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Part 15 Sub.part B Class B Digital Device

Exhibit F

OWNER'S MANUAL

FUJIFILM

SJ-40 (E)

初校出力紙

98/5/19

DIGITAL CAMERA

FUJIFILM MX-500



FUJI PHOTO FILM CO., LTD.
26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.
BB000000-00010

OWNER'S MANUAL


This manual will show you how to use your
DIGITAL CAMERA FUJIFILM MX-500 correctly.
Please follow the instructions carefully.

FGS-890000-FG



Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The graphical symbols are located on the bottom of the case.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For customers in the U.S.A.

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.

CAUTION

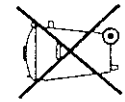
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate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

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.

For customers in Canada

CAUTION

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



Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA

■ Liquid Crystal

- If the LCD monitor or LCD panel is damaged, take particular care with the liquid crystal in the monitor or panel. If any of the following situations arise, take the urgent action indicated.
- If liquid crystal comes in contact with your skin. Wipe the area with a cloth and then wash thoroughly with running water and soap.
- If liquid crystal gets into your eye. Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed. Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

■ Trademark Information

- IBM PC/AT is a registered trademark of International Business Machines Corp. of the USA.
- Macintosh is a trademark of Apple Computer, Inc.
- MS-DOS and Windows are registered trademarks of the Microsoft Corporation of the U.S., registered in the USA and other countries.
- Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Explanation of Color Television System

NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.

PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

■ Notes on Electrical Interference

Do not use this device in aircraft or hospitals. The use of this device in an aircraft or hospital can cause malfunctions in the control devices used in the aircraft or hospital.

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Other

■ Test Shots Prior to Photography

For particularly important photographs (such as weddings and overseas trips), always take a test photograph to check that the camera is functioning normally.

- Fuji Photo Film Co., Ltd cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory cards containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Power Supply

In order to use this camera, you will need 4 AA-size long-life Ni-Cd or alkaline batteries or the AC-5V Power Adapter (sold separately). Do not use manganese batteries.

■ AC Power Adapter

Use only the AC-5V AC Power Adapter (sold separately) with your MX-500 Digital Camera. (The AC-5V are sold separately.) The use of an AC adapter other than the AC-5V may result in damage to your MX-500 Digital Camera.

■ SmartMedia

Use only Fujifilm image memory cards (SmartMedia). Either 5-volt or 3.3-volt SmartMedia can be used with the MX-500.

■ Handling Your Digital Camera

This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impacts or shocks while an image is being recorded.

■ Cleaning the Lens Surface

For optimum digital camera performance, make sure that the lens surface is free from dust, fingerprints, and other foreign particles. Gently wipe the lens surface clean with a soft dry cloth.

■ Data that Can Be Played Back on Your Camera

The MX-500 Digital Camera can be used to play back recorded image data or image data transferred from a personal computer (file names DSC00001.JPG to Exit_JPEG format) with file sizes up to 165KB).

■ LCD Monitor

The LCD monitor on your digital camera is manufactured using advanced high-precision technology. Even so, 0.01% or fewer of the pixels in the monitor may fail to light or may be permanently lit.

Features

- **High Quality Images**
1.5 million pixels primary-color CCD gives high-quality, high-resolution (1280 x 1024 pixels) images and video at a horizontal resolution of 480 lines or better (playback).
- **Compact and Light weight**
Size: 83 x 123 x 36 mm (3.3 x 4.8 x 1.4 in.)
Weight: 245g (8.6oz.) (not including accessories, battery or SmartMedia)
- **Extensive Focusing Range (with macro function)**
 - Normal: Approx. 50 cms (1.6ft.) to infinity
 - Macro: Approx. 9 cms (3.5in.) to 50 cms (1.6ft.)
- **Easy-to-Use Fixed-Focus Lens with Auto-Focus**
Equivalent to 35mm lens on a 35mm camera
Automatic aperture selection (F3.2/F8)
- **Flash**
Auto-flash with flash control sensor.
Flash modes: Auto (in low light), Red-Eye Reduction, Forced Flash and Suppressed Flash
- **Support for SmartMedia**
Uses compact, lightweight, fast and low-cost SmartMedia.
- **Choice of Quality/File Size**
 - Image Quality: FINE, NORMAL or BASIC
 - File Size: 1280 x 1024 pixels or 640 x 480 pixels
- **PC-Mode**
The Interface Set for Windows and Macintosh (supplied) allows image data to be transferred to and from a personal computer.
- **Date and Time Recording/Playback Function**
The date and time of shooting are automatically recorded and displayed on the LCD monitor.
- **Unparalleled ease of operation**

Accessories

Check the items shown below before using your camera

AA-size alkaline batteries (4)

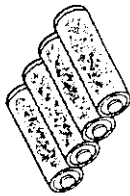
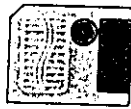


Image Memory Card (SmartMedia) (1)



Accessories

- Slatic-free case (1)
- Index labels (2 sheets)
- Write-protect seals (4)
- Owner's Manual

(1) Hand Strap (1)



Video Cable (approx. 1.5m (4.9 ft.), mini-plug (3.5mm dia.) to pin-plug cable) (1)



Interface Set (1)

- CD-ROM (Data Transfer Software PICTURE SHUTTLE, DS-Serial TWAIN Driver, Snap TWAIN Driver and PhotoDeluxe, for Windows and Macintosh) (1)
- Serial Cable for IBM PC/AT Compatible Computer (1)
- Serial Cable for Macintosh Computer (1)
- Install Manual for Windows and Macintosh (1 set)

Owner's Manual (1)

Explanation of Terms

ATA Card: A PC card (type II) that conforms to the ATA PC Card Standard.
JPEG (Joint Photographics Experts Group) format: A file format used for compressing and saving color images. The compression ratio can be selected, but the higher the compression ratio, the poorer the quality of the expanded image.

PC Card: A generic term for cards that meet the PC Card Standard.

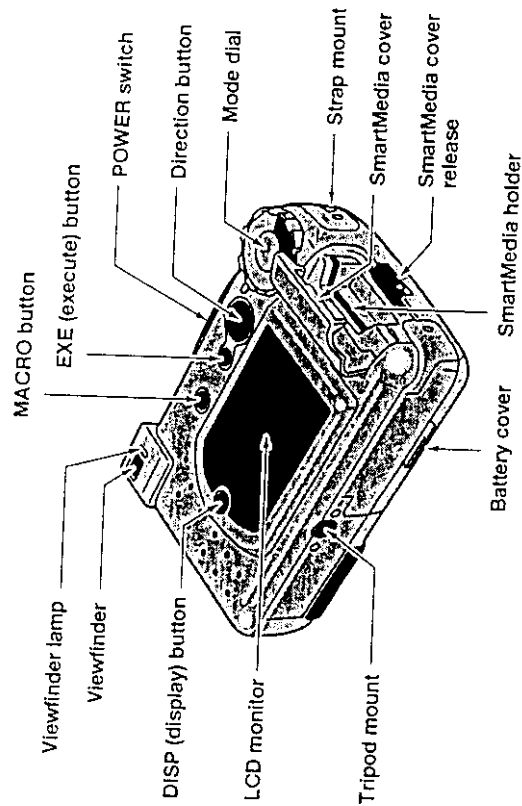
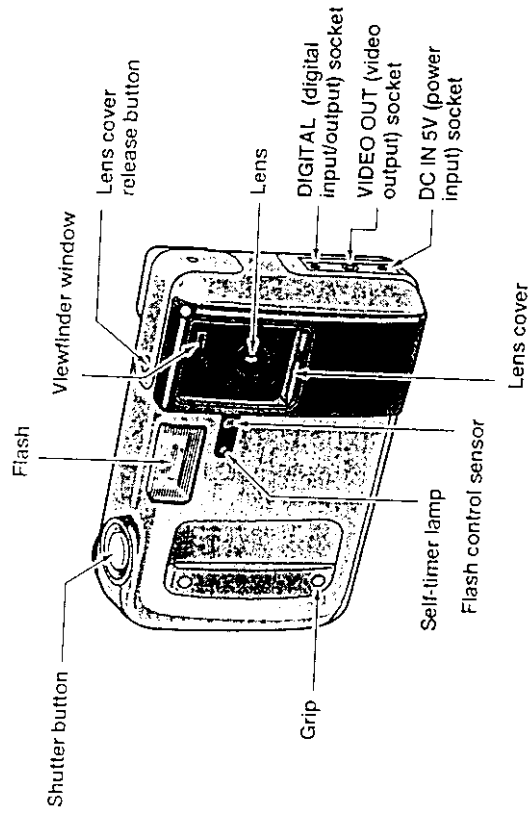
PC Card Standard: A standard for PC cards determined by the PCMCIA.

PCMCIA: Personal Computer Memory Card International Association (US).

SmartMedia: The name given to a new recording format determined by the SSFDC forum. By using the PC Card Adapter (sold separately), a SmartMedia card can be used as a PC card (Type II).

PREFACE

Nomenclature

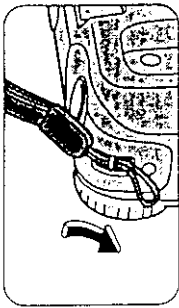


Using the Hand Strap

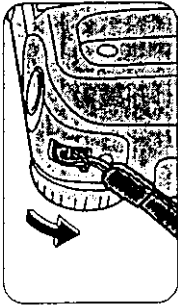
Use the hand strap to avoid dropping the camera during shooting.

Attaching the Hand Strap

1 Pass the end of the strap through the strap mount on the camera.



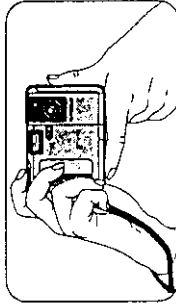
2 Pull the end of the strap back through the strap fastener.



Using the Hand Strap

1 Wear the strap around your wrist.

To avoid dropping the camera while shooting, loop the hand strap over your wrist and then hold the camera by the grip.

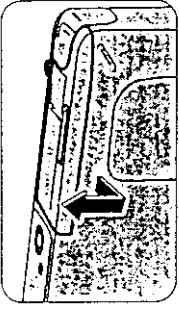


GETTING
READY

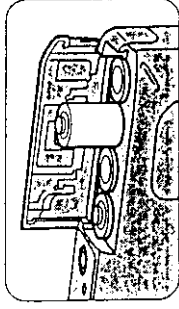
Loading the Batteries

Use 4 long-life Ni-Cd or alkaline batteries.

1 Slide the battery cover out and lift it up.



2 Load the batteries in the direction indicated.



3 Press down on the center of the battery cover to close the cover. Check that the battery cover is securely closed.



GETTING
READY

CAUTION

- When replacing the batteries, ensure that all four batteries are new and of the same type.
- Always switch the camera off before replacing the batteries.
- Check the date and time settings after you replace the batteries. See P.38 for information on resetting the date and time.

Number of Consecutive Shots Using New Batteries

See P.70.

To Obtain Maximum Use from Your Batteries

Always switch the camera off as promptly as possible.

When to replace the batteries

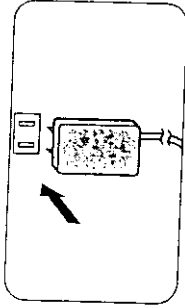
When the batteries go flat, the battery icon on the LCD flashes. This indicates that the batteries need to be replaced. If you are using Ni-Cd batteries, recharge the batteries.

Using the AC Power Adapter

In locations where a power outlet is accessible (usually indoors), the AC-5V AC Power Adapter (sold separately) provided especially for the MX-500 will allow you to take pictures for extended periods. You should also use the AC power adapter when you connect your MX-500 to a personal computer to avoid data transfer interruptions caused by a exhausted battery.

1

Plug the adapter into the power outlet.



2

Insert the AC power adapter plug into the DC IN 5V socket on the camera.

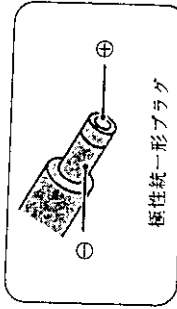


CAUTION

- Ensure that you do not touch the AC power adapter connector against any other metal object. This may cause a short circuit.
- Do not plug the AC power adapter pin into the DIGITAL (digital input/output) socket. This may damage your camera.
- Switch the power off before unplugging or plugging the AC Power Adapter.

AC Power Adapter

Use only the AC-5V AC Power Adapter (sold separately) with your MX-500 Digital Camera. The use of an AC power adapter other than the AC-5V could result in damage to your MX-500 Digital Camera.



SmartMedia

Compatible SmartMedia

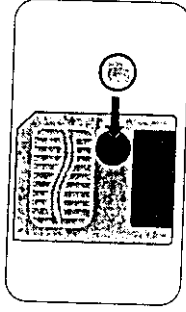
As well as the 2MB, 3.3V Image Memory Card supplied with your camera, you can also use the following SmartMedia:
5V SmartMedia: MG-2 (2MB) and MG-4 (4MB)
3.3V SmartMedia: MG-4S (4MB), MG-8S (8MB) and MG-16S (16MB)
With the PC Card Adapter (sold separately), you can use the above SmartMedia as PC Card Standard ATA-compliant PC cards (Type II).

CAUTION

Always refer to both "SmartMedia" in this manual (→ P.6) and the SmartMedia User's Guide.

Write Protection

To prevent the inadvertent erasing of important data, stick a write-protect seal over the write-protect area on the SmartMedia card. This seal makes it impossible to record data to or erase data from the card. To record or erase data, remove the seal.



CAUTION

The write protection may not function if the seal becomes soiled. Use a soft, dry cloth to wipe away any soiling.

Using a New SmartMedia

● Formatting (Initializing) the SmartMedia

To record data on a new SmartMedia, you must first initialize the SmartMedia using the MX-500 (P.36).

Formatting

Formatting a SmartMedia refers to the process of overlaying a format on the SmartMedia so that data can be recorded (written) onto the SmartMedia.

Notes on Using SmartMedia

■ Storing Data

- In the situations listed below, recorded data may be erased (destroyed). Please note that Fuji Photo Film Co., Ltd. accepts no responsibility whatsoever for the loss (destruction) of recorded data.
 - * When the SmartMedia is used incorrectly by the owner or a third party
 - * When the SmartMedia is exposed to static electricity or electrical noise
 - * When the SmartMedia cover is opened or the SmartMedia removed and the camera is then switched off during data recording, during data erasing (SmartMedia formatting) or during frame advance when images are being played back.
- Back up important data onto another medium (MO disk, floppy disk, hard disk, etc.).

■ Notes on Handling SmartMedia

- Never remove the SmartMedia or switch the camera off during data recording, during data erasing (SmartMedia formatting) or during frame advance when images are being played back. These actions could result in damage to the SmartMedia.
- Use only the SmartMedia specified for use with the MIX-500. The use of other SmartMedia could damage the camera.
- SmartMedia are precision electronic devices. Do not bend, drop, or subject SmartMedia to excessive shocks.
- Do not use or store SmartMedia in environments likely to be affected by strong static electricity or electrical noise.
- Do not use or store SmartMedia in very hot, humid or corrosive environments.
- Take care not to touch the SmartMedia's contact area or allow the area to become soiled. Use a dry lint-free cloth to wipe away any soiling that does occur.
- To avoid damage caused by static electricity, always use the special static-free case provided during transportation or storage, or keep the SmartMedia in a storage case if available.
- Do not carry SmartMedia in locations such as a trouser pocket. This could subject the SmartMedia to excessive force when you sit down, thereby damaging the SmartMedia.
- The SmartMedia may feel warm when it is removed from the camera after extended periods of picture taking or image viewing. This is normal and does not indicate a fault.
- Inserting a SmartMedia that is charged with static electricity into your camera may result in a camera malfunction. If this occurs, switch the camera off and then on again.

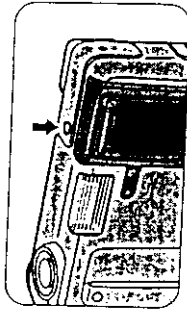
GETTING
READY

Switching On

1

Open the lens cover.

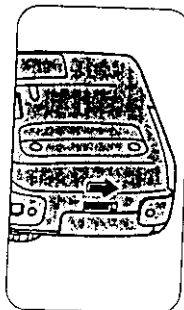
Press the lens cover release button to open the lens cover.



2

Load the SmartMedia.

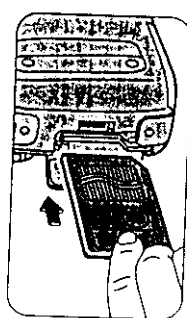
Slide the SmartMedia button in the direction of the arrow (→) to open the SmartMedia cover.



2

Load the SmartMedia.

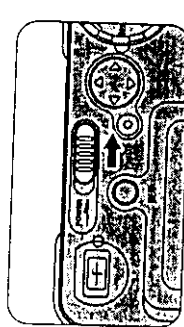
Slide the SmartMedia slowly all the way into the SmartMedia holder with the contact area (gold-colored portion) facing the front of the camera.



3

Switch the camera on.

Slide the POWER button in the direction of the arrow and then release it. The opening screen appears.



The opening screen

The opening screenshown during the day differs from that shown at night. If you hold down the [DISP] button as you switch the camera on, the direction indicator flashes and rotates, then the opening screen appears. To revert to the opening screen not being displayed, switch the camera off and then hold the [DISP] button down as you switch the camera on again.

Switching On and Switching Off

Switching Off

Check that the camera is not recording an image.

1

Switch the camera off.

Slide the POWER button all the way in the direction of the arrow and then release it.

2

Remove the SmartMedia.

1 Slide the SmartMedia release knob to open the SmartMedia cover.

2 Grip the SmartMedia with your fingertips and pull it out.

3 Close the SmartMedia cover.

3

Close the lens cover.

Slide the cover in the direction of the arrow to close it.

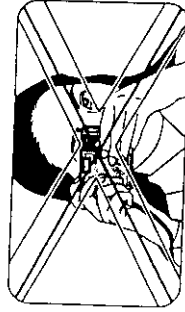
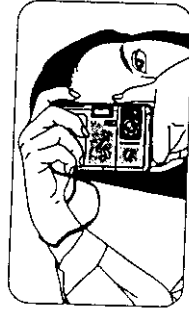
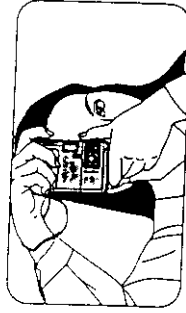
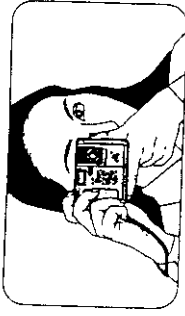
CAUTION

- Always switch off the camera before removing or loading a SmartMedia.
- Opening the SmartMedia cover automatically switches the camera off.
- Never open the SmartMedia cover or attempt to remove the SmartMedia while data is being recorded onto or read from the SmartMedia. This could damage the data stored on the SmartMedia or damage the SmartMedia itself.

16

How to Hold the Camera

To prevent camera movement (shake), hold the camera with both hands and brace your elbows firmly against your sides.



GETTING
READY

If you are holding the camera on its side (portrait mode), hold the camera so that the viewfinder is uppermost.

CAUTION

Take care that your fingers or the hand strap do not obscure the lens or flash.

17

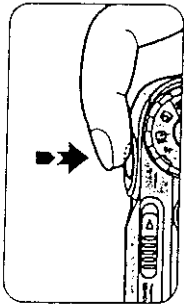
Pressing the Shutter Button

The shutter button on the MX-500 has two positions. If you press the shutter button lightly, it stops half way down. Pressing the button beyond this point activates the shutter and takes a picture.

1

Pressing half way (pressing lightly):

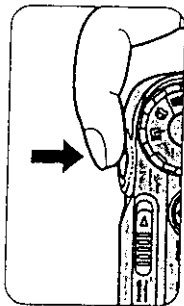
- AF (auto focus) and AE (auto exposure) operation begins
- The AF and AE settings are locked.
- The viewfinder lamp turns green.



2

Pressing fully (pressing the button further down from the halfway position):

- The camera takes a picture.



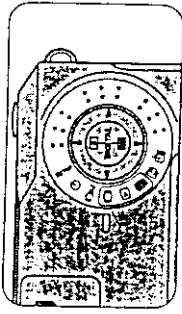
CAUTION

- Moving the camera as you press the shutter button will result in a blurred image.
- Hold the camera firmly in both hands.

GETTING READY

Mode Dial and DISP. Button

1 Overview of the Mode Dial



[SETUP]: **Setup Mode (→P.38)**

Allows you to set the flash mode, quality, file size, sharpness, frame number memory, buzzer tone, date and time.

[S]:

Self-timer mode (→P.44)

Allows you to use a 10-second timer for self-timer shooting.

[M]:

Manual Mode (→P.45)

Allows you to check the photographed image before it is recorded. This mode also allows you to select the white balance, brightness and flash brightness settings. The Manual mode also allows you to shoot in Synchro mode or Multi-REC mode.

[A]:

Normal mode (→P.23)

This is a simple and convenient photography mode in which the camera automatically selects the exposure (a combination of shutter speed and aperture setting) and the focus to suit the shooting conditions. This mode is ideal for general photography where you are not trying to achieve any particular effect.

[P]:

Playback Mode (→P.30, P.53)

Allows normal single-frame playback, multi-frame playback, automatic playback, playback zoom and special effects.

[E]:

Erase mode (→P.33)

Allows you to erase one frame, erase all frames or initialize a SmartMedia card from which all the frames have been erased.

[P]:

Protect mode (→P.64)

Allows you to protect one frame, or to remove the protection from one frame or all the frames.

[S]:

PC mode (→P.67)

Allows you transfer your images to a personal computer or to operate your camera from a personal computer.

GETTING READY

Mode Dial and DISP Button

2 Information Displayed by the [DISP] Button

The table below shows the information displayed on the LCD by the DISP button for different Mode dial settings.

Mode Dial Setting	Information Shown on LCD
[0] Self-timer mode	Live image* + on-screen display (initial status) → All OFF
[OM] Manual mode	Live image + on-screen display (initial status) → Live image → On-screen display
[D] Normal mode	Live image + on-screen display (initial status) → Live image → All OFF
[S] Playback mode	Single-frame playback + on-screen display (initial status) → Single-frame playback → Multi-frame playback
[E] Erase mode	Single-frame playback + on-screen display (initial status) → Multi-frame playback + menu display
[P] Protect mode	Single-frame playback + on-screen display (initial status) → Multi-frame playback + menu display
[S] PC-mode	On-screen display (initial status) → On-screen display OFF

* Live image refers to the video image shown before a picture is taken.

NOTE

To avoid draining the batteries unnecessarily, switch the display off while you are taking pictures and use the viewfinder.

Adjusting the LCD Monitor Brightness

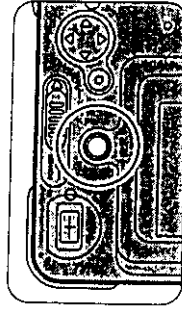
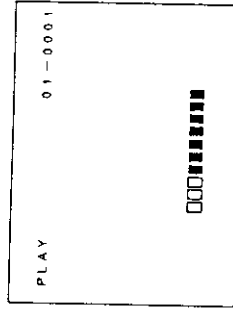
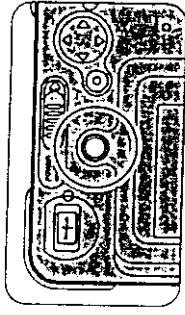
1 Hold down the [DISP] button (approx. 2 seconds).
The brightness adjustment mode screen appears on the LCD monitor.

2 Use the [◀] and [▶] buttons to adjust the brightness.

3 Press the [DISP] button again to complete the changes.
When you exit the brightness adjustment mode screen, you return to the screen you were in previously.

CAUTION

You cannot adjust the brightness while the Mode dial is set to [SETUP] or [S].



GETTING READY

GETTING READY

Viewfinder Lamp

Viewfinder Lamp		Meaning
Color	Status	
Green	Lit	Ready to shoot
Orange	Lit	Image being recorded onto the SmartMedia
	Flashing	Flash charging
Red	Flashing (Shutter button pressed down half way)	<ul style="list-style-type: none"> • SmartMedia not loaded. • SmartMedia not formatted. • Incorrect format. • SmartMedia write-protected. • No free space. • SmartMedia faulty * Error details can be checked on the LCD.

GETTING READY

Auto Power-Off Function

To prevent the depletion of the batteries and the waste of power when the AC power adapter is used, the camera automatically switches itself off if it is not used for two minutes or more.

The Auto Power Off function does not operate in automatic playback mode or PC mode. If the live image is displayed when the Auto Power Off function switches the camera off, the live image is still shown when you switch the camera back on.

- To disable the Auto Power Off function, hold down the [EXE] button when you switch the camera on.

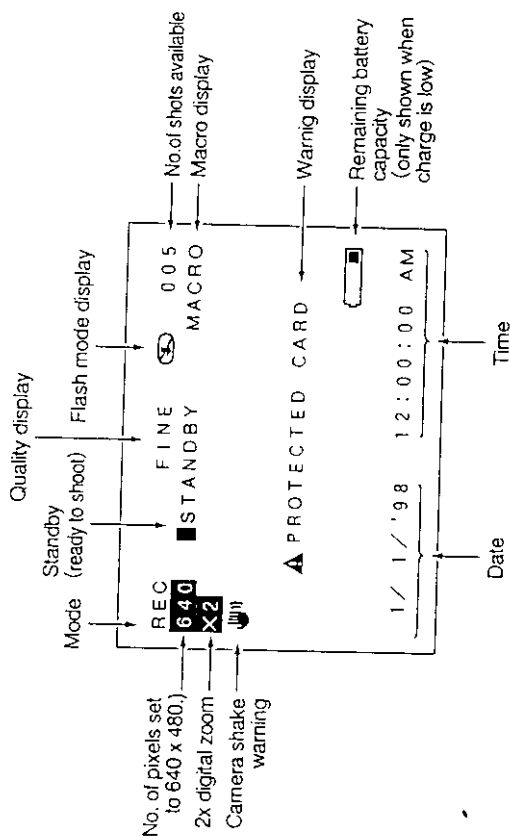
Note that if the camera is left unused for 6 minutes or more, the flash may not operate when a photograph is taken and you may not obtain the correct image. Switching the camera off and then on again re-activates the Auto Power Off function.

Normal(AUTO) Mode

Normal mode is a simple and convenient photography mode in which the camera automatically selects the exposure (a combination of shutter speed and aperture setting) and the focus to suit the shooting conditions. This mode is ideal for general photography where you are not trying to achieve any particular effect. To avoid depleting the battery, you should use the viewfinder rather than the LCD monitor when taking pictures.

However, note that the field of view in the image seen through the viewfinder may not match that of the image photographed. To precisely determine the actual field of view, use the LCD monitor when you take the picture. It may be necessary to format the SmartMedia (→P.) before you take any pictures.

Example of LCD Monitor Text Display

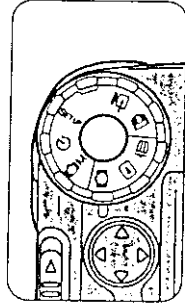


Asterisks indicate items that may not be displayed depending on the camera mode and photography conditions.

Normal (AUTO) Mode

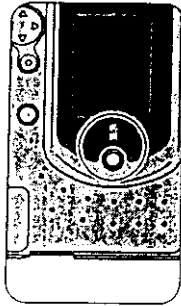
Taking Pictures Using the Viewfinder

1 Set the Mode dial to [A].



2 Press the [DISP] button to switch off the LCD monitor.

* See P.20 for more information on using the [DISP] button.

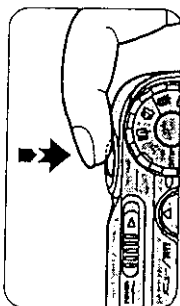


3 Look through the viewfinder to compose the picture.



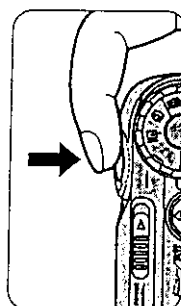
4 Press the shutter button half way.

- The camera automatically adjusts the focus and exposure.
- See P.18 for more information on using the shutter button.



5 Without lifting your finger off, press the shutter button down fully.

The camera takes a picture while the image data is being recorded onto the SmartMedia, the viewfinder lamp turns orange. You cannot take pictures while the lamp is orange.



NOTE

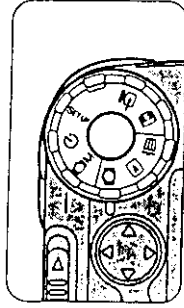
The amount of image data recorded is not fixed and varies depending on factors such as the level of detail in the image. As a result, in some cases the number of shots available may not decrease, or may decrease by 2 when recording ends.

CAUTION

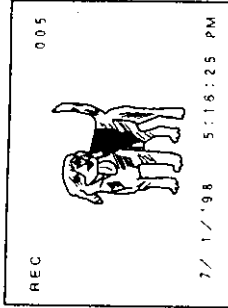
- Always switch off the camera before removing or loading a SmartMedia.
- Opening the SmartMedia cover automatically switches the camera off.
- Never open the SmartMedia cover or attempt to remove the SmartMedia while data is being recorded onto or read from the SmartMedia. This could damage the data stored on the SmartMedia or damage the SmartMedia itself.

Taking Pictures Using the LCD Monitor

1 Set the mode dial to [A].



2 Look at the LCD monitor to compose the picture.

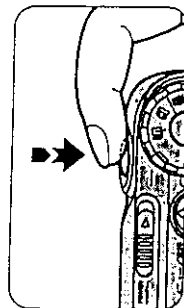


NOTES

- If the image on the LCD monitor is difficult to see, you can adjust the brightness of the monitor. See P.21 for details.
- Adjusting the monitor brightness does not affect the brightness of the recorded image.

3 Press the shutter button down half way.

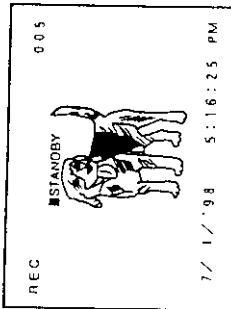
- The camera automatically adjusts the focus and exposure.
- See P.18 for more information on using the shutter button.



Normal (AUTO) Mode

NOTES

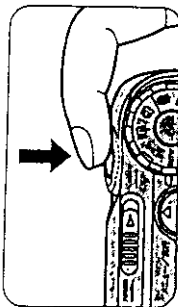
- The image is not displayed while the exposure and focus are being adjusted.
- Once the exposure is set, "STANDBY" appears on the LCD monitor.



4

Without lifting your finger off, press the shutter button down fully.

The camera takes a picture. While the image data is being recorded onto the SmartMedia, the viewfinder lamp turns orange. You cannot take pictures while the lamp is orange.



- Using the viewfinder to take pictures uses less battery power and allows you to take pictures for longer.
- Look at the LCD monitor from directly in front.
- Hold the camera firmly to avoid camera shake.
- Depending on the subject of the photo (the width of the image, etc.) the number of available shots may not decrease after the image is recorded or may decrease by 2. This is because the amount of data recorded varies from image to image.

CAUTION

- Never open the SmartMedia cover or attempt to remove the SmartMedia while data is being recorded onto or read from the SmartMedia. This could damage the data stored on the SmartMedia or damage the SmartMedia itself.
- Opening the SmartMedia cover switches the camera off.
- Some dots on the LCD monitor may be permanently bright or dark or may be the same color all the time. This is not a fault and does not affect the quality of the recorded image.

BASIC PHOTOGRAPHY

Digital x2 function

By using the digital x2 function, you can enlarge the central area of the image to twice its normal size and thereby double the apparent focal length of the lens (to the equivalent of roughly 70mm on a 35mm camera).

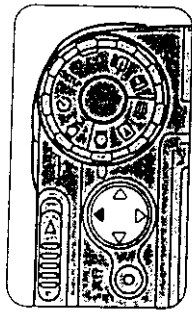
NOTE

The digital x2 function is only available when you are using the LCD monitor to take pictures (→P.).

1

Press the [▲] button.

- "x2" appears on the LCD monitor and the central part of the image doubles in size.



2

Look at the image on the LCD monitor to compose the shot, and then take the picture.

- See P. for information on how to take the picture.

To Exit the digital x2 Mode

Press the [▼] button.

NOTES

- The file size is fixed at 640 x 480 pixels. Because the central part of the image is enlarged, the image quality is lower. However, the file size (number of pixels) displayed on the LCD panel does not change.
- The digital x2 function is automatically switched off when you switch the camera off, press the [DISP] button to switch the LCD monitor off, or if the Auto Power Off function is triggered.

BASIC PHOTOGRAPHY

Macro (Close-Up) Photography

Using the Macro (close-up) function, you can take pictures of subjects at distances of between 9cms (3.5in.) and 50cms (1.6ft.) from the camera. When you shoot subjects close up, the field of view you see through the viewfinder does not match the actual image photographed. Use the LCD monitor to compose close-up shots since the monitor shows you the actual field of view for the shot. You should also use Manual mode so that you can check the image before recording it. See P.45 for more information on shooting in Manual mode.

1 Press the [M/] (Macro) button.

- The live image (the video image shown before a picture is taken) appears on the LCD monitor.

2 Look at the image on the LCD monitor to compose the shot, and then take the picture.

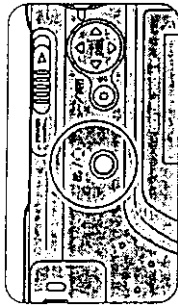
- See P. for information on how to take the picture.

To Exit Telephoto Mode

Press the [M/] (Macro) button.

NOTES

- The flash only operates when Forced flash photography (→P.48) is specified.



BASIC PHOTOGRAPHY

Taking Pictures and Viewing Images on a TV

To use a television to take pictures and view images, first connect the camera (NTSC or PAL model) to the television (NTSC or PAL model). Use the AC-5V AC power adapter with the camera if you have access to a power outlet (usually indoors).

CAUTION

Always switch all devices off before connecting them together.

1

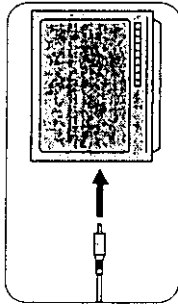
Switch the camera off and insert the small plug on the video cable (supplied) into the VIDEO OUT socket on the camera.

Always switch devices off before connecting them together.



2

Plug the other end of the video cable into the video input socket on the TV.



3

Take a picture (or view an image).

See P.29 for information on how to take pictures and P.23 for information on how to view images.

NOTE

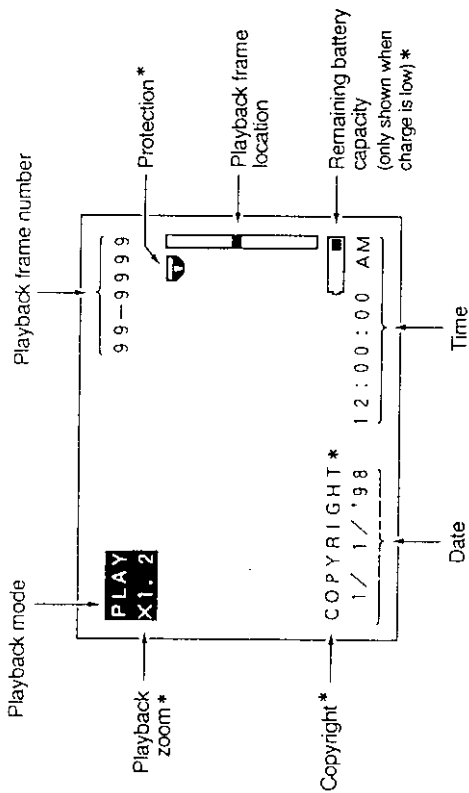
No image appears on the LCD monitor if the video cable is connected to the camera.

The live image (the video image shown before a picture is taken) is not as clear as the image shown in playback mode (The resolution is lower).

Playback

Use the AC-5V AC Power Adapter with the camera if you have access to a power outlet (usually indoors).
See P.29 for information on how to view images on a TV.

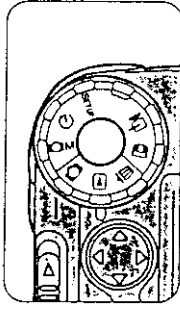
Example of LCD Monitor Text Display



- Asterisks indicate items that may not be displayed depending on the camera mode and photography conditions.
- When you are playing back images recorded on another camera, the playback mode display and playback frame number may differ from the characters in the example shown here.
- The copyright information appears when the optional interface set has been used to include the copyright holder information in the recorded image. For details, refer to the User's Guide supplied with the interface set software.

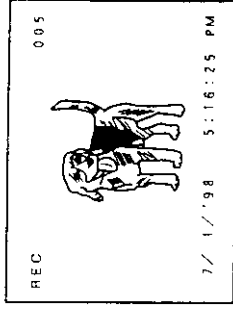
Single-Frame Playback

1 Set the mode dial to [▶]. The last recorded frame appears on the LCD.



NOTES

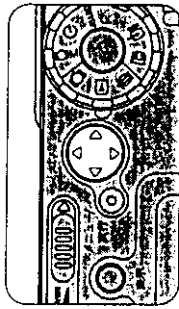
- If the image on the LCD monitor is difficult to see, you can adjust the brightness of the monitor. See P.21 for details.
- Adjusting the monitor brightness does not affect the brightness of the recorded image.



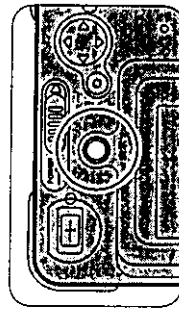
2 Use the [▲] and [▼] buttons to move to other frames.

Hold down the cursor movement key to automatically scroll forward or backward through the frames.

- [▶]: Scroll forward
- [◀]: Scroll backward

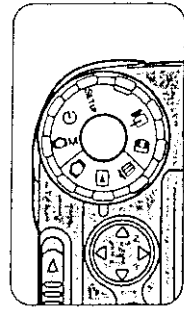


3 To switch off the on-screen display, press the [DISP] button.



Playback Zoom: Displaying the Image on the LCD Monitor Enlarged up to 400%

Playback zoom allows you to enlarge images up to 400% and can be used during single-frame playback.



1 Set the mode dial to [Z]. The last recorded frame appears on the LCD.

2 Use the [◀] and [▶] buttons to select the frame to be enlarged.

Press the [DISP] button to select frames in the same way as in 9-shot multi-frame playback.

3 Use the [▲] or [▼] button to set the zoom scale.

4 You can then move the zoom position by holding down the [⏪/◀] button and pressing the [◀], [▶], [▲] and [▼] buttons.

5 Press the [◀] or [▶] button to move to the previous or next frame and cancel the zoom settings.

Multi-Frame Playback: 9-Shot Multi-Image Playback

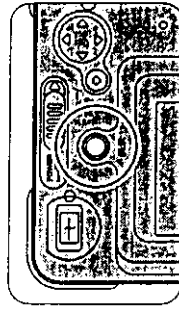
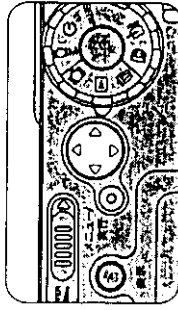
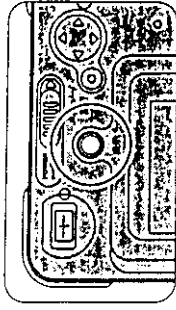
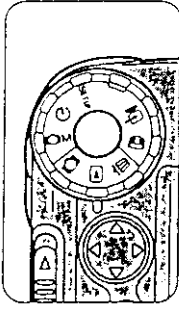
1 Set the mode dial to [M]. The last recorded frame appears on the LCD.

2 Press the [DISP] button (2 times). The 9-shot multi-frame playback screen appears.

3 You can now use the [▲] and [▼] buttons to move the pointer to the desired frame.

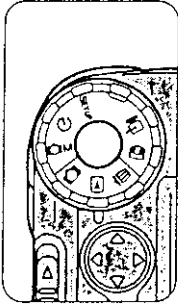
Hold down the cursor movement key to move the cursor more quickly.

4 Press the [DISP] button again to playback the selected frame and display the image on the LCD.

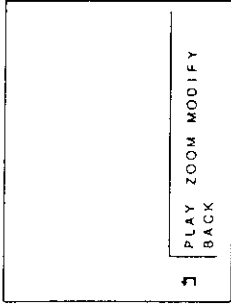


AUTO PLAY: Playback with automatic frame advance

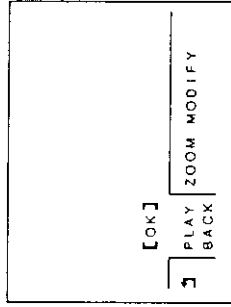
1 Set the mode dial to [P]. The last recorded frame appears on the LCD.



2 Press the [EXE] button. The menu screen appears.



3 Press the [EXE] button to begin automatic playback.



4 Pressing the [EXE] button again ends automatic playback and returns to the menu screen.

NOTES

The Auto Power Off function does not operate during automatic playback.

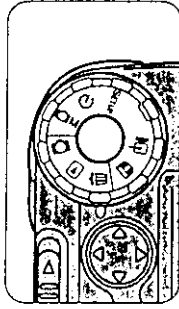
CAUTION

- You cannot erase protected frames. → P.64
- Formatting a SmartMedia erases all the frames on the card, regardless of whether they are protected.
- You cannot erase images from or format a write-protected SmartMedia. → P.13

ERASE FRAME

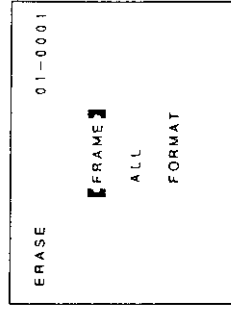
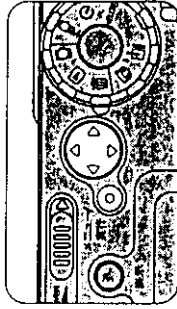
This feature erases the selected frame.

1 Set the Mode dial to [P]. The menu screen appears.



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2 Use the [▲] or [▼] button to select [FRAME] and press the [EXE] button.



Erasing Images (Erasing Images)

- 3** Use the [◀] and [▶] buttons to select the image to be erased and press the [EXE] button. Press the [DISP] button to select frames in the same way as in 9-shot multi-frame playback.

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- 4** A confirmation message appears.

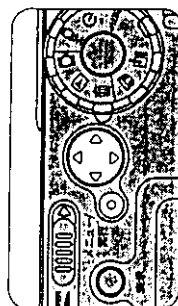
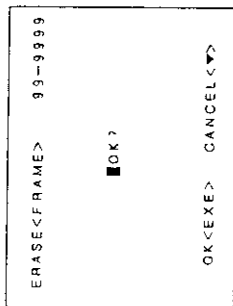
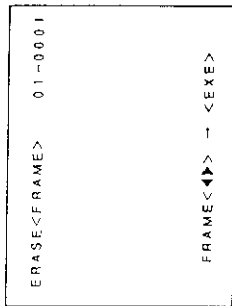
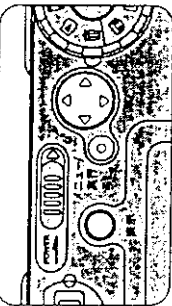
- 5** To erase the selected image, press [EXE]. To cancel, press the [▼] button.

- 6** To erase another frame, repeat the procedure from step 3.

CAUTION

If (A PROTECT!!!) is displayed, the image cannot be erased. Switch to Protect mode (→P.64) to remove the protection.

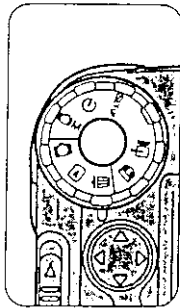
36



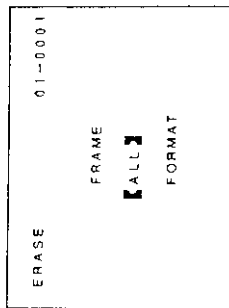
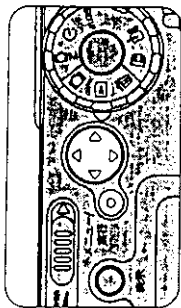
Erasing All Frames

This operation erases all the unprotected frames (Protect Mode →P.64) on a SmartMedia.

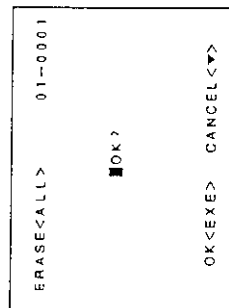
- 1** Set the Mode dial to [P]. The menu screen appears.



- 2** Use the [▲] or [▼] button to select [ALL] and press the [EXE] button.



- 3** A confirmation message appears.

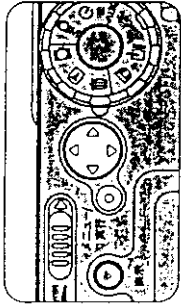


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Erasing Images (Erasing Images)

To erase the images, press [EXE].
To cancel, press the [▼] button.

4



FORMAT (Initialization)

This feature format (initializes) the SmartMedia and erases all the frames on the card, including any protected frames.

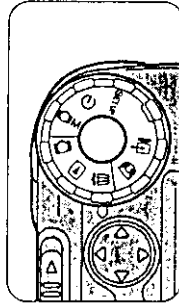
CAUTION

Always use the camera to format a SmartMedia.

Set the Mode dial to [FORMAT]. The menu screen appears.

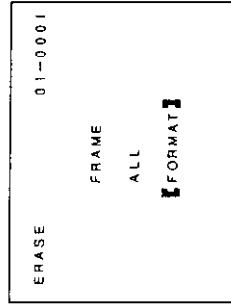
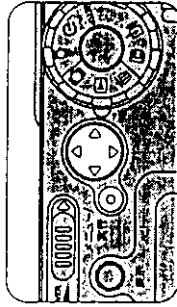
1

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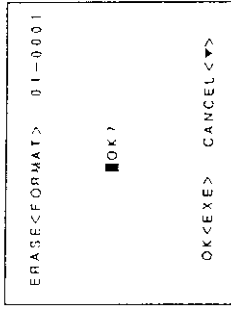
Use the [▲] or [▼] button to select [FORMAT] and press the [EXE] button.

2



A confirmation message appears.

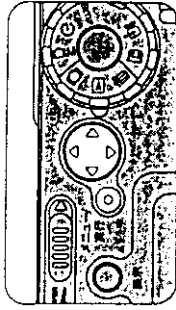
3



To format the SmartMedia, press [EXE]. To cancel, press the [▼] button.

4

If you format the SmartMedia, "00-0000" is shown as the playback frame number for the SmartMedia.



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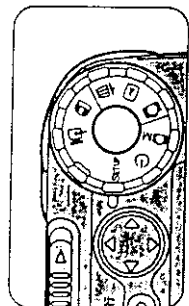
Setup Mode

Use Setup mode to specify the 8 settings listed below. The **◆** icon indicates the default setting.

1. FLASH
2. QUALITY
3. FILE SIZE
4. SHARPNESS
5. FRAME NO.
6. BEEP
7. DATE/TIME
8. RESET

1

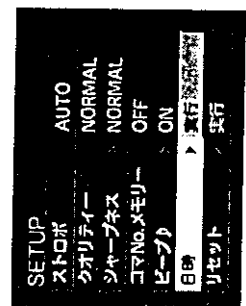
Set the Mode dial to [SETUP].
The SETUP screen appears.



2

Use the [▲] and [▼] buttons to move to the setting you want to change.

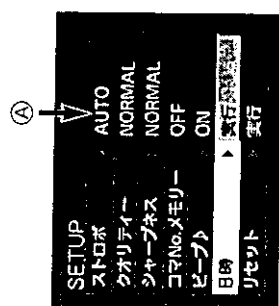
• The highlight () moves.



3

Use the [◀] or [▶] button to change the setting.

Each time you press the button, the setting in field **(A)** changes. For the [DATE/TIME] and [RESET] settings, press the [EXE] button to move to the respective setup screen. Select the appropriate settings for the shooting conditions.



4

To confirm the settings, use the [▲] and [▼] buttons to move the cursor to the next setting or switch the Mode dial to another setting.

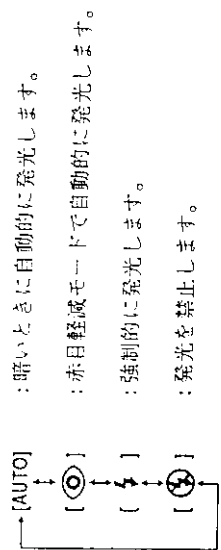
CAUTION

The settings are retained when you switch the camera off. However, if you remove the batteries or disconnect the AC power adapter while the camera is switched on, the settings revert to the previous values.

ADVANCED FEATURES

Flash

Sets the flash operation mode.
[LCD Monitor Display Sequence]



- [AUTO] : 暗いときに自動的に発光します。
- [Red-Eye Reduction] : 赤目軽減モードで自動的に発光します。
- [Forced Flash] : 強制的に発光します。
- [Red-Eye Effect] : 発光を禁止します。

AUTO

- In this mode, the flash operates automatically according to the shooting conditions.
- This mode is ideal for general photography where you are not trying to achieve any particular effect.

CAUTION

The flash does not operate in macro photography.

[Red-Eye Reduction]

Use this mode to avoid the "red-eye effect" when photographing people in low-light conditions.

The flash emits a pre-flash just before the picture is taken and then flashes again to take the actual picture.

- Red-Eye Effect

When you use the flash to photograph people in low-light conditions, their eyes sometimes appear red in the picture. This is caused by the light of the flash reflecting off the inside of the eye. To minimize the likelihood of the red-eye effect, take the following precautions when you take the picture:

- ① Use Red-Eye Reduction mode.
- ② Let the subjects to look at the camera.
- ③ Let as close as possible to the subjects.

[Forced Flash]

In this mode, the flash always operates.

Use Forced Flash to shoot pictures in artificial light (fluorescent lighting, etc.). The flash also operates during macro photography.

Setup Mode

■ [S] Suppressed Flash

Use Suppressed Flash mode when you are taking pictures in indoor lighting at distances too great for the flash to have any effect, such as theater performances or indoor sporting events.

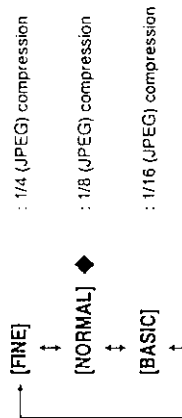
This mode stops the flash from operating.

* If you use Suppressed Flash mode when you are taking a picture in low-light conditions, use a tripod to prevent camera shake.

QUALITY

You can select any of 3 kinds of quality (image compression ratios), depending on the type of shot. The number of shots available (→P.) varies depending on the image quality you select. [FINE], [NORMAL] or [BASIC] appears on the LCD panel to indicate the image quality setting. Select [FINE] when you want better image quality and [BASIC] when you want to fit more images on the SmartMedia.

[LCD Monitor Display Sequence]

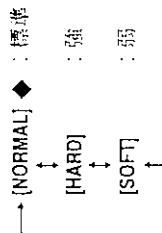


ADVANCED FEATURES

SHARPNESS

The Sharpness setting allows you to sharpen or soften the outlines in an image to suit the subject.

[LCD Monitor Display Sequence]



[HARD] : The outlines in the image are sharpened.

[SOFT] : The outlines in the image are softened.

FRAME NO.

Set the type of increment for recorded image frame numbers (file numbers). Switching the frame number option on is useful for organizing your image files since it prevents the duplication of file names when images are downloaded to a personal computer.

[LCD Monitor Display Sequence]

[OFF] ◆ : Frame numbers are incremented consecutively from the last frame number on the loaded SmartMedia.
↑

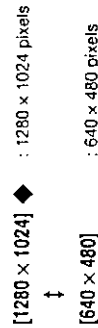
[ON] : Frame numbers are incremented consecutively from the last frame number on the last SmartMedia used. However, where the number of frame already stored on the SmartMedia is greater than the above last frame number, frame number are incremented sequentially from the highest frame number on the SmartMedia.

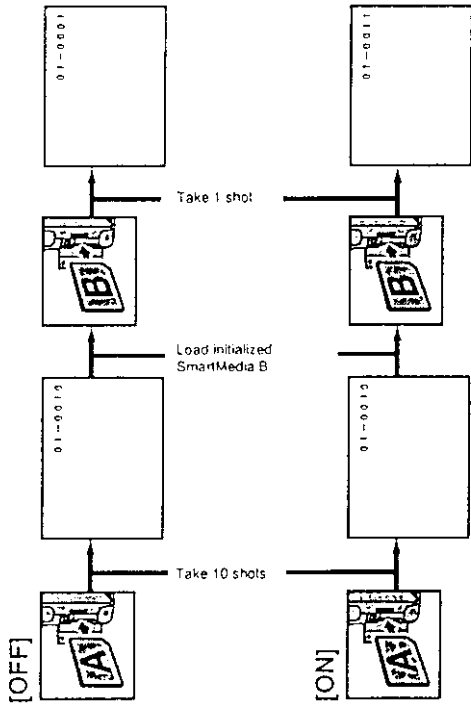
ADVANCED FEATURES

FILE SIZE

You can select either of two file size (number of pixels) settings depending on the type of shot. The number of shots available (→P.96) varies depending on the file size setting you select. [1280] or [640] appears on the LCD panel to indicate the file size.

[LCD Monitor Display Sequence]





- * The first 2 digits of the frame number indicate the directory number while the remaining 4 digits are the file number.
- * The highest frame number is 99-9999.
- * When file number 9999 is reached, the directory number increases by 1 and filing of images shot restarts from file number 0001.
- * The highest directory number is 99. When frame number 99-9999 is reached, set FRAME NO. to OFF and erase some of the recorded images on the SmartMedia before using frame number memory again.

ADVANCED FEATURES

BEEP

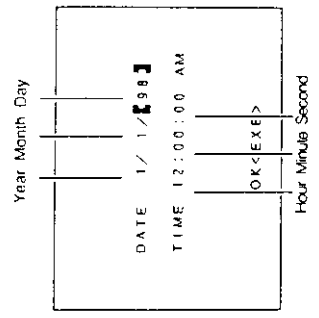
This setting allows you to switch the camera buzzer on or off. Use the buzzer as appropriate.

[LCD Monitor Display Sequence]

- [ON] ◆ : The buzzer sounds (beeps) to indicate the camera status and specific camera operations.
- ↑
- [OFF] : The buzzer emits no sound regardless of the camera status.

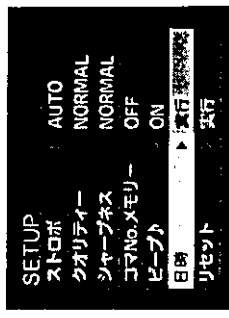
DATE/TIME

- 1 This setting specifies the date and time. The date and time are displayed with the year digits flashing. Each time you press the [▶] button, the flashing digits change as follows: Year → Month → Day → Hour → Minute → Second.



- 2 Use the [▲] and [▼] buttons to set the numbers and then press the [EXE] button to move to the [SETUP] screen.

- 3 When you have set the date and time, press the [EXE] button to complete the settings. Then press the [EXE] button again to return to the SETUP screen.



ADVANCED FEATURES

- * The seconds display changes to [00] and starts running when you press the [EXE] button.
- * Check the date and time settings after you replace the batteries.

NOTE

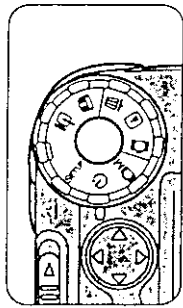
The date and time settings are retained for 5 minutes. Ensure that you load the new batteries within 5 minutes when replacing the batteries.

RESET

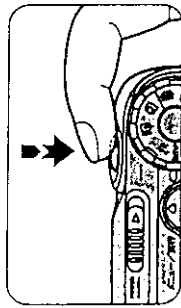
This function resets the settings to the default values (indicated by ◆) when you press the [EXE] button. Note that the date and time are not reset.

Self-Timer Mode

1 Set the mode dial to [S].

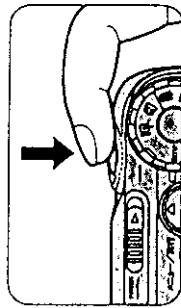


2 Compose the picture and press the shutter button down half way.

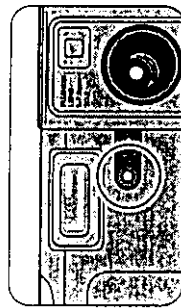


The camera automatically sets the exposure.

3 Press the shutter button down fully.



4 The self-timer lamp lights and then flashes.



The shutter operates after 10 seconds.

NOTES

- To interrupt the self-timer, press the [V] button or set the Mode dial to another mode.
- When you are using the LCD monitor to shoot the picture, a countdown from 10 is displayed on the monitor.

Manual Mode

Manual mode allows you to specify all the photography settings and then check the photographed image on the LCD monitor before you decide whether or not to record the image onto the SmartMedia.

CAUTION

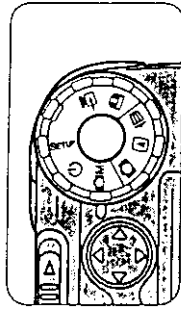
The white balance, brightness (exposure compensation) and flash brightness settings are only available in [Mv]: Manual mode. Synchro mode and Multi-REC mode (consecutive shooting) are also only available in Manual mode.

Note also that if you switch the camera off, the Manual mode settings are retained and are valid when you switch the camera back on.

The settings are retained when you switch the camera off. However, if you remove the batteries or disconnect the AC power adapter while the camera is switched on, the settings revert to the previous values.

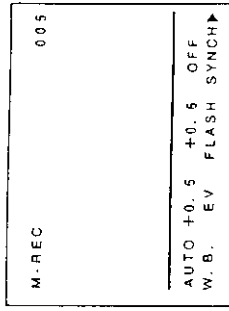
1 Set the Mode dial to [M].

When the menu screen is not shown on the LCD monitor, press the [DISP] button.



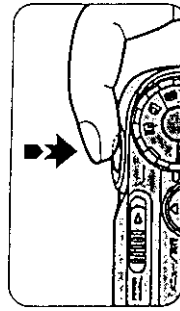
NOTES

- If the image on the LCD monitor is difficult to see, you can adjust the brightness of the monitor. See P.21 for details.
- Adjusting the monitor brightness does not affect the brightness of the recorded image.

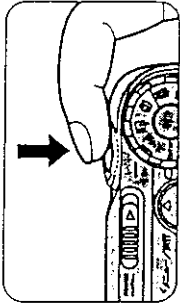


2 Compose the picture and press the shutter button down half way.

The camera automatically sets the exposure.



3 Press the shutter button down fully.



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4 The preview (thumbnail) image appears on the LCD monitor.

Use the preview image to check the composition and brightness of the image shot. Because the resolution of the preview image is low, details may not appear clearly on the LCD monitor. To check the image details and the focusing, record the image onto a SmartMedia and then view the image in playback mode.

5 To record the image onto the SmartMedia, press the [EXE] button.

To discard the image, press the [▼] button.

What is Thumbnail?

A thumbnail image is a small image created by displaying the photographed image with a reduced number of pixels.

CAUTION

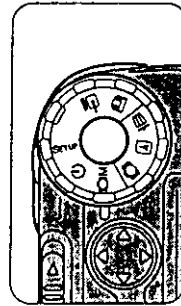
- Always switch off the camera before removing or loading a SmartMedia.
- Opening the SmartMedia cover automatically switches the camera off.
- Never open the SmartMedia cover or attempt to remove the SmartMedia while data is being recorded onto or read from the SmartMedia. This could damage the data stored on the SmartMedia or damage the SmartMedia itself.

Setting the White Balance

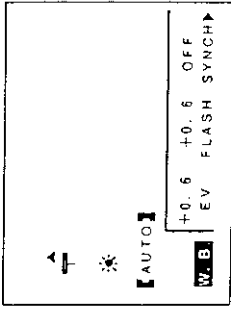
You can select any of 5 white balance settings: Outdoor, Shade, Fluorescent 1, Fluorescent 2 and Incandescent. The Outdoor setting is normally used. Use the other settings to set the white balance when you are shooting in shadow or in special lighting.

1 Set the Mode dial to [OM].

- If the LCD monitor is switched off, press the [DISP] button.



2 Use the [◀] or [▶] button to select [W.B.].



3 Use the [▲] or [▼] button to select the white balance setting.

- [AUTO]: Adjusted automatically
- [*]: Shooting outdoors (in fine weather)
- [☼]: Shooting in fluorescent light (in bluish light)
- [☾]: Shooting in fluorescent light (in reddish light)
- [☆]: Shooting in incandescent light

4 Use the [EXE] button to confirm the setting.

NOTES

- The default setting is [AUTO] (Outdoor).
- This setting does not apply when the flash is used.

What is White Balance?

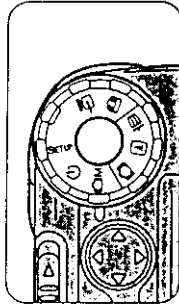
When the brightness of the light changes, the human eye adapts so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance.

Setting the Brightness (Adjusting the Exposure)

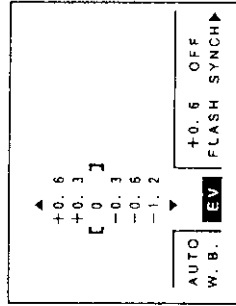
Use this setting to achieve the optimum image brightness (exposure) when the subject is very small in the picture or when the subject is much brighter or darker than the background.

1 Set the Mode dial to [M].

If the LCD monitor is switched off, press the [DISP] button.



2 Use the [◀] or [▶] button to select [EV].



Use the [▲] or [▼] button to select the brightness (exposure compensation).

[▲] : Brightens the image.

[▼] : Darkens the image.

There are 9 compensation levels (-0.9 to +1.5EV in approx. 0.3EV steps).

CAUTION

In low-light conditions, pressing the [▲] button may not make the image brighter.

Use the [EXE] button to confirm the setting.

NOTES

- The default setting is [0].
- The brightness of the live image (the video image shown before a picture is taken) does not change. Press the shutter button and check the brightness of the preview image (photographed still image).

Compensation is useful for the types of subject listed below.

Positive (+) Compensation

- Copying of printed text (black characters on white paper) (+1.5 EV)
- Backlit portraits (+0.6 to +1.5 EV)
- Very bright scenes (such as snowfields) and highly reflective subjects (+0.9 EV)
- Shots made up predominantly of sky. (+0.9 EV)

Negative (-) Compensation

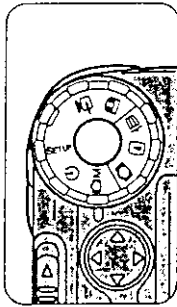
- Spill subjects, particularly against dark backgrounds (-0.6 EV)
- Copying of printed text (white characters on black paper) (-0.6 EV)
- Scenes with low reflectivity, such as shots of green or dark foliage (-0.6 EV)

Setting the Flash Power

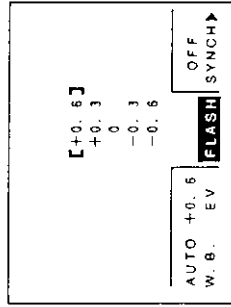
Use flash power adjustment to achieve the optimum flash brightness when the subject is very small in the picture or when you are using close-up flash photography for subjects such as a flower or business card.

1 Set the Mode dial to [OM].

- If the LCD monitor is switched off, press the [DISP] button.



2 Use the [◀] or [▶] button to select [FLASH].



3 Use the [▲] or [▼] button to set the flash brightness.

- [▲] : Increases the flash brightness.
- [▼] : Decreases the flash brightness.

There are 5 compensation levels (-0.6 to +0.6EV in approx. 0.3EV steps).

CAUTION

If you are shooting in dark conditions or if the subject is too far, pressing the [▲] button may not give a brighter picture.

4 Use the [EXE] button to confirm the setting.

NOTES

- The default setting is "0".
- The brightness of the live video image (video image prior to shooting) does not change.
- To check the flash brightness, press the shutter button and view the preview image (photographed still image).

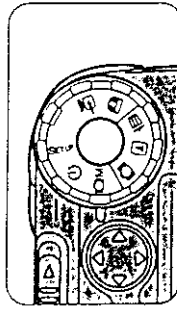
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Synchro Mode Setting

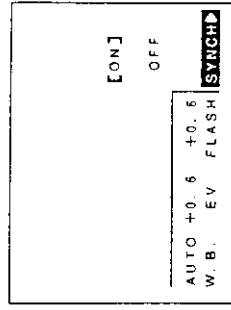
This mode is useful when you are shooting under artificial lighting (fluorescent lights, etc.), in backlit conditions, or when you are shooting a portrait against a night scene.

1 Set the Mode dial to [OM].

- If the LCD monitor is switched off, press the [DISP] button.



2 Use the [◀] or [▶] button to select "SYNCHRO".



3 Use the [▲] or [▼] button to select [ON].

4 Use the [EXE] button to confirm the setting.

NOTES

- The default setting is [OFF].
- If Synchro mode is set to [ON], the flash mode settings specified in [SETUP] are disabled. The only exception to this is Red-Eye Reduction mode, which remains enabled in Synchro mode.
- The "Brightness" and "Flash" settings specified in Manual mode are also ignored.

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Protecting Images

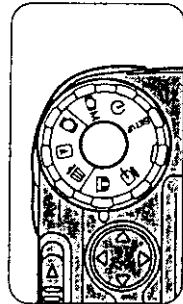
This feature assigns the read-only attribute to images to prevent them from being inadvertently erased.

CAUTION

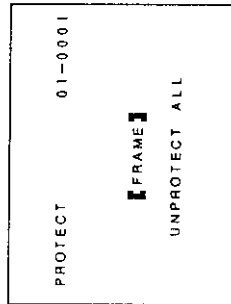
- When you format a SmartMedia card, all the images on the SmartMedia are erased, regardless of whether they are protected.
- To protect the entire card, refer to *AgWrite Protection* Ah. / P.19

Applying and Removing Single-Frame Protection

1 Set the Mode dial to [P]. The menu screen appears.



2 Use the [▲] or [▼] button to select [FRAME] and press the [EXE] button.

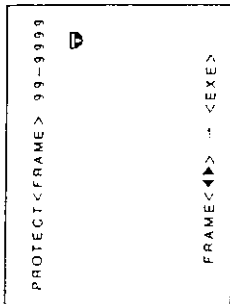


3 Use the [◀] and [▶] buttons to select the frames to be protected and then press the [EXE] button.

Press the [DISP] button to select frames in the same way as in 9-shot multi-frame playback.

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4 The protection icon appears next to the frame number to indicate that the frame is protected.



5 To remove the protection, perform steps 1 to 3 to select the image and then press the [EXE] button.

6 The protection icon no longer appears next to the frame number, indicating that the frame is not protected.

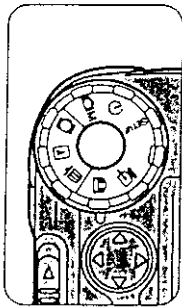
7 To apply or remove protection to another frame or frames, repeat the above procedure from step 3.

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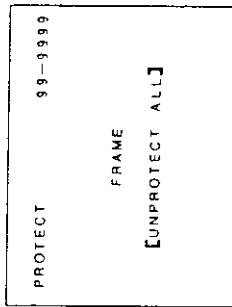
Removing Protection from All Frames

This function removes the protection from all protected frames.

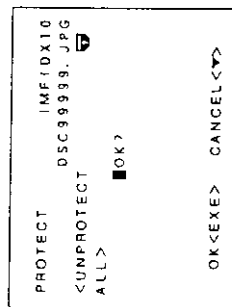
1 Set the Mode dial to [P]. The menu screen appears.



2 Use the [▲] or [▼] button to select [UNPROTECT ALL] and press the [EXE] button.



3 A confirmation message appears.



4 To remove the protection, press [EXE]. To cancel, press the [▼] button.

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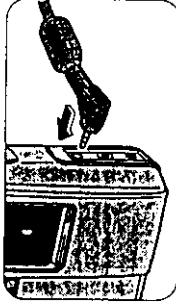
NOTES

If you are using the PC card adapter (sold separately), refer to the Owner's Manual for the card adapter.

CAUTION

- Install the software on your personal computer before you connect the camera and computer together.
- Switch the camera and personal computer off before you connect them together.
- The Auto Power Off function does not operate in PC mode.

1 Switch the camera off and plug one end of the connection cable into the DIGITAL socket on the camera.



CAUTION

Do not plug anything other than the special connection cable into the DIGITAL socket. This could cause a fault. Check also that the plug is inserted fully into the socket.

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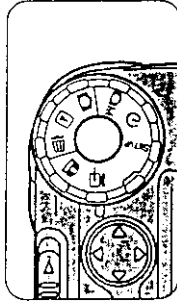
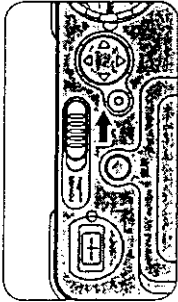
2 Connect the other end of the connection cable to the personal computer.

- Windows Any of the COM1 to COM4 ports
- Macintosh Modem or printer port

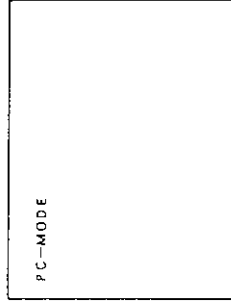
3 Switch on the personal computer.

PC-Mode (Downloading Images to a PC)

4 Switch on the camera and set the Mode dial to [P].



5 Operate the camera from the PC.
Start up the application.



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NOTES

Refer to the User's Guide for the application.

CAUTION

- Image data can only be exchanged between the CLIP-IT 50 and a personal computer using files with the file names DSCFOO01.JPG to DSCF9999.JPG (Exif-JPEG format).
- The Auto Power Off function does not operate in PC-mode.
- If the power is switched off during data transmission, the image data will not be received correctly.
- To switch the camera to another mode after using PC-mode, switch the camera off, select the new mode and then switch the camera back on.
- If you are taking pictures remotely, check that the lens cover is open.

Notes On Using SmartMedia With Personal Computers

- Initialize the SmartMedia in the camera.
- When a SmartMedia is initialized in the camera, a folder (directory) called "IM01FUJI" is automatically created. Image data is then recorded in this folder. Do not change or delete the folder (directory) names or file names on the SmartMedia from the personal computer as this will make it impossible to use the SmartMedia in the camera.
- Always use the camera to delete image data on a SmartMedia.
- To edit image data, copy the image data to the computer's hard disk and then edit the copied data.
- To record or erase image data on a SmartMedia card from the personal computer, use the Fujifilm PICTURE SHUTTLE Data Transfer Software (provided with the IF-CLAW3 or IF-CL/M3 Interface Set).

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Batteries

Note the points listed below when using batteries. Read the instructions and especially the safety notes for conventional and rechargeable batteries carefully to ensure that you use the batteries correctly.

Number of Available Frames

Reference

Number of Available Consecutive Shots

アルカリ乾電池	液晶モニター ON 状態	液晶モニター OFF 状態
	約 80 コマ	約 250 コマ

- The above figures are a guide to the number of consecutive shots that can be taken when the flash is used 50% of the time at room temperature. However, the actual number of available shots varies depending on the ambient temperature when the camera is used and the amount of charge in the battery.
- To avoid wasting battery charge, switch the camera off promptly when it is not being used.
- To increase the time for which your battery can be used in cold locations, warm the battery by placing it in your pocket and then load it into the camera just before you take pictures. If you are using a heating pad, take care not to place the battery directly against the pad.

Notes on Handling the Batteries

- Use only AA-size long-life Ni-Cd or alkaline batteries.
- Because batteries use a chemical reaction to generate voltage, low ambient temperatures can lower the voltage generated and shorten the life of the batteries. This is particularly true of alkaline batteries.
- The capacity of alkaline batteries varies depending on the brand. The life of some batteries may be considerably shorter than that of the batteries provided with the MX-500.
- Do not use manganese batteries.
- Manganese batteries have an extremely low capacity, and will either be unusable from the outset or have only a fraction of the life of conventional batteries.
- When replacing the batteries, always fit four new batteries.
- In the case of Ni-Cd batteries, 'new batteries' refers to batteries recently charged at the same time. In the case of alkaline batteries, it refers to batteries purchased recently in the same package.
- Do not use new batteries together with used batteries and do not use batteries of different types together.

OTHER

- Remove the batteries from the camera if it will not be used for a long period.
- If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.
- Always keep the contact terminals clean.
- Soiled terminals shorten the life of the batteries. If the batteries have not been used for a long period or if the terminals are soiled, load and remove the batteries several times to improve the terminal contact.
- Store the batteries in a cool dry place. If left for long periods in a hot location, the batteries will discharge and the battery life will be shortened.

Notes on Using the Batteries

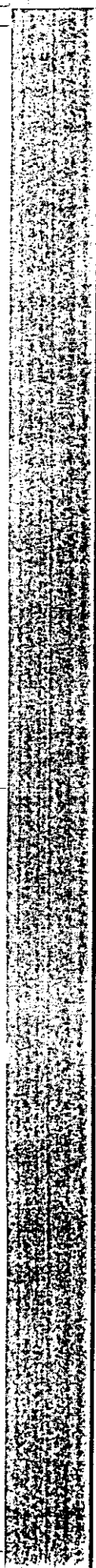
- If the batteries are used for a long period, the camera grip and the batteries themselves may become warm. This is not a fault. To take pictures over a long period, use the AC Power Adapter AC-5V (sold separately).

About the FNC-1 Ni-Cd Battery Charger

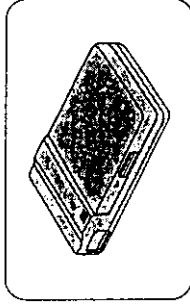
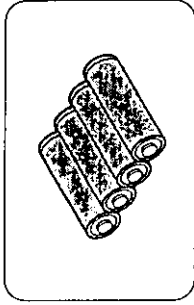
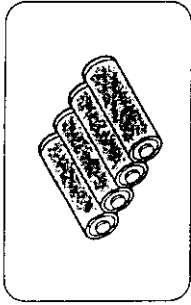
The FNC-1 Ni-Cd Charger can recharge 4 High-Power 100 Ni-Cd (KR-AA(HP)) batteries in about 10 hours (at room temperature).

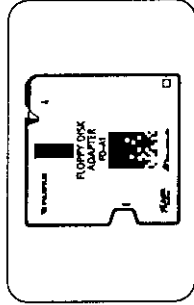
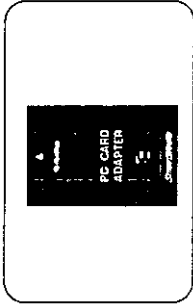
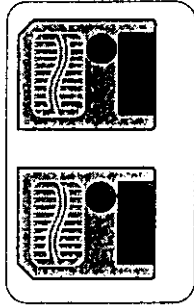
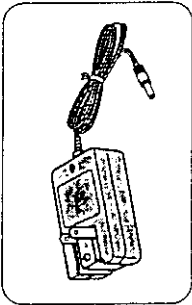
- Only use the charger to recharge Ni-Cd batteries. Do not attempt to recharge other types of battery.
- Batteries can be recharged in ambient temperatures between 0°C and 45°C. However, for optimum battery performance, recharge at temperatures between 0°C and 40°C.
- Use only a 100V power supply and do not use the charger with transformers intended for use overseas.
- Do not attempt to disassemble or modify the charger.
- Do not insert pins or other metal objects into the charger.
- Do not recharge batteries with the negative ⊖ and positive ⊕ poles reversed.
- Keep the charger dry.

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Notes on Using Your Camera Correctly

Be sure to read this information in conjunction with "Before You Use This Product (Safety Notes)" (→P.3) to ensure that you use your camera correctly.

- Places to Avoid**
 Do not store or use the camera in the following types of locations:
 - Very humid, dirty or dusty places
 - In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer. Extremely cold places
 - Places subject to strong vibrations
 - Places affected by smoke or steam
 - Places subject to strong magnetic fields (such as places near motors, transformers or magnets)
 - For long periods in contact with chemicals such as pesticides or next to rubber or vinyl products
- Do not expose the camera to sand.**
 The MX-500 is particularly adversely affected by sand. In sandy locations such as beaches or deserts, or in locations where there is windborne sand, ensure that the camera is not exposed to sand. This can cause faults that may be irreparable.
- Notes on Condensation**
 If the camera is carried suddenly from a cold location into a warm place, water droplets (condensation) may form on the inside of the camera or on the lens. When this occurs, switch the camera off and wait an hour before using the camera. Condensation may also form on the SmartMedia card. In this event, remove the SmartMedia and wait a short time before using it again.
- When the Camera is Unused for Long Periods**
 If you do not intend to use the camera for a long period, remove the batteries and the SmartMedia card before storing the camera.
- Cleaning Your Camera**
 - Use a blower brush remove dust from the lens and LCD surface and then wipe lightly with a soft, dry cloth. If any soiling remains, apply a small amount of lens cleaning liquid to a piece of Fujifilm lens cleaning paper and wipe gently.
 - Do not scrape the lens, LCD or viewfinder with hard objects as the surface scratches easily.
 - Clean the body of the camera with a soft dry cloth. Do not use volatile substances such as thinners, benzine or insecticide, as these may react with camera body and cause deformation or remove the coating.
- Using the Camera Overseas**
 When travelling overseas, do not place your camera in the check-in baggage. Baggage handling at airports may subject baggage to violent shocks, and the camera may be damaged internally even when no external damage is visible.

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Warning Displays

The table below lists the warnings that are displayed on the LCD.

Warning Displayed	Status	Explanation
	Flashing	The camera battery is low on charge. If Ni-Cd batteries are being used, power will fail soon.
NO CARD	Flashing	No SmartMedia is loaded, or it is loaded incorrectly.
CARD NOT INITIALIZED	Flashing	The SmartMedia is not formatted.
CARD ERROR	Flashing	The SmartMedia is damaged. The SmartMedia format is incorrect.
CARD FULL	Flashing	All the frames on the SmartMedia contain recorded images.
PROTECTED CARD	Flashing	The SmartMedia is write-protected.
FRAME ERROR	Flashing	An attempt was made to playback incorrectly recorded data.
UNMATCHED DATA	Flashing	An attempt was made to playback a frame not recorded on this camera. The SmartMedia was removed during recording, playback, erasing or copying.
FILE No. FULL	Flashing	The frame number has reached 99999.
	Flashing	Because the flash is set to Suppressed Flash mode and the shutter speed is slow, there is a strong likelihood of camera shake.
PROTECT!!!	Flashing	A protected frame was erased.

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Troubleshooting

● Before you decide the camera is faulty, check the following once more:

Problem	Cause	Remedy
No power.	<ul style="list-style-type: none"> The battery is exhausted. The AC power adapter plug has come out of the power outlet. The Mode dial has been moved to another setting. 	<ul style="list-style-type: none"> Load new batteries. Plug the adapter back in. Set the Mode dial to the correct setting.
Power cuts out during operation.	<ul style="list-style-type: none"> The battery is exhausted. You are using the camera in hot conditions and the camera's safety mechanism has been triggered. 	<ul style="list-style-type: none"> Load new batteries. Wait until the camera has cooled down and then switch it back on.
Battery runs out quickly.	<ul style="list-style-type: none"> You are using the camera in extremely cold conditions. Manganese batteries are being used. New and used batteries or batteries of different types are being used together. The terminals are soiled. 	<ul style="list-style-type: none"> Put the batteries in your pocket or another warm place to heat them and then load them into the camera just before you take a picture. Use AA-size long-life Ni-Cd or alkaline batteries. Alkaline batteries are recommended. (→ P.76) Load four new batteries of the same type. Wipe the battery terminals with a clean, dry cloth.
No photograph is taken when the shutter button is pressed.	<ul style="list-style-type: none"> No SmartMedia is loaded. The SmartMedia is loaded the wrong way round or upside down. All the frames on the SmartMedia contain recorded images. The SmartMedia is write-protected. The SmartMedia is not formatted. The SmartMedia is damaged. The Auto Power Off function has switched the camera off. 	<ul style="list-style-type: none"> Load a SmartMedia. Load the SmartMedia correctly. Load a new SmartMedia or erase a frame. Remove the write-protection. Format the SmartMedia. Load a new SmartMedia. Switch the camera on.

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Problem	Cause	Remedy
No photograph is taken when the shutter button is pressed.	<ul style="list-style-type: none"> The batteries are depleted. The Mode dial has been moved to another setting. 	<ul style="list-style-type: none"> Replace the batteries. Set the Mode dial to the correct setting.
You can't use the flash to take pictures.	<ul style="list-style-type: none"> The flash is set to Suppressed Flash mode. The focus selector is set to Macro mode. 	<ul style="list-style-type: none"> Set the flash to Auto, Red-Eye Reduction or Forced Flash mode. Set the focus selector to Normal mode, or select Forced Flash mode.
The flash will not charge.	<ul style="list-style-type: none"> No compatible SmartMedia is loaded. The camera is set to Suppressed Flash mode. The battery is exhausted. 	<ul style="list-style-type: none"> Load a new SmartMedia, erase a frame, or remove the write-protection. Set the flash to Auto, Red-Eye Reduction or Forced Flash mode. Load a new battery.
The playback image is too dark even though I used the flash.	<ul style="list-style-type: none"> The subject is too far away. 	<ul style="list-style-type: none"> Move closer to the subject.
The playback image is blurred.	<ul style="list-style-type: none"> The lens is dirty. 	<ul style="list-style-type: none"> Clean the lens.
I cannot format the SmartMedia.	<ul style="list-style-type: none"> The SmartMedia is write-protected. 	<ul style="list-style-type: none"> Remove the write-protection.
You cannot erase all the frames.	<ul style="list-style-type: none"> The frame is protected. 	<ul style="list-style-type: none"> Remove the frame protection.
Nothing happens when I use the camera buttons and switches.	<ul style="list-style-type: none"> Camera malfunction. 	<ul style="list-style-type: none"> Remove the power source (batteries) and then re-insert them and try again.

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Specifications

*These specifications are subject to change without notice.
Fujifilm Photo Film Co. Ltd. apologizes for any inconvenience resulting from errors in the information given here.

System

Model type
Recording media
Number of frames recorded

Digital camera
SmartMedia (3.3V or 5V)
Using MG-2

Approx. 30 (Normal: 640 x 480 pixels, 1/11 compression)
Approx. 22 (Fine: 640 x 480 pixels, 1/8 compression)
Using MG-4/4S

Approx. 60 (Normal: 640 x 480 pixels, 1/11 compression)
Approx. 44 (Fine: 640 x 480 pixels, 1/8 compression)
Using MG-8S

Approx. 124 (Normal: 640 x 480 pixels, 1/11 compression)
compression)

Approx. 90 (Fine: 640 x 480 pixels, 1/8 compression)
Using MG-16S

Approx. 250 (Normal: 640 x 480 pixels, 1/11 compression)
Approx. 180 (Fine: 640 x 480 pixels, 1/8 compression)

JPEG standard (Exif)
640 x 480 pixels

1/4-inch CCD square pixel VGA full-pixel read format
TV-Fujinon fixed-focus F3.1/F8

f = 4.2 mm (equivalent to 40 mm on a 35mm camera)
Reverse-Galileo type; Frame coverage: 80%

Equivalent to ISO 100

TTL metering, AE (exposure compensation available in Manual mode)

Auto-selected (selectable in Manual mode)

Normal: 0.7 m to infinity;

Variable speed, 1/4 to 1/5000 sec.

10 sec. timer clock/Erase modes Single-frame erase; all-frame erase; SmartMedia initialization

1.8 inch, D-TFD7 70,000 pixels

Serial control-type flash using a flash control sensor

Effective range: Approx. 0.7 m to 3.0 m (at F3.5 without pre-flash)

Flash modes: Auto, Red-Eye Reduction, Forced Flash, Suppressed Flash

Recording format
Scanning resolution
Pickup Elements
Lens
Focal distance
Viewfinder
Sensitivity
Exposure control

White balance
Focal range
Electronic shutter
Self-Timer

LCD
Flash

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Input/Output Terminals

Video Output
Digital (RS-232C)

DC Input

Mini jack (1), 1 Vpp, 75Ω, unbalanced, synchronized negative with a personal computer
Stereo mini-jack (Ø2.5 mm) (1) for image data input/output
Socket for specified AC power adapter (sold separately)

Power Supply and Others

Power supply voltage

Conditions for use

Camera dimensions (W/H/D)

Camera mass (weight)

Accessories

Optional Accessories

4 AA-size long-life Ni-Cd or alkaline batteries
Or specified AC Power Adapter (sold separately)
Temperature: 0°C to +40°C; 80% humidity or less (no condensation)

110 x 77 x 33 mm (not including accessories and attachments)

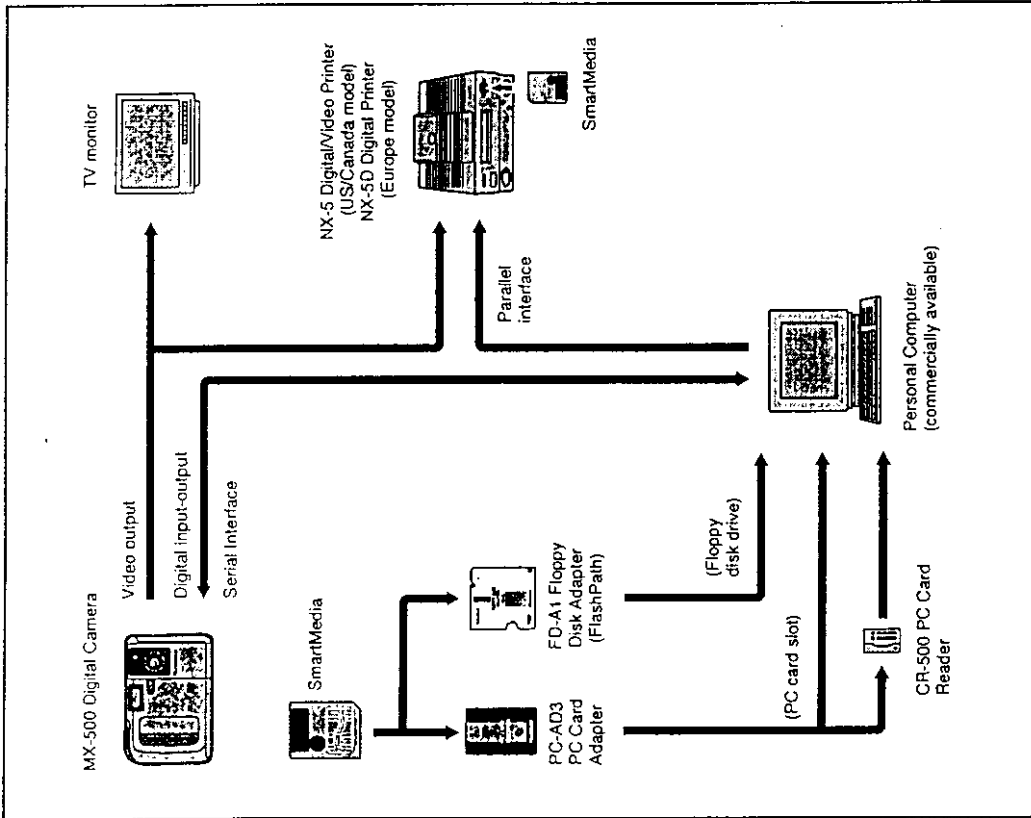
Approx. 250 g (not including accessories, batteries or SmartMedia)
See P. 14

See P. 78

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System Expansion Options

By using the MX-500 together with other optional Fujifilm products, your system can be expanded to fill a wide range of uses.



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Safety Notes

- Ensure that you read this Owner's Manual carefully before you use your MX-500 camera so that you use your camera correctly.
- Also, always read the Owner's Manual, and particularly the Safety Notes, for any connected devices, such as the AC power adapter or other accessories, to ensure that you also use these devices correctly.
- After reading this Owner's Manual, always keep it close at hand for easy reference.

About the Icons

A number of icons are displayed both in this Owner's Manual and on the product. These icons are intended to facilitate safe and correct use of the product, to prevent injury to yourself or anyone else, and to prevent damage to equipment or other objects. These icons and their meanings are explained below. Ensure that you fully understand these warnings before you read this manual.



WARNING

Indicates that, if this warning is ignored, improper handling of the product may cause death or serious injury.



CAUTION

Indicates that, if this warning is ignored, improper handling of the product may cause personal injury or material damage.

Examples of Icons



Triangular icons notify the user of information requiring attention. Specific details of the information are indicated graphically inside the icon. (The icon at left indicates that the user must beware of electric shocks.)



Circular icons with a diagonal bar notify the user that the action indicated is prohibited. Specific details of the prohibited action are indicated graphically in or beside the icon. (The icon at left indicates that the device must not be disassembled.)



Filled circles notify the user that an action must be performed. Specific details of the required action are indicated graphically in the icon. (The icon at left indicates that the device must be unplugged from the power socket.) Always observe these instructions.

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WARNING

- Do not use this camera when it is emitting smoke, is unusually hot to the touch, is emitting any unusual odor or noise, or is in any other abnormal state. Use of the camera in any of these situations may cause a fire or electric shock. Stop using the camera immediately, switch the camera off, and then disconnect the power source (batteries or AC power adapter). (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) After checking that smoke is no longer being emitted, contact your Fuji dealer or your local authorized Fuji service facility and request repairs. Never attempt to repair this camera yourself as this is dangerous.



Unplug from power socket.



- Do not use the camera if any water has entered the camera. Switch the camera off, and then disconnect the power source (batteries or AC power adapter). (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) Then contact your Fuji dealer or your local authorized Fuji service facility. Do not continue to use the camera as this may cause a fire or electric shock.



- Do not use the camera if any foreign objects have entered the camera. Switch the camera off, and then disconnect the power source (batteries or AC power adapter). (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) Then contact your Fuji dealer or your local authorized Fuji service facility. Do not continue to use the camera as this may cause a fire or electric shock.

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Safety Notes

WARNING

● If the camera has been dropped or the camera case has been damaged, switch the camera off, and then disconnect the power source (batteries or AC power adapter). (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) Then contact your Fuji dealer or your local authorized Fuji service facility. Do not continue to use the camera as this may cause a fire or electric shock.

● Do not place the camera in unstable locations such as on a wobbly table or sloping surface where the camera may fall or tip over and cause injury.

● Take care that the camera is not exposed to moisture and that water does not get into the camera. Take particular care when it is raining or snowing or when you are using the camera at the beach or near water. Water in the camera may cause a fire or electric shock.

● Do not insert or drop metallic or inflammable foreign objects into the camera through access points such as the SmartMedia card slot. This may cause a fire or electric shock.

● Do not attempt to modify this camera. This may cause a fire or electric shock.



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WARNING

● Do not remove the camera casing. This may cause an electric shock. Internal inspection, maintenance and repairs should be carried out by your Fuji dealer or local authorized Fuji service facility.

Do not disassemble.



● Do not use this camera in the bathroom. This may cause a fire or electric shock.



Do not use in wet areas.

● Do not touch the power plug during a thunderstorm if you are using the AC power adapter. This may cause an electric shock.



Do not touch.

● Never use this camera, look through the viewfinder, or watch the LCD (liquid crystal display) while you are operating a moving car, motorcycle or bicycle. This may cause a traffic accident.



● Do not attempt to charge the alkaline battery. This may cause the battery to split or leak, causing fire or injury.



● Do not carry or store a battery with objects such as metal pens, necklaces, coins or hairpins. This could short circuit the positive + and negative - poles of the battery. This may cause the battery to split or leak, resulting in fire or injury.



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Safety Notes

WARNING

- Do not heat or attempt to disassemble a battery, and do not place a battery in water or in a fire. Any of these may cause the battery to split or leak, cause fire or injury.
- Do not subject a battery to strong impacts, such as hitting it with a hammer, stepping on it or dropping it. Any of these may cause the battery to split or leak, cause fire or injury.
- Use only the specified batteries or AC power adapter specified for use with this camera. The use of other power sources may cause a fire.



CAUTION

- Do not place this camera in a damp or dusty location. This may cause a fire or electric shock.
- Do not place this camera in a location affected by oil fumes or steam, such as near a cooking stove or humidifier. This may cause a fire or electric shock.
- Do not leave this camera in places subject to extremely high temperatures, such as in a sealed vehicle or in direct sunlight. Exposure to high temperatures may adversely affect the camera case and internal components and cause a fire.



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CAUTION

- Do not cover or wrap the camera or the AC power adapter with a cloth or quilt. This may cause heat to build up and distort the case or cause a fire. Always use the camera and its accessories in well-ventilated locations.
- Do not move the camera while it is switched on. (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have switched off the camera.) Then ensure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or electric shock.
- Take care that the camera is not bumped when it is being moved. This may cause the camera to malfunction.
- When handling the camera, always unplug it from the power source (batteries or AC power adapter) for safety. (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) Failure to do so could result in an electric shock.
- When leaving the camera unused for long periods, such as during a vacation, always unplug the camera from the power source (batteries or AC power adapter) for safety. (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera.) Failure to do so could result in a fire.



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CAUTION

● Contact your Fuji dealer or local authorized Fuji service facility to request cleaning of the interior of the camera every two years. Allowing dust to accumulate in the camera for long periods without cleaning the camera interior may cause a fire or electric shock.
Cleaning is best performed prior to seasonal periods of high humidity.
Consult with your Fuji dealer or local authorized Fuji service facility for information on the cost of cleaning your camera.



● Do not use batteries other than those specified for use with your camera.
The use of unsuitable batteries may result in the batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.



● When fitting a battery into the camera, check the polarity markings on the battery (+ and -) to ensure that you insert the battery correctly.
Incorrect battery polarity may result in the batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.



● Remove the batteries if the camera will not be used for an extended period of time. The batteries may leak and cause a fire, injury or soiling of the battery compartment.
If the batteries leak, clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid.



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