main Specifications

- Type:** Digital still camera with record, playback and erase functions
- Recording media:** SD or MMC card
- Image Format:** Complies with JPEG standard (Exif ver2.2), supports DCF standard (Design rule for Camera File system)^{Note 1}, supports DPOF^{NOTE 2}
- Effective pixels:** 5 million pixels
- Image sensor:** 1/1.8 square-pixel primary color filter and interlace readout system CCD (total of 5.25 million pixels)
- Number of recorded pixels (Still image):**
2560 × 1920, 1600 × 1200, 1280 × 960, 640 × 480
- Number of recorded pixels (Movie):**
640 × 480, 320 × 240, 160 × 120
- Image quality:** 2 levels of F (Fine) and N (Normal)
- Movie frame rate:** 15 fps, 30 fps
- Lens:** KYOCERA zoom lens (7 elements in 6 groups), f=7.3mm to 21.9mm (equivalent to 35mm - 105mm in the 35mm format) 3x zoom lens, F2.8 to 4.8
- Digital zoom:** Digital zoom settings available (5 levels of 1.3x, 1.6x, 2x, 3x, 3.7x)
- Focal point adjustment:** Video feedback auto focus (Changeable between WIDE AF and SPOT AF) and manual focus
- Shooting range:** AF: Distance from the CCD: Approx. 60cm*1 to , Macro: Approx. 17cm to 60 cm.
* (In telephoto or wide mode): Approx. 0.55 m to from the lens front surface, Macro: Approx. 12 cm to 55 cm
MF: 0.6, 1, (1.5), (2), 3, 5,
- Exposure control:**
- **Control system:** Programmed AE, aperture-priority AE
 - **Metering system:** Selectable from 3 modes of evaluation, center-weighted and spot metering
 - **Metering range:** LV6 to LV16
 - **Exposure compensation:** +2.0EV to -2.0EV (in 1/3 steps)
- Shutter:** CCD electronic shutter, electronic shutter with independent aperture control (1 to 1/2000 sec, selectable from 2 sec, 4 sec and 8 sec in long exposure mode)
- ISO sensitivity:** Auto, 100, 200, 400, 800
- White balance:** Auto, Manual (sunlight, incandescent lighting, cloudy, fluorescent lighting, preset)
- Sharpness:** +3 to -1 (5 levels)
- Chroma:** +, Standard, - (3 levels)
- Optical viewfinder:** True image zoom viewfinder
- Flash:** Built-in, pop-up type Flash range (see, P.32)
- Scene modes:** ① Standard ② Sports Action ③ Night View ④ Night/Portrait ⑤ Macro
⑥ Landscape
- Flash modes:** ① Auto flash ② Red-eye reduction auto flash ③ Fill-in flash ④ Flash-off
- Movie recording modes:** File type AVI (with and without audio selectable)
- Movie recording time:** Until the memory card becomes full
Playback environment on PC: QuickTime 4.1 or after (for Windows and Macintosh)

Continuous shooting:

Approx. 3fps

Still image recording:

Recording for 30 sec. per image, playback available

LCD monitor:

1.6" 70,000 pixel, dual backlight system, TFD Color LCD monitor, monitor brightness: Selectable

Playback mode:

Multiple image playback (6 frame-display), single image playback, recording (audio memo for still images), protect, erase, erase all, resize, rotate, auto play, DPOF setting, close-up playback, thumbnail playback, movie playback (movie recorded only by this camera), information display

Resizing:

Resizable to 320 X 240 or 160 X 120

Area to be resized selectable, File type: jpg

Erase:

Single frame, All frames

SET UP mode:

AF MODE, LCD BRIGHT, DATE, INSERT DATE, FORMAT, AUTO OFF, MODE LOCK, BEEP, SHUTTER VOL, COLOR SELECT, START SCREEN, REC REVIEW, LANGUAGE, VIDEO OUT, FILE NO., SETTING RESET

Video out:

NTSC/PAL composite video signal switching system, audio output

Input/output connector:

Video output connector (ø3.5 mini jack), external power input connector, USB connector

Power supply:

3.6V lithium-ion battery pack, available with dedicated AC adapter

Charge time:

Approx. 5 hours (full charge, +10°C to +30°C)

Battery capacity:

The number of recordable images (using flash 50% of the time, 2560 x 1920 in normal mode)

LCD monitor ON: Approx. 130 frames

LCD monitor OFF: Approx. 160 frames

(All values assume fully charged batteries and room temperature, and are based on our measuring standards.)

Ambient operating temperature: 0°C to 45°C**Dimensions:**

92 (W) x 57.5 (H) x 33 (D) mm (excluding protruding parts)

Weight:

Approx. 180g (excluding memory card or battery)

Note 1: DCF is short for "Design rule for Camera File system", a standard of the Japanese Electronic Information Technology Association (JEITA) that aims to simplify the use of digital camera image files between devices.

Note 2: DPOF is short for "Digital Print Order Format", which was jointly developed by Canon Ltd., Eastman Kodak, Fuji Photo Film and Matsushita Electric Industrial. DPOF is a standard offering you a solution to printing digital camera images. You can select which images to print and designate the number of copies to make on the digital camera's display and store that information.

* Specifications and descriptions are subject to change without notice.

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