



**RICOH**

Digital Camera

**RDC-4300**

**Operation Manual**

Read this manual carefully before using your digital camera to understand its proper use. Please keep the manual handy for future reference.

**<NTSC>**

**RICOH CO., LTD.**  
Ohmori NM Building  
1-1 Ohmori-Kita 2-chome  
Ota-ku, Tokyo  
143-0016 Japan

# Introduction

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Thank you for purchasing a Ricoh digital camera. This manual explains the correct handling procedures and precautions for your camera. Please read it thoroughly before using the camera to obtain a good understanding of the equipment and its functions. Keep the manual handy for future reference.

Ricoh Co., Ltd.

## Test Shots

Confirm that your camera is recording pictures correctly by taking several test shots.

## Copyright Compliance

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## Exclusion of Liability

The manufacturer is not responsible for the loss of data, or the failure to record such data, arising from a malfunction of the equipment.

## Warranty Terms

This product is made to local specifications and all warranty claims are honored in the country of purchase. Should the product malfunction while you are abroad, the manufacturer is not responsible for the cost or availability of service in countries not covered by the warranty.

## Radio-Frequency Interference

Operating this product in the direct vicinity of other electronic devices may inhibit the performance of both devices. In particular, operating the product close to televisions, radios and similar devices may lead to static interference. If interference occurs, follow the procedures below.

- Move the product as far away as possible from the TV, radio or other device.
- Reorient the TV or radio antenna.
- Plug the devices into separate electrical outlets or circuits.

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# Camera Features

## Simple Operation

With this camera, taking a picture is as easy as viewing the composition in the LCD monitor and pressing the shutter release button. The photographed image will record on the SmartMedia memory card.

## Immediate Confirmation

The camera allows you to check an picture file immediately after recording simply by switching to replay mode. Moreover, it can display single images in magnified form (zoom playback) or a set of nine images.

## 180° Rotating Lens and Flash

The 180° rotating lens unit and flash allow you to freely select a convenient angle for each shot without craning your neck.

## Switches between Quality/Volume Modes at Any Time

The RDC-4300 adapts to your changing requirements, readily switching between the super-fine SF mode for top-quality imaging or the economic E mode for more recording capacity.

## Flexible Zoom Lens


The 3X zoom lens lets you compose a wide range of pictures, from close-ups to scenery shots, without moving your position.

## Natural Color Images

The white balance function assists in capturing a subject in its natural colors regardless of the light source, indoors or out.

## Close-Up Shots

In macro mode - particularly suited for flower and insect close-ups - the camera takes detailed shots as close as 8 centimeters (3.1 inches)\* from the subject.

\*The mode dial must be set to the macro mode [  REC ].

## Shows Your Images on a TV Screen Too

With the AV interface cable provided, the camera can screen your picture files on a TV screen. In addition, you can connect to a video deck or video printer to dub images on videotapes or to make full-color prints.

## Compact for Easy Portability

The camera's lightweight, compact construction makes it easy to take just about anywhere. In its hard case (optional), your camera can safely accompany you on all your travels abroad or at home.

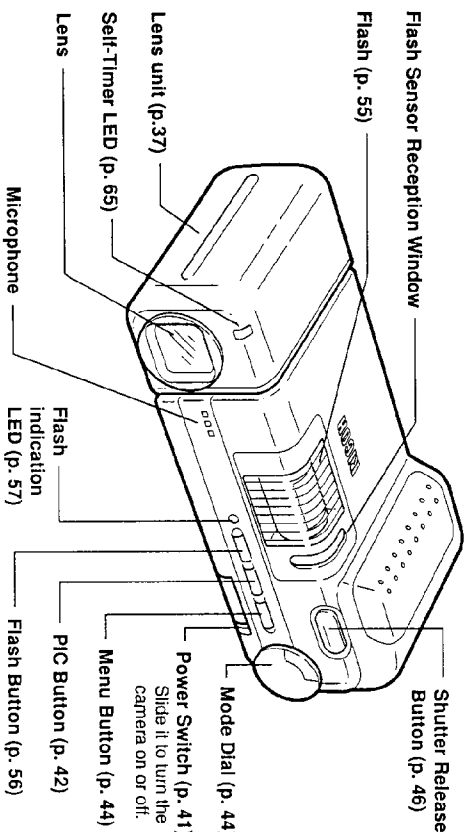
## Interchanges Data with Computers

The software bundled with the camera marries the power of computers with digital photography, simplifying the transfer of picture data. Load images onto a computer to output with a color printer or color copier.

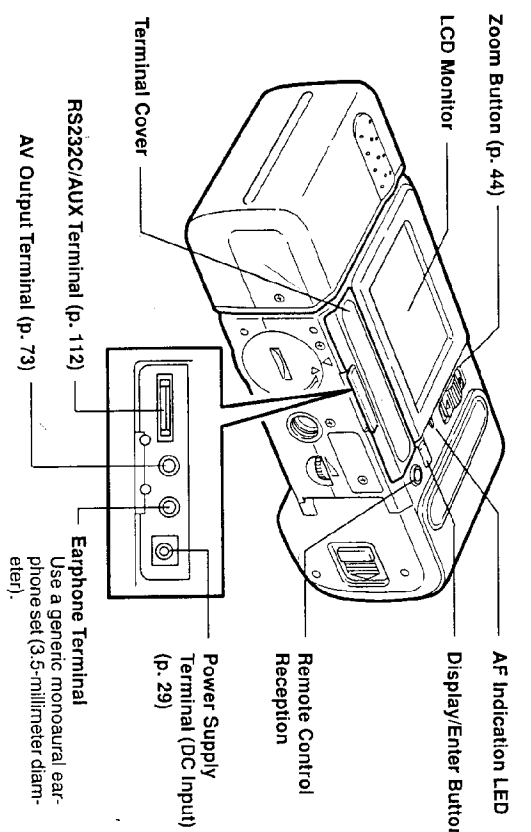
# Part Names

## ■ Camera Body

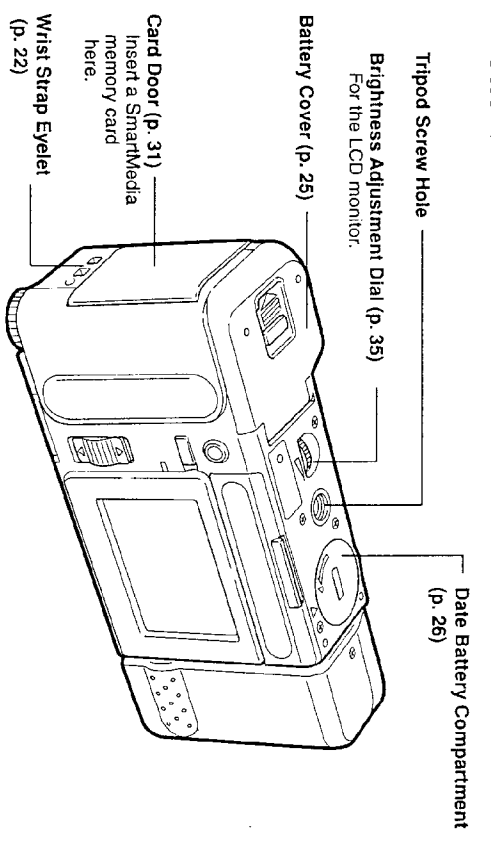
- Front -



- Back -

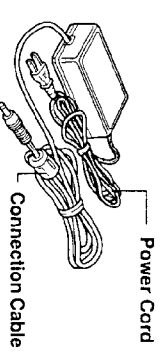


- Bottom -

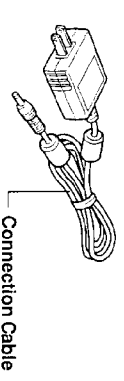


## ■ AC Adapters (optional)

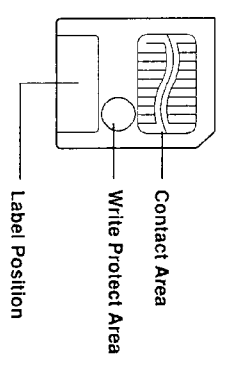
• AC-2 (100V-240V)



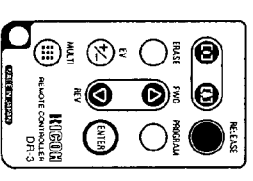
• AC-2100 (100V)



## ■ SmartMedia Memory Card



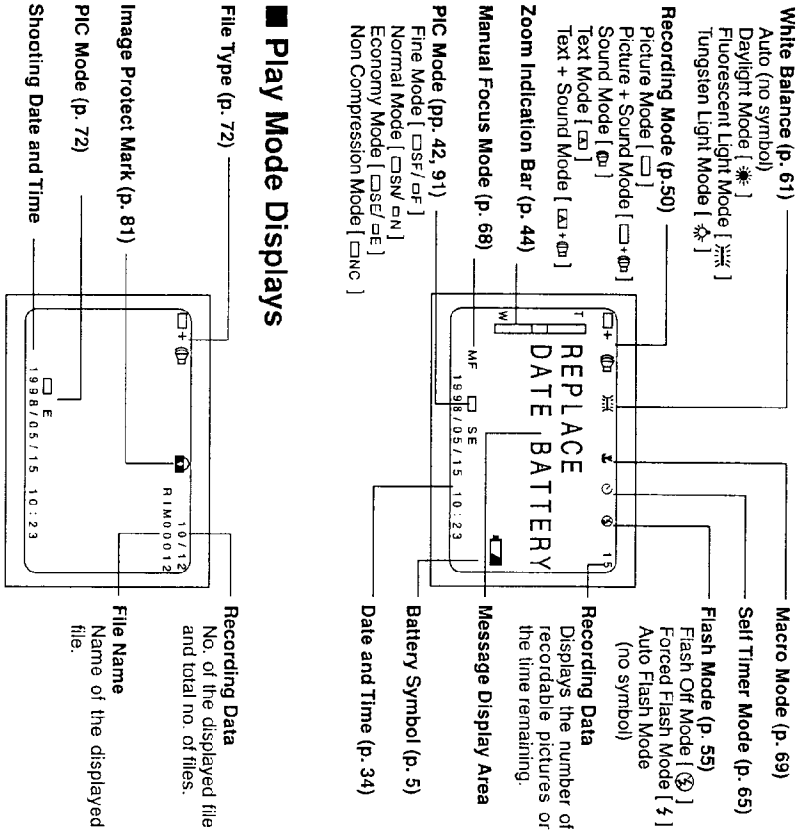
## ■ Remote Control (optional)



# Explanation of LCD Monitor Displays

The LCD monitor displays symbols and figures revealing the camera's status, such as the battery charge, number of recordable pictures and mode settings.

## ■ Recording Mode Displays



## ■ Play Mode Displays

- Note:**
- For illustration purposes, all the symbol categories are simultaneously shown above. During actual camera operations, only relevant symbols display.
  - The camera will automatically power down (auto power off) to conserve the battery if left untouched (no buttons or switches manipulated) for approximately 5 minutes. Slide the power switch on to resume use.
  - You can disable the auto power off function (p. 89).
  - The auto power off function is automatically disabled while the camera is powered by an AC adapter.

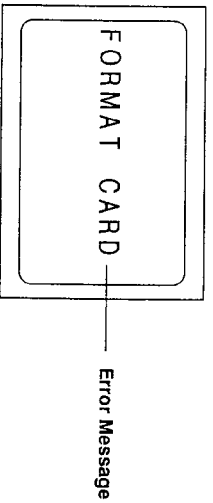
## ■ Warning Codes

If warning codes appear on the camera's LCD monitor, respond as directed below.

Warning Message	Display Style	Recommended Response	Reference Page
[🔋]	Steady	Indicates low battery. Keep replacement batteries handy.	p. 23
REPLACE DATE BATTERY	Flashing	Indicates low or missing date battery. If message displays for approximately 2 seconds at startup, Replace or install the date battery.	p. 26
INSERT CARD	Flashing	No SmartMedia memory card detected at startup. Insert a card.	p. 31
WRITE PROTECTED	Flashing	Write-protected SmartMedia memory card detected at startup. To record or erase images, remove the write protect pad before use.	p. 30
PROTECTED FILE FORMAT CARD?	Flashing	You attempted to erase a protected file. Change the protection setting before erasing the file.	p. 81
UNMATCHED FILE	Flashing	You attempted to play an unplayable file.	p. 74
FILE NUMBER OVER	Flashing	No more files can be recorded. Insert a fresh SmartMedia memory card to begin recording.	p. 31
NO IMAGE	Flashing	No playable files detected. Insert a SmartMedia memory card on which files are recorded.	p. 31

## ■ Error Messages

If error messages appear on the camera's LCD monitor, respond as directed below.



Error Message	Recommended Response	Reference Page
FORMAT CARD	Unformatted SmartMedia memory card in camera. Format card with camera before recording images.	p. 32
UNABLE TO RECORD	Recording failed. Re-record because this data can't be correctly replayed. If error persists, turn off power once before retrying or reset camera.*	p. 41, 46
UNABLE TO ERASE	Erase failed. Restart camera and take a single test shot. Erase the test shot. The previous file should also automatically erase. If the error persists, reset camera.*	p. 41, 83
UNABLE TO FORMAT	Write-protected SmartMedia memory card detected at startup. To record or erase images, remove the write protect pad before use.	p. 32
UNABLE TO PLAYBACK	Playback failed. Restart or reset camera.*	p. 41
UNABLE TO TRANSMIT	Data transmission failed. Restart or reset camera.*	p. 41

\* Reset Method: Remove both the main and date batteries and then slide the power switch on. The camera will reset to the default factory settings.

## Menus

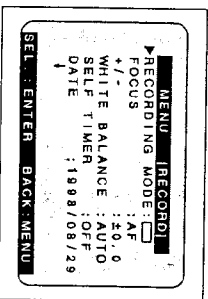
The camera features three menus. The menus are used, respectively, to adjust settings for recording, playing and erasing picture and sound files.

### ■ Record Menu

Slide the power on, set the mode dial to either [REC] setting and press the menu button. When you finish with the record menu, press the menu button a second time to conclude.

**Note:**

*This operation can be performed with the mode dial set to either the [ ] setting or [ ] setting in the REC section.*



#### Recording Mode:

Switches between recording modes, such as picture or sound modes (p. 50).

#### Focus:

Switches between auto and manual focus (p. 68).

#### Exposure Compensation:

Sets the exposure compensation (p. 59).

#### White Balance:

Switches between the auto and manual white balance settings (p. 61).

#### Self Timer:

Switches the self timer on and off (p. 65).

#### Date:

Sets the date and time (p. 34).

#### Display:

Sets the time interval after which the LCD monitor shuts down in power saving mode (p. 88).

#### Keep Settings:

Saves the camera settings (p. 92).

#### S Mode:

Sets the shutter speed to faster settings for shooting in dark areas (p. 70).

#### Beep:

Sets the electronic beep to sound or not sound (p. 90).

#### Auto Power Off:

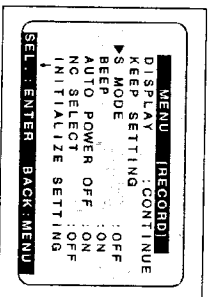
Switches the auto power off function on or off (p. 89).

#### NC Select:

Switches between displaying and hiding the non-compression option among the PiC modes (p. 91).

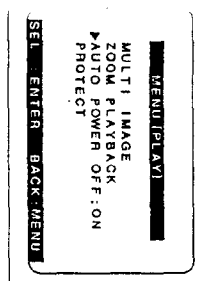
#### Initialize Settings:

Resets to default settings at startup (p. 93).



## 1 Play Menu

Slide the power on, turn the mode dial to [Play] and press the menu button. When you finish with the play menu, press the menu button a second time.



**Multi Image Playback:** Displays nine images at once on the LCD monitor (p. 79).

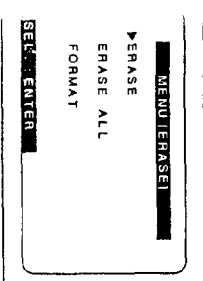
**Zoom Playback:** Displays images at twice the original magnification in the SF, SN, SE and NC modes (p. 78).

**Auto Power Off:** Activates or disables the auto power off function (p. 89).

**Protect:** Switches a file protection setting on or off to prevent or enable erasure (p. 81).

## 1 Erase Menu

Slide the power on, turn the mode dial to [Erase] and press the menu button. When you finish with the erase menu, press the menu button a second time.



**Erase:** Erases selected files one at a time (except protected files) (p. 83).

**Erase All:** Erases all the files from the card (except protected files) (p. 84).

**Format:** Formats a SmartMedia memory card (including protected files) (p. 32).

**Important Note:** The [PC] setting on the mode dial is used to exchange files with a computer. For more information on this subject, refer to the Readme file or Help menu topics of the DU-4 software.

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## Basic Operation/Quick Reference

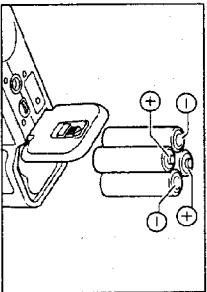
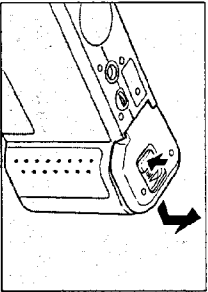
This section describes the minimum procedures required for you to start taking great pictures with the Ricoh RDC-4300 digital camera. For the full treatment of each topic, please read the pages referenced below.

### Preparations

#### Installing Batteries (pp. 23-29)

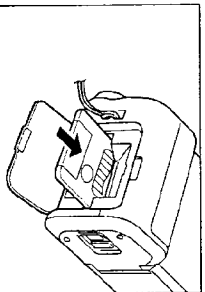
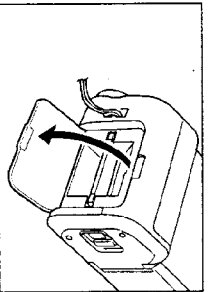
- 1 Load the batteries into the camera as shown.

You can also power the camera with the AC adapter, connecting it to the camera first and then the electrical outlet (p. 28).



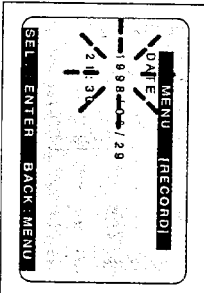
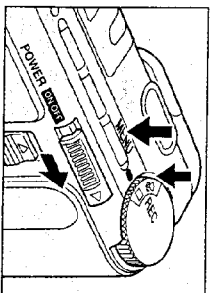
#### Inserting a SmartMedia Memory Card (pp. 30-33)

- 1 Confirm that the camera power is off.
- 2 Open the card cover and insert a SmartMedia memory card as shown. If you are using a new SmartMedia memory card, you must first format (initialize) the card with the camera (p. 32).



#### Setting the Date and Time (pp. 34-35)

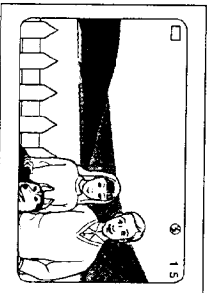
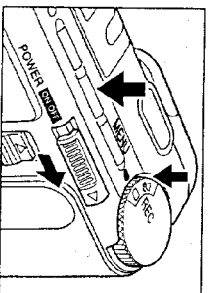
- 1 Slide the power switch on.
- 2 Turn the mode dial to one of the [REC] options and press the menu button.
- 3 Slide the zoom button to select the [Date] option and press the enter button.
- 4 Slide the zoom button to change the value of the flashing date field.
- 5 Press the enter button. Repeat steps 4 and 5 on the remaining fields. The next field will automatically begin flashing after you press the enter button.
- 6 After you have set the value for the minute field, press the enter button to conclude.





### Shooting

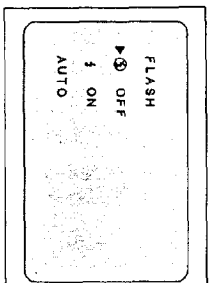
#### Basic Shooting Procedures (pp. 40-47)

- 1 Slide the power switch on and turn the mode dial to one of the [REC] options.
- 2 Select a PIC mode by pressing the PIC button.
- 3 Select a recording mode.
  - 1) Display the record menu by pressing the menu button, select [Recording Mode] and press the enter button.
  - 2) Select among the recording modes by sliding the zoom button and pressing the menu button.
  - 3) Press the menu button a second time to clear the display.
- 4 Slide the zoom button to select the appropriate zoom setting for your composition.
- 5 Press the shutter release button to take the picture.



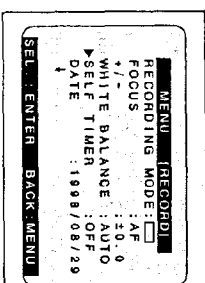
## Changing Flash Settings (pp. 55-58)

- 1 Turn the mode dial to one of the [REC] positions.
- 2 Press the flash mode button repeatedly until your choice is selected. You may choose from the flash off [  ], forced flash [  ] or the auto flash modes.
- 3 Press the shutter release button to take the picture.



## Using the Self Timer (pp. 65-66)

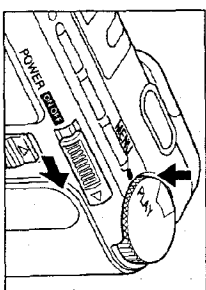
- 1 Turn the mode dial to one of the [REC] positions and press the menu button.
- 2 Slide the zoom button to select the [Self Timer] option.
- 3 Press the enter button and change the setting to [On]. Press the menu button. The self timer function is now active.
- 4 Press the shutter release button to start the self timer and take the picture. The self timer LED will flash for approximately 10 seconds before it activates the shutter.



## Playback

### Playing a File (pp. 74-81)

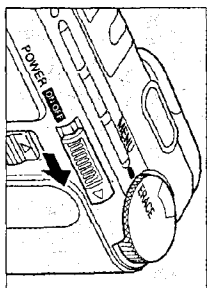
- 1 Slide the power switch on and turn the mode dial to the [Play] option.
  - 2 Slide the zoom button to select the image you wish to view.
- You can take advantage of the zoom playback to magnify an image or the multi image playback to display nine images on the monitor at once (pp. 78-79).



## Erasing

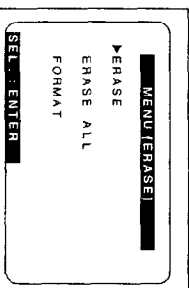
### Erasing a File (pp. 82-84)

- 1 Slide the power switch on and turn the mode dial to [Erase].



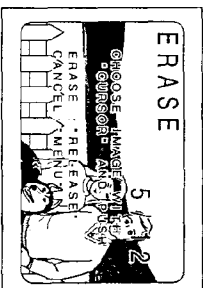
- 2 Slide the zoom button to select an erasing option and press the enter button.

For instructions on the format option for erasing see the section entitled Formatting a SmartMedia Memory Card (p. 32).



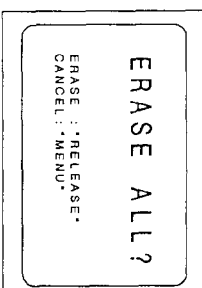
- If You Selected the [ERASE] Option.

- 3 Slide the zoom button to select the target image and press the shutter release button. Repeat step 3 as many times as required to delete additional images one by one.



- If You Selected the [ERASE ALL] Option

- 3 Press the shutter release button.



Please note that erased files cannot be recovered. Check each card's contents before you start to delete files.

# Safety Precautions

## Display

Various messages are displayed for this manual and product to enable you to use the product safely and prevent unexpected danger to people and damage to property.

**Warning** This symbol indicates operations which may result in a serious injury or even death if this message is ignored and incorrect operation is performed.

**Caution** This symbol indicates mishandling that may cause injury to the users as well as or damage to objects if this message is ignored.

## Display Example

**i** The **i** symbol indicates the contents of forced or other indicated operations.

**⊘** Indicates a warning of a prohibited operation.  
**⊘** Specifically prohibited items are indicated in this warning.

- Display example
- Meaning: Touch prohibited.
- **⊘** Meaning: Disassembly prohibited.

Observe the following precautions in order to use this equipment safely.

## Warning



**i** Turn off the power immediately if a fire, strange smell or abnormal condition occurs. Remove the batteries carefully, being careful to avoid electrical shock or burning. Always remove the electrical plug from the wall outlet when the power is supplied from an electrical outlet. Fire or shock may result otherwise. Contact your nearest service office. Do not continue using this equipment when it is damaged or not operating correctly.

**i** Turn off the power immediately if foreign matter (metallic objects, water or fluid, etc.) enter the internal parts. Remove the batteries, being careful to avoid electrical shock or burning. Always remove the electrical plug from the wall outlet when the power is supplied from an electrical outlet. Fire or shock may result otherwise. Contact your nearest service office. Do not continue using this equipment when it is damaged or not operating correctly.

## Warning



- When the LCD monitor is damaged, be careful not to touch the fluid inside the display. If any of the following conditions occur, perform the appropriate countermeasures immediately.
  - If liquid crystals contact the skin, wipe it off the skin and flush the affected area with plenty of water, then wash the area thoroughly with soap and water.
  - If any fluid gets in your eyes, rinse the eyes out with clean water for at least 15 minutes and contact a doctor immediately.
  - If someone drinks the fluid in the display, rinse out the mouth thoroughly with water and drink a large quantity of water and induce vomiting. Then, contact a doctor immediately.



- Observe the following precautions to prevent the batteries from leaking, exploding, catching fire or breaking.
  - Never use any type of batteries that are not specifically recommended for use with this camera.
  - Never dispose of the batteries in a fire, short-circuit the terminals, attempt to disassemble, heat, or recharge the batteries. (Only NiCad or nickel-metal-hydride (NiMH) batteries can be recharged.) Doing so may damage the batteries and cause a fire, injury or environmental contamination.
  - Do not use batteries incorrectly, such as batteries of a different type or name, batteries of a different manufacturer, or old batteries mixed with new batteries.
  - Be sure to maintain the correct polarity (positive [+] and negative [-] poles) when inserting the batteries.
  - Do not solder the batteries. This may damage the batteries and cause a fire, injury or environmental contamination.



- When using rechargeable batteries, do not mix them with other types of batteries or batteries in another charged condition.



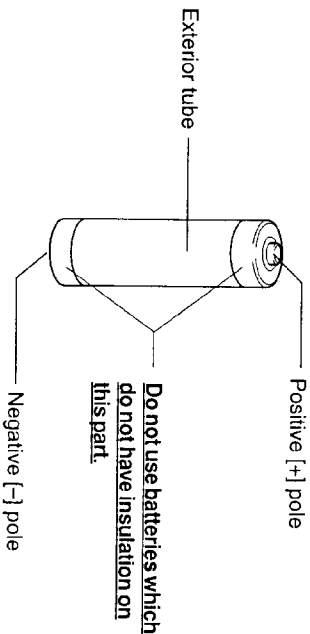
- Be especially careful to store the batteries used in this product in a location which is not accessible to infants or children, to prevent the batteries from being swallowed accidentally. Contact a doctor immediately if the batteries are swallowed accidentally. This may result in severe personal injury.

**Warning**



Do not use batteries which are in the following conditions as this may lead to leaking, heat generation, fires, explosions or short circuits.

- Do not use batteries which do not have insulation around the negative [-] pole.



- Do not use batteries of which the exterior tube is either broken or peeling off.



- Never leave this product within the reach of infants or children. This condition may cause an accident because infants and children cannot understand the contents described in the sections Safety Precautions and Usage Precautions.



- Do not touch the inside of the camera with your hand because if may be exposed to the internal components due to falling or other damage. The internal high-voltage circuits may cause an electrical shock. Remove the batteries right away, being careful to avoid electrical shock or burns. When the unit is damaged, contact the store where you purchased the product or the service office.



- Never attempt to disassemble, repair or modify the camera by yourself. There are internal high-voltage circuits which may cause severe electrical shock.



- Never use the camera in the bathtub or shower. This may cause fire or electrical shock.

**Warning**



- Do not use the unit near flammable gas, gasoline, benzene, thinner, etc. This may cause an explosion, fire or burns.
- Do not use the camera in an airplane or other location where usage is restricted. Using the camera in these locations may result in an accident.



- When dust accumulates on the electrical plug, wipe it off thoroughly. The dust may cause a fire.
- When using a household electrical outlet, always use the special AC adapter (product name: AC-2, AC-2100 (110V area only), optional). If a non-recommended AC adapter is used, this may cause fire, shock or other damage.



- During travel to foreign countries, do not connect the AC adapter to an electrical voltage transformer. This may cause fire, shock or other damage.

Observe the following precautions in order to use this unit safely.

**Caution**



● Fluid leaking from a battery can cause skin burns. If you touch a damaged battery, wash your hands with water immediately (do not use soap).  
If fluid leaks from the batteries, wipe off the fluid and replace the batteries with new batteries.



● Make sure that the electrical plug is plugged securely into the wall.



● Do not get the camera wet. Do not touch the camera with wet hands. This may cause an electrical shock.



● Do not point the flash unit at the driver of a car, bicycle or train. This may cause an accident.



● To prevent fire and shock, do not use metal objects such as a tweezers to grasp the batteries. This may cause a short-circuit.

**Special Products**

- When using products that are optional, such as the Ricoh Remote Control Unit and AC adapter, read the section Safety Precautions in the operation manual for each product before operation.