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L203 2542

<NTSC>

this manual handy for easy reference. proper use of the camera. Please keep this manual carefully to understand the Before using your digital camera, read

Operation Manual

Introduction

instructions on the proper use of your camera as well as the necessary handling precautions. Read this manual thoroughly and carefully to understand the proper use of the Thank you for purchasing the Ricoh RDC-300Z Digital Camera. This manual contains

Ricoh Co., Ltd.

Testing the camera

correctly recorded. Always test the camera by taking several sample pictures to confirm that the pictures are

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About digital audio visual files

We regret that we cannot be responsible for files lost due to any malfunction of the cam-

About the warranty

we cannot be responsible for the cost or availability of service in other countries This product is made to local specifications. Should it malfunction while you are abroad,

Radio-frequency interference

near a radio or television. If this condition occurs, perform the following procedures: carriera and nearby devices. Interference is likely to occur when the camera is placed Using the digital camera near electric devices could inhibit the performance of both the

- Relocate the camera as far as possible from the interference source.
- Change the orientation of the radio or television antenna.
- Plug the camera into a different electrical outlet.
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All trademarked product names mentioned in this manual are the property of their respective com-

Camera Description

Recording quickly

images are recorded in the SmartMedia memory card. The recording can be performed in a simple operation by just determining the image composition while bbserving the LCD and pressing the Shutter Release Button. The

Confirming an image right after recording

switching to the playback mode. A recorded image can be confirmed with the LCD monitor right after recording by just

recording large numbers of images. The mode can be switched according to the applicathe fine mode that sets the recording priority on image quality and the economy mode for Large number of pictures can be taken by switching the mode.

Three types of image quality modes can be set. These modes include the normal mode.

Wide range shooting is possible by using the zoom lens.

Various images such as close-ups of the subject, insertion of backgrounds and a wide range of image composition can be shot using the 3X zoom lens.

Natural color images

sunlight or inside room light by using the white balance function. The subject can be shot with a natural color under any lighting condition such as outside

Close-up shooting is possible.

It is possible to approach a subject as close as a distance of approximately 1 cm *1. This insects or other detailed subjects. type of close-up is called macro shooting and is appropriate for pictures of flowers or

*1: When the lens is set to the wide angle ($\llbracket lack
floor
floor
floor
floor$ side) position

Monitoring on TV set

sible by connecting the camera to a video or a video printer. connection cable. Dubbing to a video cassette tape and full-color printouts are also pos-A recorded image can be played back on a TV set by connecting the accessory video

Compact size for easy to carry

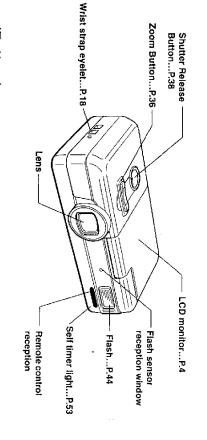
The compact size and light weight of the camera enable easy carrying. This camera has an optional Hard case making it easy to take it with you anywhere.

Images can be transferred to a computer.

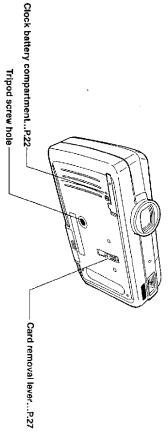
The input image can be printed out by using a color printer and color copier Images can be transferred to a computer by using the Ricoh PhotoStudio Lite software

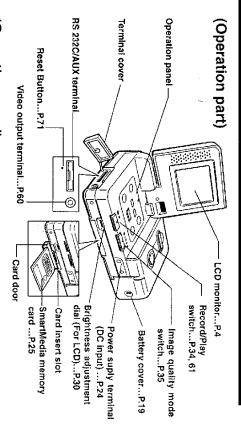
Parts and Names

Camera main unit (Top)

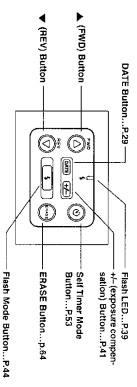


(Bottom)



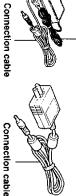


(Operation panel)

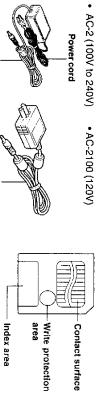


AC adapter (sold separately)

SmartMedia memory card



Power cord



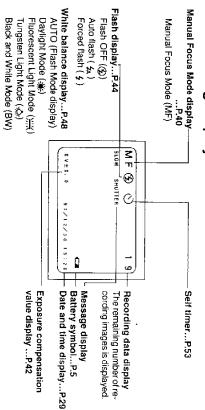
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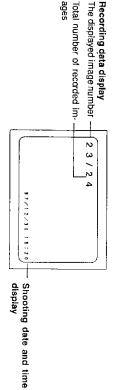
LCD Monitor Display

The camera status such as the battery condition, number of possible recordings, setting mode and other camera conditions are displayed as symbols and numbers on the LCD

Recording Display



Playback Display



- All data is displayed simultaneously in this figure. However, only the necessary data is displayed.
 When the LCD monitor is opened, if no camera operations (button or switch operations) are goes off. (The battery is only used slightly in this condition.) Supply the power again or press the Shutter Release Button longer than one second to turn the power on.

 When the AC adapter is used, the "Auto Power Off" setting does not function. performed for more than approximately two minutes when recording or five minutes when playing back, the "Auto Power OFF" mode is set to conserve energy and the display of the LCD monitor

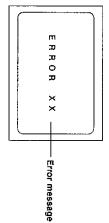
Alarm Display and Contents

tents and perform the appropriate countermeasures. When the following warning displays are displayed on the LCD monitor, verify the con-

Message	Message Condition	Description	Reference page
۵	Lights	This indicates that the batteries are depleted. Prepare new batteries.	P.19
CHECK DATE BATTERY	Flashes	If the message "CHECK DATE BATTERY" is dis- played for approximately 3 seconds when the power is turned on, the clock battery is depleted or is not set. Replace or insert the batteries.	P.22

Error Display and Descriptions

perform the appropriate countermeasures. When the following error display is indicated on the LCD monitor, verify the contents and



Error message	Description	Reference page
ERROR RECORD	The record is lost or damaged. Record the image	P. 34
	again because the data that was recorded at this	P. 71
	time may not be played back correctly. If the error	
	message is still displayed, turn on the power again	
	or press the Reset Button.	
ERROR ERASE	The erase operation was not performed correctly.	P. 34
	Turn off the power by closing the LCD monitor, then	P. 63
	turn it on again and take a test image. If the test	P. 71
	image data is erased, the incorrectly erased data	
	will also be erased at this time. If the error message	
	is still displayed, press the Reset Button.	
ERHOR PLAY	The playback failed. Turn on the power again or press	P. 34
	the Reset Button.	P. 71
SYSTEM ERROR1	Turn on the power again. Otherwise, press the Re-	P. 34
SYSTEM ERROR2	set Button.	P. 71
SYSTEM ERROR3		

^{*}When problems cannot be solved even if the countermeasures described above are performed, please contact the store where you purchased the product or the local

^{*} When an error occurs, the power goes off if the Card door is opened. Close the door and then turn the power on again.

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Tungsten Light Mode
Black and White Mode eclal Functions Using the Self Timer Focus lock shooting (Close-up shooting) Macro Shooting (Close-up shooting) icture Playback/Erasing fore Playback Information displayed during playback Connection to a TV set
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Basic Operation • Quick Reference

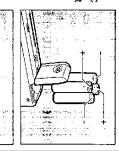
This section describes the basic operations. Refer to the reference pages for further

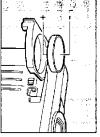
Preparations

insering according Page 19 to 24

Insert the batteries.

* When using the AC adapter, connect the AC the adapter to the wall outlet. See page 23. adapter to the camera unit and then connect





* Page 29 to 30

Open the LCD monitor.

Setting the bate and time

Set the date/time setting mode.

Change the numbers. two seconds. Press and hold the DATE Button for more than

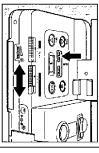
Change the position of the flashing number. Each time the DATE Button is pressed, the numbers to be corrected change. the flashing numbers.

Press the ▲ Button or the▼ Button to change

* Press the DATE Button repeatedly to select ignation is flashing, press the ▲ Button or the minute. When the selected date or time des-(in order) the year, month, data, hour and

Start the clock. ▼ Button to set the correct numbers.

After setting the minutes, press the DATE Button again to start the clock.



DATE / TIME SETTING PUSH "CURSOR" TO SELECT 7+12/30 7:20

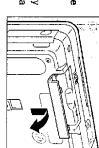
Picture-Taking

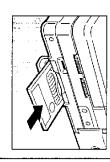
_மள்∥ந்த நி⇔த்நுள்நம்வியாளுந்து. ⊬alid⇒¦ Page 26 to 27

Make sure that the power is turned off. Make sure that the LCD monitor is closed.

@ Open the Card door and insert the SmartMedia memory card.

*When using a new SmartMedia memory card, always format the SmartMedia memory card. → Page 27





Picure-Taking (Basis picure Jaking) -> Page 34 to 42

Turn on the power. The recording mode is

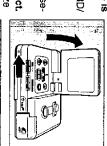
PLAY switch to the [REC] position. Open the LCD monitor and slide the RECORD/

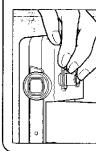
Set the image quality mode.

Determine the size of the shooting subject. Slide the image quality mode switch and select the image quality mode (F, N or E).

Start taking pictures. of the shooting subject. Press the zoom button and determine the size

the Shutter Release Button to take a picture. way down without releasing your finger from Next press the Shutter Release Button all the down to set the focus. Press the Shutter Release Button halfway





TO THE STATE OF THE PARTY OF THE PROPERTY OF THE PARTY OF

Turn on the power and set the recording Changing ine Pash Mode - Page 44 to 47

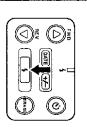
Open the LCD monitor and slide the RECORD/ PLAY switch to the [REC] position.

Change the flash mode.

the Flash Off Mode (§), Auto Flash Mode (4,) Press the Flash Mode Button and select either

Take a picture.

to take the picture. Position the camera to frame the subject, and press the Shutter Release Button or Forced-Flash Mode (4).



Using the Self-lime | - Page 53

Open the LCD monitor and slide the RECORD/ PLAY switch to [REC].

Set the Self-Timer Mode.

0

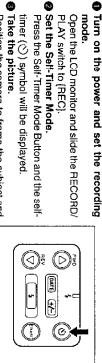
Take the picture. timer (○) symbol will be displayed. Press the Self-Timer Mode Button and the self-

0

Position the camera to frame the subject and

press the Shutter Release Button to take the picture.

* The self-timer lamp lights and the shutter is released after approximately 10 seconds.



Playback

Playing Back an limage - --- Page 61 to 62

Open the LCD monitor and slide the RECORD/ PLAY switch to [PLAY].

Select the image.

Press the ▲ and ▼ Buttons and select the image

* If the automatic play function is used, image playback can be performed in order at the set play interval. → Page 62

5



Erase

Erasingiahilihaya

Turn on the power and set the playback

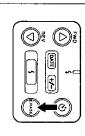
Open the LCD monitor and slide the RECORD/PLAY switch to [PLAY].

Set the erase mode. Press the ERASE Button.

Select the erase method.
Select either [ERASE] or [ERASE ALL] and press the Shutter Release Button.

*Refer to the section "Format of the Smart-Media memory card" on page 27 for further

ERASE ALL FORMATCARD



П

RASE AND PUSH

.SELEASE.

details of the format.



Erasing Single image

Erase the image.

Press the ▲ and ▼ Buttons and select the im-Button. Repeat step 4 as desired. age to be erased. Press the Shutter Release

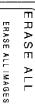


Erasing All Images

Erase the images.

Press the Shutter Release Button





CANCEL - PUSH ERASE ERASE -- PUSH'RELEASE'

Safety Precautions

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

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

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



operations The symbol indicates the contents of forced or other indicated



 Display example Meaning: Touch prohibited

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

(M) Meaning: Disassembly prohibited

Observe the following precautions in order to use this equipment safely

A-10



 Turn off the power immediately if a fire, strange smell or abnormal 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 damcondition occurs. Remove the batteries carefully, being careful to aged or not operating correctly.



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



- When the LCD monitor is damaged, be careful not to touch the form the appropriate countermeasures immediately. fluid inside the display. If any of the following conditions occur, per-
- affected area with plenty of water, then wash the area throughly If liquid crystals contact the skin, wipe it off the skin and flush the 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 thorvomiting. Then, contact a doctor immediately. oughly with water and drink a large quantity of water and induce



- 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, mental contamination. so may damage the batteries and cause a fire, injury or environor nickel-metal-hydride (NiMH) batteries can be recharged.) Doing attempt to disassemble, heat, or recharge the batteries. (Only NiCad
- mixed with new batteries. type or name, batteries of a different manufacturer, or old batteries Do not use batteries incorrectly, such as batteries of a different
- Be sure to maintain the correct polarity (positive [+] and negative [-] poles) when inserting the batteries.
- cause a fire, injury or environmental contamination Do not solder the batteries. This may damage the batteries and



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



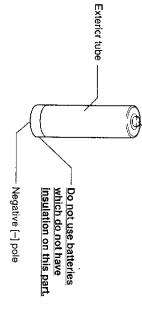
Be especially careful to store the batteries used in this product in a the batteries from being swallowed accidentally. Contact a doctor location which is not accessible to infants or children, to prevent esult in severe personal injury. mmediately if the batteries are swallowed accidentally. This may

Warning



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

Positive [+] pole



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



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



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



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



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



- 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.



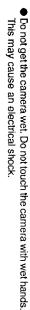
 During travel to foreign countries, do not connect the AC adapter to an electrical voltage transformer. This may cause fire, shock or other damage.



- 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).
- batteries with new batteries. If fluid leaks from the batteries, wipe off the fluid and replace the



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





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 twee-zers to grasp the batteries. This may cause a short-circuit.



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.

Chapter 1. Getting Started

3 3 3 3 3 7 8 2 7 8 3 3 3 3 5 6 6	Attaching the wrist strap	
. =	Before Using the Camera	
	:	

Before Using the Camera

Confirming the package contents

Check the packaging to ensure you have received the following items. Read the warranty, then store it in a safe place

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	:	i	:	:		
		•	Soft Case	Video connection cable	Digital Camera (main unit)	
			:	:	:	
	Clock battery	AA Alkaline Batteries	Ì	:		

Wrist Strap Operation Manual (this document) SmartMedia memory card

Warranty card

Attaching the wrist strap

For security, always use the wrist strap when carrying

0 To attach the wrist strap, loop the leading end through the wrist strap eyelet of the

Avoid swinging the camera when carrying it.



Supplying Power to the Camera

plained in this section The procedures for loading the batteries (alkaline batteries, lithium battery) are explained in this section. Electrical power supply by standard AC household current is also ex-

Inserting batteries

same type of batteries which are included in the package. Insert four AA alkaline batteries to begin using the camera. It is recommended to use the

Note: The camera can also be powered by commercially available rechargeable nickel-cadmium (NiCad) batteries or nickel-metal-hydride (NiMH) batteries. (It is recommended to use a high capacity type of battery for NiCad batteries.)





- 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 so may damage the batteries and cause a fire, injury or environor nickel-metal-hydride (NiMH) batteries can be recharged.) Doing mental 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.
- cause a fire, injury or environmental contamination. Do not solder the batteries. This may damage the batteries and



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

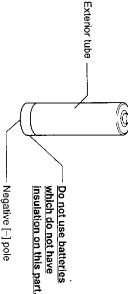


Be especially careful to store the batteries used in this product in a immediately if the batteries are swallowed accidentally. This may result in severe personal injury. the batteries from being swallowed accidentally. Contact a doctor location which is not accessible to infants or children, to prevent

A CONTRACTOR OF THE PROPERTY O

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

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



Do not use batteries of which the exterior tube is either broken peeling of



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

Rechargeable batteries

Before using commercially available NiCad or NIMH batteries, read the safety pre-

- cautions provided with each product thoroughly.
- Do not use batteries available in the market which are exclusively for a particular purpose (for

Never use manganese batteries, lithium batteries or any other type of batteries that are not specifically recommended. Use of such batteries may damage the camera or LCD monitor.
Some batteries may become hot after a long period of use. Remove the batteries after they have

Use only specified AA-type batteries.

- example, those marked "CD player batteries") in this product.
- When purchasing batteries, carefully read the battery instructions and check that the batteries can be used for this product.

8

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After confirming that the LCD monitor is closed, slide the lever to open the battery cover.

> 5.0 Sc.o

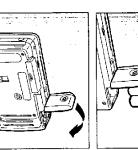
Note: See "Turning on the power" on page 34.

Insert the batteries.

Important --poles and negative [-] poles). Carefully note the proper battery polarities (positive [+]



Close the battery cover





Recording and playback capacities

<These capacities are based on Ricoh's measurement standards.> available with AA alkaline batteries (at temperatures between 10°C and 30°C). The following table shows the number of recordable images and the playback time



- The battery life varies according to flash usage and other variables
- Results may vary according to the type and brand of battery.

 Results may vary according to the type of SmartMedia memory card that is used.

.....

- Whenever you do not have access to an electrical outlet, always carry a spare set of batteries.
- The battery symbol () appears on the display panel to indicate that the batteries are weak or depleted. Prepare spare batteries.

For rechargeable NiCad or NiMH batteries, the time between lighting of the battery symbol and complete depletion of the batteries is shorter than when alkaline batteries are used. The batteries run out quickly after the symbol lights.

Safety Precautions

- Do not use damaged batteries or batteries that are near the end of their service lives. Do not subject the batteries to strong impact.



Inserting a Lithium Battery

before starting to operate the camera. The lithium battery (CR2025) maintains the set date and time. Insert the lithium battery

△ Warning



- Observe the following precautions to prevent the batteries from leak-
- Never use any type of batteries that are not specifically recommended for use with this camera. ing, exploding, catching fire or breaking.
- Never dispose of the batteries in a fire, short-circuit the terminals, attempt to disassemble, heat, or recharge the batteries. (Only NiCad so may damage the batteries and cause a fire, injury or environor nickel-metal-hydride (NiMH) batteries can be recharged.) Doing mental contamination.
- Be sure to maintain the correct polarity (positive [+] and negative [÷] poles) when inserting the batteries.



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



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

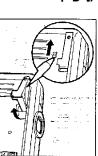
After confirming that the LCD monitor is or similar item in the direction of the arclosed, slide the lever with a ball point pen

Note: See "Turning on the power" on page 34

Pull out the battery holder.

22

Control of the Contro



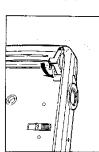
Insert the lithium battery in the battery face is facing down. holder so that the positive (+) pole sur-

- Use the lithium battery (CR2025) that is installed in the camera. Do not use any other types of batteries that are not specifically recommended.
- Be sure to maintain the correct polarity (positive [+] poles and negative [-] poles) when inserting the batteries.



Close the battery holder

Note: If the message "CHECK DATE BATTERY" is displayed for approximately 3 seconds after the power is turned on, the battery is worn out. Replace the battery.



- Safety Precautions
- The lithium battery (CR2025) maintains the set date and time. Battery life is approximately one year.
- To prevent imperfect contact, wipe off the batteries with a dry cloth before inserting
- Dispose of the batteries according to the local ordinances and regulations

Operation on AC Power

AC adapter If you intend to use your camera to record or playback over a long period of time, it is recommended to connect the camera to a household electrical outlet with the optional



 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), opfire, shock or other damage. tional). If a non-recommended AC adapter is used, this may cause



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

Getting Started

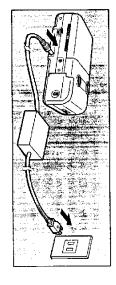




Make sure that the electrical plug is plugged securely into the wall

About the AC Adapter

Be sure to read the safety precautions in the manual supplied with the AC adapter.



Confirm that the LCD monitor is closed

Note: See "Turning on the power" on page 34.

- Connect the connection cable of the AC adapter to the power terminal (DC input) of the camera.
- Insert the plug into an electrical outlet

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Note: When the AC adapter is used with the camera, it becomes the active power source, even when the batteries are installed in the camera.

Plug the power cord firmly into the power source and into the camera. If the power plug or con-

interrupted during the change of the power source. If this occurs while the camera is in use such as during recording, playback or erasing, data can be damaged or lost. Therefore, always turn off necting cable loosens during recording, data could be lost or damaged.

When the AC adapter is connected to the camera, the power supply to the camera is temporarily. the power of the camera before connecting the AC adapter.

SmartMedia memory card

This section explains the types and applications of the SmartMedia memory card.

SmartMedia memory card

The shot images are recorded in the SmartMedia memory card as data

- Capacity: The following types can be used. 2MB, 4MB, 8MB 3.3V, 5V

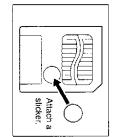
- There are various types of SmartMedia memory card. When a commercial product is used, always verify the manufacturer of the SmartMedia memory card.

 The SmartMedia memory card can be loaded directly in the PC slot of a computer if an optional PC card adapter is used.

Preventing recording errors

Attach the write protect sticker to the SmartMedia memory card to prevent erasing the recorded data by mistake. If the write protect sticker is attached, record-When performing recording and erasing, remove the ing and erasing cannot be performed.

Note: When the write protect sticker gets dirty, wipe it with write protect sticker.



Usage applications

- SmartMedia memory card
- Do not remove the SmartMedia memory card while images are being recorded or
- Do not bend, apply strong force or shock, or drop the SmartMedia memory card.
- Do not use or store the SmartMedia memory card in a environment which is subject to static electricity or where electric noise is easily produced.
- Do not use or store the SmartMedia memory card in locations subject to high temperature or humidity, dust or corrosion.
- Be careful so dust or debris does not attach to the contact surface of the dust off with a dry soft cloth. SmartMedia memory card. If the SmartMedia memory card gets dusty, wipe the
- Be careful so dust or debris does not enter the card slot of the SmartMedia memory
- Do not place the SmartMedia memory card near a heat source or into a fire, because this is extremely dangerous.
- A SmartMedia memory card has a finite service life. If it is used for a long period of time, it may not be possible to record new images.

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- or the SmartMedia memory card malfunctions or needs repairs. Please note that Ricoh used, the SmartMedia memory card is influenced by static electricity or electric noise, Company, Ltd. assumes no responsibility for problems resulting from data loss due to The recorded data may be erased when the SmartMedia memory card is incorrectly
- Do not remove the batteries, turn off the power or connect the AC adapter while recording is performed in the SmartMedia memory card. This may damage the data in data erasure.
- It is recommended to copy all important data to another media such as a floppy disk or the SmartMedia memory card.

Loading the SmartMedia memory card

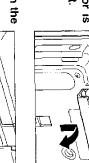
Confirm that the power of the camera is turned off before loading the SmartMedia memory

Do not load or remove the SmartMedia memory card while the power of the camera is turned on.

card Loading the SmartMedia memory

After confirming that the LCD monitor is closed, slide the Card door and open it.

Note: See "Turning on the power" on page 34.



Insert the SmartMedia memory card in the card slot and close the Card door.

up and insert it all the way into the slot. tact surface of the SmartMedia memory card faces Position the SmartMedia memory card so the con-

- Do not mistake the insertion direction of the SmartMedia memory card. Do not insert the SmartMedia memory card
- When the SmartMedia memory card is placed in the slot, if it Contact surface is not inserted all the way or the insertion direction is incorrect, the message "NO CARD" is displayed. If the Card door is not closed securely, the message "CARD DOOR OPEN" is displayed.

it from the camera.

recorded in the card may be damaged.

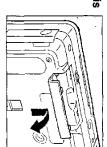
Keep the SmartMedia memory card in an antistatic film case or other storage case after removing

Do not remove the SmartMedia memory card while data is being recorded or erased. The data

Removing the SmartMedia memory card

After confirming that the LCD monitor is closed, slide the Card door and open it.

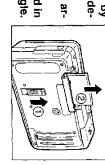
Note: See "Turning on the power" on page 34.



- Remove the SmartMedia memory card by scribed below. operating the card removal lever as de-
- ① Slide the lever in the direction of the ar-
- ② Pull out the SmartMedia memory card in the correct direction and not at an angle. row mark.
- Close the Card door.



Getting Started



Format the SmartMedia memory card

Before using a new SmartMedia memory card or a SmartMedia memory card which was used in another device such as a computer, it is necessary to format it in the camera.

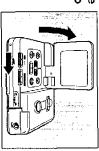
important ----

- When the SmartMedia memory card is formatted, all the data recorded in the SmartMedia memory card is erased.
- Do not format the SmartMedia memory card in a computer.

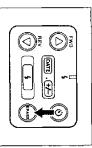
Load the SmartMedia memory card to be formatted

Note: See "Loading the SmartMedia memory card" on page 26

And the state of t



Press the ERASE Button. The erase mode is set.



 Press the ▲Button or ▼ Button to select "FORMAT CARD" and press the Shutter Release Button.

Note: To cancel the format, select "EXIT" and press the Shutter Release Button.



Press the Shutter Release Button. The SmartMedia memory card is formatted.

Note: To cancel the format, press the ERASE Button.



Before You Begin Recording

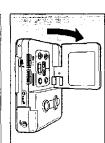
This section explains the initial camera adjustment and basic camera operations.

Adjusting the date and time

correct date and time when you first begin using your camera, as well as when you travel to a different time zone. The camera records the date and time of every image that is recorded. You should set the

- Input the date and time in the following format: yyl/mm/dd
 The camera uses a 24-hour clock, where 0:00 indicates midnight and 12:00 indicates noon.
- Open the LCD monitor.

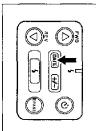
Note: The Recording/Playback switch can be set to either [REC] or [PLAY].



Press and hold the DATE Button for more than two seconds.

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The date setting mode is set



Press the ▲ Button or the ▼ Button to DATE/TIME SETTING PUSH 'CURSOR' TO SET 97+01/01

fast-forward the numbers. Press the ▲ Button. Press and hold the button to To advance the number change the flashing numbers.

reverse the numbers rapidly. Press the ▼ Button. Press and hold the button to

To reverse the number

The state of the s

the necessary items. Repeat operation procedures 3 and 4 to correct

Note: Every time the DATE Button is pressed, the year, month, day, hour and minute flashes in order.

After setting the minutes, press the DATE The clock starts and the LCD monitor display re-Button again.

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DATE / TIME SETTING PUSH 'CURSOR' TO SELECT



Adjusting the LCD

This section explains how to adjust the brightness and angle of the LCD monitor

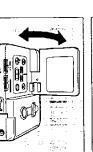
Turn the brightness adjustment dial to the right and left to adjust the appropriate brightness.

when turning the brightness adjustment dial to the ness adjustment dial to the right. It decreases The brightness increases when turning the bright-

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tain the optimal angle.

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Important



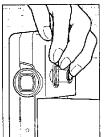
Holding the camera

Be especially careful not to shoot a blurred picture when zooming best results, hold the camera steady when pressing the Shutter Release Button. Unintentional movement of the camera during shooting will result in blurred pictures. For

- Hold the camera securely with both hands and hold your elbows lightly against your side. Position the camera towards the subject and look at the LCD monitor.
- Place your fingers lightly on the Shutter Release Button.
- When holding the camera in a high position: -

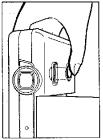


ne on the LCD monitor () in rest and hold the DATE Button for



When holding the camera in a low position:-



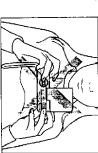


Note: Holding the camera vertically will result in the subject being displayed sideways

camera may shake and a blurred picture may result.

If you hold your finger too far from the Shutter Release Button and press the button too fast, the

Be sure to keep your fingers or the wrist strap away from the camera lens and flash window.



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Chapter 2. Recording Basics

Exposure compensation 41	Taking Pictures	Viewing the LCD Monitor 37	Determine the size of the subject (Zooming) 36	Selecting the image quality 35	Turning on the power34	Picture-taking sequence 34	Basic Picture-taking 34
Exposur	Taking P	Viewing	Determin	Selecting	Turning	Picture-t	Basic Pictu

Basic Picture-taking

This chapter explains the basic operations and other information needed to record im-

Picture-taking sequence

The basic operation procedures are performed as follows

Load the SmartMedia.

Loading the SmartMedia. \rightarrow Page 26

Turn on the power.

side. → Page 34. Open the monitor and then slide the Recording/Playback switch to the [REC]

Selecting the image quality mode.

Select the desired image quality of either F, N or E. \rightarrow Page 35

Determine the size of the subject.

Operate the zoom button and select the size of the subject. \rightarrow Page 36

Confirm the image size in the LCD monitor.

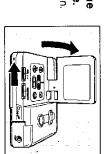
Look at the LCD monitor and confirm the size of the object. ightarrow Page 37

Press the Shutter Releaes Button to record the images. → Page 38

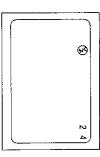
Turning on the power

The power is turned on by opening the LCD monitor. (Approximately 60°)

Open the LCD monitor and slide the RECORD/PLAY switch to the [REC] side. The lens cover opens and the power is turned on



- When the power is turned on, the recorded data display in approximately three seconds. and the flash mode setting are displayed on the monitor
- the lens cover closes. When the LCD monitor is closed, the power turns off and



Tips: Auto Power-Off Function

performed for more than approximately two minutes for recording and five minutes for playing, the "Auto Power OFF" mode is set to conserve energy and the display of the LCD monitor goes off. The battery is only used slightly in this condition "Supply the power again or press the Shutter Release Button longer than one second to turn the power on.

The Auto Power Off setting can be carrieded. See "Setting the Auto Power-Off Mode" on page 68 for jurther details. The Auto Power Off hunction does not operate when the AC adapter is used.

* The "Auto Power Off" hunction does not operate when the AC adapter is used. When the LCD monitor is opened it no camera operation (button or switch operations) are

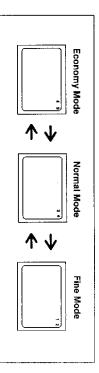
Note: When the Power-Off Memory operates, the setting contents of the FLASH MODE, WHITE BALANCE MODE, AUTO POWER-OFF MODE, POWER SAVING MODE and AUTOMATIC PLAYBACK are saved at the values that were set just before the power was turned off. See "Recording the setting contents" on page 70 for further details.

Selecting the image quality

that can be recorded. You can select the desired image quality for each image that is recorded. The number of pixels is set to the VGA resolution (640 (H) \times 480 (V)). priority to picture quality and E (Economy) mode gives priority to the number of images amount of information to be recorded. N (Normal) mode is standard, F (Fine) mode gives This digital camera uses compression and decompression methods that allow a large

Mode display on the monitor

Slide the image quality mode switch and set the mode

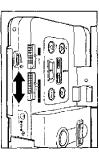


If the image quality mode is switched, the number of recording images changes

<u>ω</u>

Selecting the image quality

Slide the image quality mode switch and select the image quality mode (F, N and E). displayed in the recording data display on the LCD The number of images that can be recorded is



Standard Data

F Mode Approx. 160 KB/image N Mode Approx. 80 KB/ image E Mode Approx. 40 KB/ image

Note: The following chart indicates the maximum number of images that can be recorded when the image quality mode is switched.

E Mode	N Mode	F Mode	#Image Quality Mode [1]
Approx. 49 images	Approx. 24 images	Approx. 12 images	*Number of Recorded images

* With 2MB SmartMidia memory card.

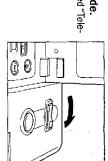
number of recording images classified by the smart media capacity and the image See "Number of recording images" on page 87 for further details of the possible quality mode.

Determine the size of the subject (Zooming

If the zoom button is operated, the size of the subject in the LCD monitor can be changed without changing the distance to the subject. (45 to 135 mm, equivalent to a 35 mm

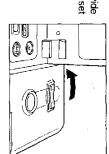
Enlarging the subject.

● Press the Zoom Button to the [♠] side. The subject is enlarged. This condition is called "Tele-



Reducing the subject.

Press the Zoom Button to the [1] side.
The subject is reduced. This setting is called the "wide angle" setting. In the initial setting the camera is set to the wide angle setting.



Viewing the LCD Monitor

Look at the LCD monitor and frame the subject

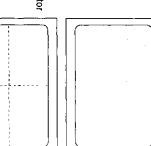
Shooting range frame

Place the subject to be shot in the LCD monitor.



Auto focus range

as shown in the figure. This range is located in the center of the LCD monitor The focusing is performed in this range.



Note: The range in the LCD monitor above is indicated using dotted lines and the area in the shadow for the explanation in the figure. These dotted lines and area in the shadow are not actually displayed on the LCD monitor.

Taking Pictures

This section explains the basic operations and other information needed to record images

Note: See "Holding the Camera" on page 31.

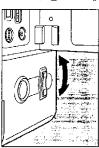
Look through the LCD monitor and position the camera to compose the image.

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Set the Zoom Button to the wide angle ([4] side) side to take pictures of subjects at distances shorter than approximately 20 cm (7.9 inch).

Note: See "Macro Shooting" on page 55

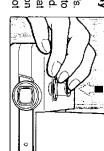




Note: Refer to "Determine the size of the subject" (Zooming) on page 36 and "Viewing the LCD monitor" on page 37.

Press the Shutter Releaes Button halfway down with your finger tip.

the camera securely for shooting so the picture is not this point. While the autofocus is performed, position When the button is pressed halfway down, the auto The focus, exposure and white balance are fixed at focus function operates and the focusing is performed. The Shutter Releaes Button has two pressing levels.



Displayed message

It is recommended to take pictures in the S Mode or use the flash when the message "SLOW SHUTTER" is displayed because the picture may blur easily

When the power is supplied, if no camera operation (button or switch operations) are performed for more than approximately two minutes for recording or five minutes for playing, the Auto Power-Offlunction of it is set ain a mount of time its required until a picture can be taken. Prepare a spelle set of batteries because the batteries may be worn out if they are used for a long period of time. Connect the optional AC adapter to use the camera when power is supplied from a household electrical outer.

Note: See "S Mode" on page 41, "Flash Mode" on page 44.

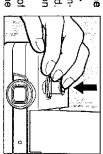
Without releasing your finger, press the Shutter Releass Button all the way down.

age recording to indicate that an image is recorded. the LCD monitor. The message "NOW RECORDING" is displayed on The self-timer lamp and flash lamp light during im-

If the image is recorded, the remaining number of images that can be recorded is displayed on the LCD monitor

8

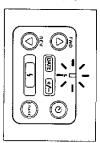
the state of the first section



Important -

- Do not turn off the power of the camera by closing the LCD monitor or performing other opera-
- If the power is turned off while the recording is performed, the image is not recorded.
- When Forced Flash or Auto Flash is set: flash LED lights when the Shutter Releaes Button is pressed halfway down. When taking a flash photo in dark locations, the

Note: The Flash LED flashes when the flash is charging A picture cannot be taken at this time.



Cancellation of Pre-recorded image

ter is released. If you don't like the image, you can memory card. cancel it before it is recorded to the SmartMedia ter Release Button is pressed all the way and the shut-The image is displayed on the LCD monitor if the Shut-



memory card. The image is not recorded to the SmartMedia

Once "NOW RECORDING" is displayed on the LCD monitor, the pre-recorded image cannot be cancelled.

Tips: When the camera is not used for a long period of time:



released. Button is pressed all the way and is displayed if the Shutter Release The picture image that was taken

Recording Basics

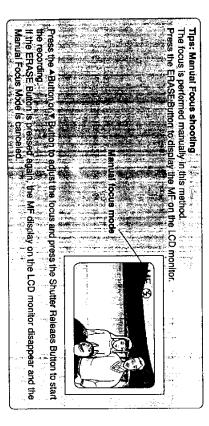
Subjects which are difficult to focus

The following subjects may be difficult to focus.

- Subjects have no contrast such as the sky, white walls and car hoods.
- Subjects which have only horizontal stripes but no indentations.
- Subjects that move rapidly.
- Subjects with low brightness (dark location).
- Subjects in a bright backlit condition or which have reflected light.
- Subjects which flicker such as fluorescent light.

When shooting these kinds of subjects, focus on another subject one time which has a same distance from the camera, fix the focus and then shoot the pictures.

Note: Refer to "Focus lock shooting" on page 54.



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The Manual Focus Mode cannot be set while the Exposure Compensation Mode is set. Cancel the Exposure Campensation Mode and then set the Manual Focus Mode.

■ S Mode

The S Mode increases the shutter speed when taking pictures in dark locations. This mode may reduce the blurring if it is used when taking pictures of moving objects or if the Shutter Releaes Button is pressed halfway down and the message "SLOW SHUTTER" is displayed on the LCD monitor.

- Confirm that the recording mode is set and while pressing the ▲ Button, press the DATE Button.
- Press the ▲ or ▼ Button and ON will be displayed.

 The S Mode will be certif the Shutter Belease But

The S Mode will be set if the Shutter Releaes Button is pressed or if the camera is not operated for approximately three seconds.



The picture will be taken in the S Mode if the Shutte Releaes Button is pressed.

Canceling the Mode

Perform the same operation described above to set the [OFF] mode

Note

- Set the Power Off Memory (see page 68) to ON to maintain the S Mode setting.
- Even if the Shutter Releaes Button is pressed halfway down and the message "SLOW SHUT-TER" is displayed, the S Mode is switched and a picture can be taken.
- A certain amount of random noise may appear as fluctuations in the images taken in the S Mode

Exposure compensation

Normally, if the subject is in the center of the shooting object the backlight compensation is performed automatically and the shooting can be performed. However, if there is a significant difference in brightness between the background and the subject or backlit condition, the subject may be underexposed (too dark) or overexposed (too light). In such cases, perform the exposure compensation. This function allows you to intentionally underexpose or overexpose an image.

- Exposure compensation range
- ± 2.0 EV (in 0.5 EV steps)

Shooting with backlighting

When the background is bright, the subject is underexposed. In this case, adjust the exposure by increasing the value (positive (+) compensation).

Important

In backlit conditions, if the subject is not placed at the center of the shooting range, the camera cannot determine the backlit conditions. If this occurs, perform the exposure compensation.

See the second s

Shooting white/bright images

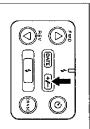
are recorded as grayish. In this case, increase the value to the positive (+) side to compensate the exposure. exposed. The image of the subject is recorded as too dark and light-colored subjects When shooting an image which has large white/bright area, the entire image is under-

Shooting dark images

corded as grayish. In this case, increase the value to the negative (-) side to compenson under direct light. sate the exposure. Follow the same procedures as when shooting an image of a per When shooting an image that has large dark area, the entire image is overexposed. The image of the subject is recorded as too dark and dark-colored subjects are re-

Exposure compensation setting

sure compensation value on the LCD Press the +/- Button to display the expomonitor.



Press the ▲ or ▼ Button to set the compensation value to be set.

0

After adjusting the value, take the picture

Adjusting the exposure by 0.5 EV

E V 10.0

Press the ▲ Button.

Reversing the adjustment value by 0.5 EV

Press the ▼ Button.

To cancel the setting

Press the +/- Button again.

To confirm the effect of the exposure compensation on the recorded image, watch the image that About the exposure compensation appears on the screen after the picture is taken, or playback the screen

Activismentalism decreases along a second or control of

The manual focus adjustment cannot be performed while the Exposure Compensation Mode is set. After the manual focus adjustment is completed, set the exposure compensation.

Chapter 3. Picture-Taking **Applications**

Macro Shooting (Close-up shooting) 55	Focus lock shooting54	Using the Self Timer 53	Special Functions 53	Black and White Mode52	Tungsten Light Mode51	Fluorescent Light Mode 50	Daylight Mode 49	Selecting a White Balance Mode 48	Setting the White Balance Mode 48	Forced Fiash Mode 47	Auto Flash Mode	Flash Off Mode45	Selecting a Flash Mode 44	Flash Mode44	
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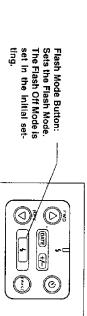
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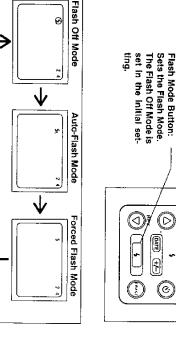
Flash Mode

suited to the Ighting conditions. This section explains how to change the Flash Mode. You can select the Flash Mode best

Selecting a Flash Mode

Press the Flash Mode Button to select the desired mode





- Important

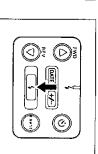
 The Flash Mode cannot be changed when the White Balance Mode is set to the Daylight, Fluorescent light, Tungsten light and Black and White Modes (Flash Off Mode is set automatically). Change the Flash Mode after changing the White Balance Mode to AUTO.

 The light from the flash appears red in the picture if the flash discharges on the subject at a short.
- excessively white. Set the Flash Off Mode in this case. distance (approximately less than 0.6m). The subject is overexposed and the image becomes
- Set the Power Off Memory ON to maintain the Flash Mode setting. \rightarrow See "Recording the setting contents" on page 70.

Flash Off Mode

also convenient for using the available room light when taking a picture convenient when you wish to take a picture where flash photography is prohibited. It is If this mode is used, the flash will not discharge even in dark locations. This feature

 Press the Flash Mode Button until the [3] symbol appears on the LCD monitor.



Press the Shutter Release Button.

discharging. The camera will take a picture without the flash



Important ---

In dim light, the camera's shutter speed is automatically reduced and the message "SLOW SHUT-TEH" is displayed. To prevent a biured picture, hold the camera steadily or stabilize it with a function (side) is used. tripod. Be careful to hold the camera steady so a blurred picture is not taken when the zoom

Canceling the Mode

Press the Flash Mode Button to cancel the mode

A Commence of the Commence of

Auto Flash Mode

The flash discharges automatically when shooting in dark tocations or in backlighting Take the photo according to the lighting conditions.

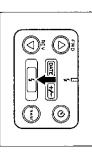
Press the Flash Mode Button to display the 4 mark on the LCD monitor.

way down and the Flash LED will light. location, press the Shutter Release Button half-When the flash discharges when shooting in a dark

Note: The flash lamp flashes while the flash is recharging. A photo cannot be taken at this time.

Press the Shutter Release Button.

cations or in backlighting.





Canceling the Mode

Press the Flash Mode Button to cancel the mode

Flash Distance

picture. If the flash light does not reach the subject, a dark underexposed image may The shooting range is approximately 0.6 to 3.0m if the auto flash is used to shoot a

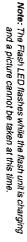
Important ---If the shooting distance to the subject is less than approximately 0.6m, the subject may be over exposed and appear excessively white. Set the Flash Off Mode when this occurs.

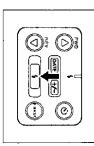
Forced Flash Mode

discharged under all lighting conditions. may appear on the faces in the image. This mode is used to soften shadows. The flash is When taking photographs of people under strong light or with backlighting, dark shadows

Press the Flash Mode Button until the [4] symbol appears on the LCD monitor.

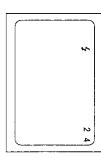
is pressed halfway down. The flash lights when the Shutter Release Button





Press the Shutter Release Button.

The camera will shoot a picture with the flash.



Canceling the Mode

Press the Flash Mode Button to cancel the mode

Flash Distance

discharged in daylight ("daylight synchro photography"). If the flash does not reach the subject, a dark underexposed image may result. If the lens-to-subject distance is less than 25cm (10 in.), the reflected image may look washed-out. The recommended flash shooting range is approximately 0.6 to 3.0m if the flash

If the shooting distance to the subject is less than approximately 0.6m, the subject may be over In this case, hold the camera securely or stabilize it with a tripod. Be careful to hold the camera securely so a blurred picture is not taken when the zoom function (lacksquare side) is used: exposed and appear excessively white. Set the Flash Off Mode when this occurs

1. 13 4.

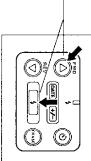
Setting the White Balance Mode

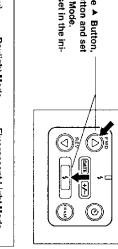
performed in natural colors even under a light source. Normally this function is set under The White Balance Mode is a function that adjusts the white balance so shooting can be the AUTO mode.

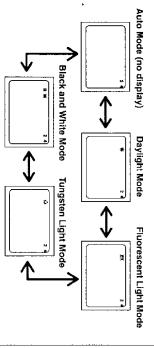
correctly adjusted when there is a small white area in the subject. If this occurs, set the White Balance Mode to the Daylight Mode, Fluorescent Light Mode or Tungsten Light white portion used as reference. As a result, the white balance sometimes cannot be To shoot a subjec: with natural hues, the white balance is automatically adjusted with the Mode and then take the picture

Selecting a White Balance Mode

While pressing the A Button, press the Flash Button and set the White Balance Mode. The Auto Mode is set in the ini-







setting contents" on page 70. Turn on the Power Off Memory to maintain the White Balance Mode setting. See "Recording the

Subjects that the Auto White Balance may not work properly

- Monotone subjects
- Subjects with multiple light sources

48

49

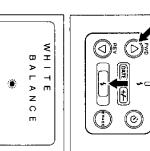
- In the AUTO Mode, the white balance may not be operate if there is an insufficient white area in the subject. In this case, move the camera to increase the white portion of the subject and then shoot the picture.
- set when the Playback Mode is set. The White Balance Mode can be performed only when the Recording Mode is set. It cannot be

Daylight Mode

does not work properly. This Daylight Mode is used when shooting a picture outdoors and the auto white balance

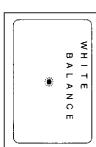
Press the Flash Button while pressing the

The white balance setting mode is set



② Press ▲ or ▼ Button to display the ※ sym-

for three seconds. ter Release Button or else perform no operation To set the Daylight Mode, either press the Shut-



- Important ---The Flash Off Mode is set when the Daylight Mode is set. At this time, the Flash Mode cannot be switched even if the Flash Button is pressed.
- The color tone varies even for shooting the same subject depending on weather conditions such as sunny or cloudy lighting.

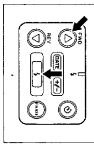
Canceling the Mode

Press the Flash Mode Button while pressing the ▲ Button to select the AUTO Mode.

and the auto white balance does not work properly. The Fluorescent Light Mode is used when shooting a picture under fluorescent lighting

Press the Flash Button while pressing the

The white balance setting mode is set.



WHITE BALANCE

eration for three seconds.

To set the Tungsten Light Mode, either press the Shutter Release Button or else perform no op-

② Press the ▲ or ▼ Button to display the ※

operation for three seconds. the Shutter Release Button or else perform no To set the Fluorescent Light Mode, either press

Important ---

The Flash Off Mode is set when the Fluorescent Light Mode is set. At this time, the Flash Mode cannot be switched even if the Flash Button is pressed. The color tone varies even for shooting the same subject depending on the type of the fluorescent

- The Flash Off Mode is set when the Tungsten Light Mode is set. At this time, the Flash Mode cannot be switched on even if the Flash Button is pressed.
- The color tone varies even when shooting the same subject depending on the type of the incan descent light source.

Canceling the Mode

Press the Flash Mode Button while pressing the ▲ Button to select the AUTO Mode.

Canceling the Mode

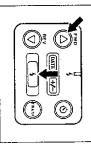
Press the Flash Mode Button while pressing the A Button to select the AUTO Mode.

Tungsten Light Mode

and the auto white balance does not work properly. The Tungsten Light Mode is used when shooting a picture under incandescent lighting

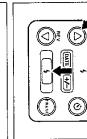
Press the Flash Button while pressing the ▲ Button.

The white balance setting mode is set





Press ▲ or ▼ Button to display the ☆ sym-





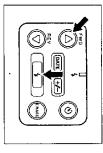
A CONTRACTOR OF THE CONTRACTOR

Black and White Mode

This mode is used when shooting monochrome pictures. The images are recorded mono-

Press the Flash Button while pressing the

The white balance setting mode is set



0 Press the ▲ Button or ▼ Button to display

Shutter Release Button or else perform no operation for three seconds. To set the Black and White Mode, either press the



Canceling the Mode The Flash Off Mode is set when the Black and White Mode is set. At this time, the Flash Mode cannot be switched on even if the Flash Button is pressed. ţ ----

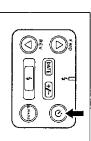
Press the Flash Mode Button while pressing the ▲ Button to select the AUTO Mode

Important ----

than the basic shooting procedures. Special Functions This camera has a variety of special functions operated by setting certain modes other Using the Self Timer

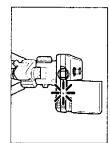
using the self timer, place the camera securely on a steady support or a tripod This function is convenient for taking a group shot that includes the photographer. Before

Press the Self Timer Mode Button to display the \odot symbol on the LCD monitor.



Frame the subject and make sure that the camera is positioned securely. Press the Shutter Release Button.

before the shutter is released. The Self Timer Mode ter is released after approximately 10 seconds. The self timer light will flash for nearly two seconds The self timer light on the front of the camera lights and the self timer begins to count down. The shutautomatically ends once the shutter is released



Note: The Self Timer Mode cannot be activated when the flash is recharging. Wait until recharging is completed before starting the self timer shooting.

tance or when the camera is set in a fixed position. Tips: About the remote control operation
Use this function with an optional Remote Control Unit when releasing the shutter in the dis-

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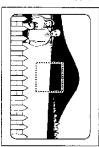
Focus lock shooting

The subject is focused in the auto focus range in the LCD monitor. If the subject to be focused does not conform to this condition, the subject may not be focused. Use this function to ensure that the desired subject is focused.

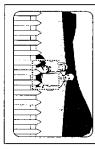
Note: See "LCD monitor" on page 37.

How to lock focus

When the subject to be focused is not in the auto focus range, the focus is or the background and the subject will be out of focus.



auto focus range, the fowers are focused and the people When items other than the subject to be focused fill the



Shooting pictures

Press the zoom button and determine the size of the subject.



Set the auto focus range of the LCD monitor to the subject to be fo-

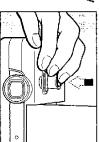


7

Control of the North Action Control of the North Co

Press the Shutter Release Button halfway

The focus is locked at this time.



 Determine the composition of the picture by ger and gently press the Shutter Release Button all the way down. moving the camera without moving the fin-

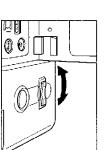


Note: It is also possible to shoot pictures while focusing manually (Manual Focus). See the "Tips: Manual Focus shooting" on page 40.

Macro Shooting (Close-up shooting)

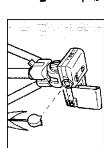
approximately 20 cm. macro shooting can be performed automatically up to approximately 1 cm. When the lens is set to another position, the macro shooting can be performed automatically up to Macro shooting is tight close-up photography. When the lens is set to the widest position,

Press the Zoom Button.



Approach the subject and compose the ton halfway down to set the focus. picture. Press the Shutter Release But-

@ Gently press the Shutter Release Button all the way down and shoot the picture.



 When the camera is repositioned, the subject may go out of focus because the accurate focus range for macro shooting is quite narrow. Position the camera on a stable surface or tripod before taking a tight close-up.

lized on a tripod or on any other support. Tips: About the Shutter Release Button
The optional Remote Control Unit is useful for releasing the shutter when the camera is stabi-

Chapter 4. Picture Playback/ Erasing

Frasing all images	Image Erasing b	Automatic playback 6	Image playback6	Operation Sequence	Image Playback b	Connecting to a TV set 60	Information displayed during playback 58	Before Playback 58	
	Operation Sequence 6.	Operation Sequence 6:	Automatic playback	Image playback	Operation Sequence	Image Playback	Connecting to a TV set	Information displayed during playback	Before Playback 56 Information displayed during playback 56 Connecting to a TV set 61 Image Playback 61 Operation Sequence 67 Automatic playback 63 Image Erasing 65 Operation Sequence 66
Single-image erasing 6		Image Erasing b.	Automatic playback	Image playback	Operation Sequence 6 Image playback 6 Automatic playback 6 Image Erasing 6	Image Playback	Connecting to a TV set	Information displayed during playback	Before Playback 56 Information displayed during playback 56 Connecting to a TV set 6 Image Playback 6 Operation Sequence 6 Image playback 6 Automatic playback 6 Image Erasing 6

Before Playback

about the playback images on the screen. This section explains the preparation for the playback operations and the information

Information displayed during playback

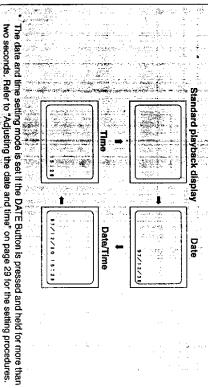
as shown in the following figure. The image number of the recorded image is displayed on the monitor for three seconds

Image number of the dis-4/24 Total number of recorded images

The numbers displayed on the LCD monitor or TV when played back and the image names displayed on the computer may differ.

Note: The playback image is displayed as a picture condition which is taken while holding the camera vertically is a horizontally. As a result, the subject which is taken while holding the camera vertically is displayed at a rotational angle of 90 degrees.

The monitor displays information about the recorded images including the date and time of recording. Press the DATE Button repeatedly to change the display in the following sequence:



File Name Display

displayed when the Playback Mode is set. RIM00000 (RIM and a five-digit number) which is different than the frame number that is This function displays the file name of the recorded image. The file name is displayed as

- Make sure that the Playback Mode is set and press the ▲ or ▼ Button to display the
- Press the +/- Button.

The file name of the displayed image is displayed



To erase the display

Press the +/- Button one more time

Note: When the file name is changed in the computer, the file name may not be displayed correctly in the camera.

Processing the Image Files in a Computer

to be deleted even if the Recycle Bin is empty. In this case, select the [Use one setting for all drives] function from the [Global] tab of the [Properties] dialog box delete the file after When using Windows 95, the image file in the SmartMedia memory card may not be able lete.] icon from the drive tab in which the SmartMedia memory card is inserted checking the [Do not remove files to the Recycle Bin. Remove files immediately on de-

Please be careful when the [Use one setting for all drives] button is selected from the [Global] tab. because the files on a hard disk or floppy disk cannot be recovered after they have been defeted because they are erased immediately.

Note: Deletion can be performed by selecting the file to be deleted and pressing the (Shift) key and (Delete) key at the same time, or moving the file by the drag-and-drop operation to the garbage can while pressing the [Shift] key.

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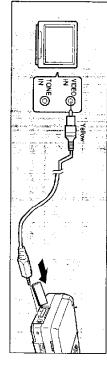
Connecting to a TV set

the camera and TV set. The recorded irrages can be played back on a TV set by connecting the Video cable to

- Refer to the manual of the TV that will be connected to for more information.

 Do not pull the terminal cover with excessive force or lift up the camera by holding the terminal

7



- Make sure that the power to the camera and the TV Set is turned off.
- Remove the terminal cover of the camera and connect the Video cable to the video output terminal.
- Connect the apposite end of the Video cable to the VIDEO input terminal of the TV set.

 When the Video cable is connected to the main unit of the camera, no image is displayed on the LCD monitor.

Extended playback

For extended playback, we suggest you use the optional AC adapter which obtains its power from a household electrical outlet. See "Operation on AC Power" on page

Be sure to turn off the power to the camera before connecting the AC adapter.

lmage Playback

This section explains the image playback procedures for recorded images

Operation Sequence

The following is the basic explanation of the operation procedures

Load the SmartMedia memory card.

Load the SmartMedia memory card. → Page 26

Turn the power on.

Select the image. Open the LCD monitor and slide the RECORD/PLAY switch of the camera [PLAY]. The playback is also performed in the recording sequence in set intervals by using the automatic playback function. \to Page 62. Press the ▲ or ▼ Button to select the image to be played back. → Page 61

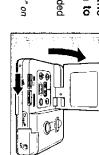
lmage playback

The recorded image can be played back by pressing the ▲ or ▼ Button

Open the LCD monitor, and slide the RECORD/PLAY switch of the camera to PLAY].

most recently. The monitor displays the image that was recorded

Note: Refer to "Information displayed during playback" on page 58 for more information.



Press the ▲ or ▼ Button to select the im age to be played back.

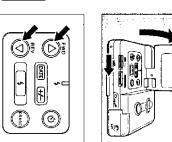
age is continuously advanced. Press the ▲ Button. If the button is held, the im-Selecting a forward image

Selecting a reverse image

age is continuously reversed Press the ▼ Button. If the button is held, the im-

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Picture Playback/Erasing

Data playback by the camera

The following data can be played back by the camera

- Image data shot by the digital camera RDC-300Z.
 Image data transferred from the computer using Ricoh software compatible with the

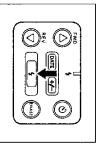
Note: The message "DATA UNABLE TO DISPLAY" is displayed for images that cannot be played

Automatic playback

The recorded images are played back in the recording sequence at set intervals. This is called an automatic playback function. The playback interval (time required to display images) can be set in the range from 0.5 to 30 seconds

Press the Flash Button.

The Interval Time Setting Mode is set



② Press the ≜or ▼Button to select the playback interval.

0.5 to 30 seconds. The playback interval can be set in the range from



To cancel the settings

Select [EXIT] and press the Shutter Release Button.

Press the Shutter Release Button.

The automatic playback interval is set and the recorded images are played back in

To stop the playback

Press the Shutter Release Button or Flash Button.

The state of the s

8

Set the Power Off Memory ON to maintain the settings of the automatic playback interval. See "Recording the setting contents" on page 70.

lmage Erasing

media used in the other equipment and formats it for use in this camera. images: single-image erasing that erases a specified image, all-image erasing that erases all images at one time and the initialization operation that erases the images in the smart This section explains how to erase recorded images. There are three methods of erasing

Note: The images in the card cannot be erased when the SmartMedia memory card is write protected. Remove the protection sticker before erasing images. See "Preventing recording errors" on page 25.

Operation Sequence

The following is the basic explanation of the operation procedures

Load the SmartMedia memory card.

Load the SmartMedia memory card. → Page 26

Turn the power on.

[PLAY]. Press the ERASE Button to set the Erase Mode Open the LCD monitor and slide the Record/Playback switch of the camera to

Select the erase method.

, erase all the images at one time or formatting the SmartMedia memory card Select the appropriate erase method to either erase a single image at one time,

Select a image.

Select an image to be erased when erasing a single image

Erase the image.

Erase the image.

See page 63 for information on single-image erasing. See page 65 for information on all images erasing.

Format the SmartMedia memory card.

Format the SmartMedia memory card. See page 27 for the format procedures

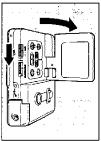
Single-image erasing

The following explains how to erase a specified image

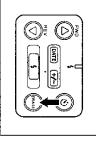
important -

An erased image cannot be restored. Carefully confirm the contents of an image before erasing it.

Open the LCD monitor, and slide the RECORD/PLAY switch of the camera to



Press the ERASE Button. The Erase Mode is set.



 Press the ▲ or ▼ Button to select [ERASE] and press the Shutter Release Button. The Single-image Erase Mode is set.

Note: To stop erasing, select [EXIT] and press the Shutter Release Button.



② Press the ▲ or ▼ Button to select the image to be erased.

Note: To stop erasing, Press [ERASE] Button



Press the Shutter Release Button.

to erase another image. The selected image is erased. Repeat steps 🚯 and

Note: When an image is erased, the image numbers of the succeeding images decrease by one.

Canceling the Mode

Press the ERASE Button again.

The second secon

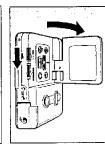
2

Erasing all images

The following section explains how to erase all the images at one time

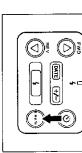
Erased images cannol be restored. Carefully confirm the contents of images before erasing them.

Open the LCD monitor, and slide the RECORD/PLAY switch of the camera to [PLAY].



0 Press the ERASE Button.

The Erase Mode is set.



Press the ▲ or ▼ Button to select [ERASE ALL] and press the Shutter Release But-

0

The All-image Erase Mode is set

Note: To stop erasing, select [EXIT] and press the Shutter Release Button.



9 Press the Shutter Release Button.

"No image recorded" is displayed. The erasing message is displayed and all images are erased. After erasing is finished the message

Note: To stop erasing, press the ERASE Button



Tips: Formatting the SmartMedia memory card
Always perform the format when using new SmartMedia memory card or SmartMedia memory
card which was used in other equipment such as a computer. See "Format the SmartMedia
card which was used in other equipment such as a computer. See "Format the SmartMedia memory dard on page 27 for further details

Note: When there are a large number of recorded images stored in a high-capacity SmartMedia memory card, it may take some time to delete the specified images.

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Chapter 5. Additional information

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Changing a Camera Setting

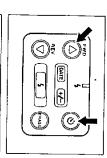
"Power-Off Memory" according to the usage purpose. This camera can change the settings such as "Auto Power-OFF", "Energy Saving" and

Setting the Auto Power-Off Mode

electricity. Perform the following operations to cancel the Auto Power-OFF function. If there is not camera operation (button or switch operation) after two minutes of recording or five minutes of playback, the auto power off function operates to save the

Press the Self Timer Mode Button while the ▲ Button is pressed.

the [REC] or [PLAY] position. The Record/Playback switch can be set to either The Auto Power-OFF setting mode is set



Press the ▲ or ▼ Button to set the func-

If the Shutter Release Button is pressed or three seconds pass without performing any operations, the Auto Power-OFF will be set off.



Power Saving Mode.

Repeat the above operation to set the Auto Power-OFF function on. The Auto Power-OFF

To reset the Auto Power-OFF

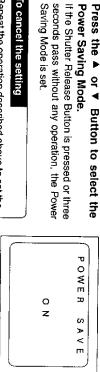
tunction starts again

To cancel the setting

Saving Mode is set

tion is turned off,

Repeat the operation described above to set the Power Saving Mode off. The power saving func-



Important

If the LCD monitor display turned off by the Auto Power-OFF system, either perform, turn on the

In order to maintan the auto power off setting set the Power Off Memory to ON. See "Recording

the setting contents" on page 70.

power again, slide the Record/Playback switch or press the Shutter Release Button for one sec-

and or more.

The auto power off does not operate when the AC adapter (sold separately) is used

- The Power Saving Mode setting is automatically canceled when the power is turned off. In order to maintain the Power Saving Mode setting, set the Power Off Memory to ON.
- When the camera is used in an environment where the temperature is approximately 40°C or higher, the LCD monitor display may have a certain uneven quality. If this occurs, the condition will "Recording the setting contents" on page 70.
- Note: Depending on the environment in which the camera is used, the Power Saving Mode can vary because in the number of recording files can be 1.2 times greater than usual and the return to normal when the temperature decreases.

playback time is approximately 2.5 hours.

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Setting the Power Saving Mode

This function saves the battary power by adjusting the LCD monitor brightness. The operations vary depending on whether the Record Mode and Playback Mode are set.

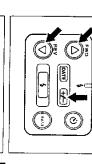
	The state of the s	
Power Saving Mode	Power Saving Mode Record mode	Playback mode
OFF	Regular operation	Regular operation
ON	The LCD monitor is totally dark and if the	The LCD display is dimly
	Shutter Release Button is pressed lightly	lit and remains this way
	the normal LCD display returns.	until the mode is set.
	If the Shutter Release Button is pressed	
	and released, the image is recorded and	
	then the LCD will become dark again.	

Perform the following operations when the Power Saving Mode is set

Press the +/- Button while pressing the and ▼ Buttons.

[REC] or [PLAY]. The Record/Playback switch can slide to either





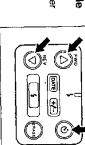
Additional Information

Recording the setting contents

48)", "Auto Power-Off (see page 68)", "Power Saving Mode (see page 69)", "Auto playback interval (see page 62)" are memorized and they are maintained when the power is The Power Off Memory function maintains the setting contents when the power is turned off. If the power's turned off when the Power Off Memory is set, the function contents of "S Mode (see page 41)", "Flash Mode (see page 44)", "White Balance Mode (see page turned on next time.

• Press the Self Timer Mode Button while the ▲and ▼Buttons are pressed.

[REC] or [PLAY]. The Record/Playback switch can be slided either The Power-Off Memory setting mode is set.



POWE o z MEMORY 0 F **F**

Press ▲or ▼Button to set ON.

If the Shutter Release Button is pressed or approximately three seconds pass without any operation, the Power-Off Memory is set on.

Power-Off Memory function is turned off. Repeat the above operation to set it off. The To cancel the setting

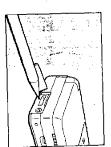


Returning the setting contents to the initial condition

Reset all of the camera setting values including date setting

Remove the terminal cover on the side of the camera and press the Reset Button with The settings are reset when the batteries or Clock battery are installed. The recorded images are not the tip of a sharp pencil or similar object.

erased even after a reset is performed.



Important
 Do not use a sharp object or material that breaks easily to press the button.

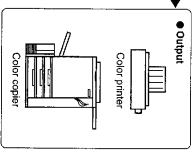
7



 Image transmission to a personal computer Ricoh Photo Studio Lite.

rect connection to a PC card slot for the SmartMedia card adapter which enables di-A special cable to connect the computer and camera or a PC memory card is required.

- Playback LCD monitor
- TV set (Connects to the TV set with the Video cable that is in-
- A video printer can be connected to the camera for printing still pic-



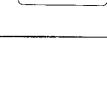
When using this unit for the camera, the DISPLAY Button and the LIVE

Digital camera

Remote control

Remote Control Unit (DR-2)

Button do not function



Power supply

 AC-2 (100V to 240V) AC adapter

AC-2100 (120V)

Power cord

Others Hard case (SC-3)



See "Accessories for RDC-300Z" on page 74 for information on all Ricoh products mentioned above except for the Digital Camera.

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 NiMH batteries NiCad batteries Alkaline batteries

<Batteries>

Connection cable

Connection cable

Recording

supplied Video cable, you can also conmediately on the LCD monitor. With the nect the camera to a TV set to view them. You can playback recorded images im-

Viewing

computer You can transmit your image to a per-

Output

a color printer or color copier. computer, you can print the image with Once image data is sent to your personal

A special controller interface is required for a color copier.

 Supplying power
 Install common AA alkaline batteries and tended use. AC adapter is recommended for exbatteries can also be used. The Ricoh a Lithium battery (CR2025) for clock. Rechargeable NiCad batteries or NiMH

Recording is performed in the SmartMedia memory card. A total of 24 standard mode. images (2MB) can be recorded in the

Image transmission to a personal

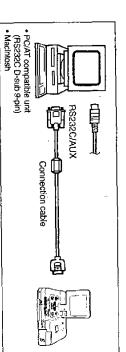
nection cable or the PC card adapter sonal computer using the utility software for the RDC-300Z. Use the special conwhen transferring data.

Accessories for RDC-300Z

computer.		
The PC Card Adapter is equipped with a slot which enables a SmartMedia memory card to be inserted directly into a	FS-A53	PC Card Adapter
This is a SmarlMedia memory card. A maximum of approximately 99 images can be recorded on this card.	FS-4	SmartMedia Memory Card
For recording or playback by remote control. Features a programmed playback function (a presentation tool that enables you to program the sequence of pictures to be played back). This function is available only with this Remote Control Unit.	DA-2	Remote Cantrol Unit
Storage and carrying case for the camera and LCD Monitor.	SC-3	Hard Case
For operating on household AC current, See p.23, "Operation on AC Power."	AC-2 AC-2100	AC Adapter
Remarks	**************************************	i hem 📜 🛓

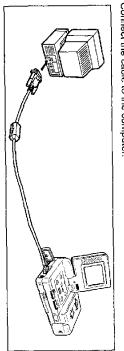
The corporate names and brand names stated above are trademark or registered trademarks of their respective corporations.

Computer and DC Connections



- - Open the side cover of the camera.
 Insert the connection cable terminal to the RS232C/ AUX terminal.





Handling Precautions

- This camera is not waterproof. Take great care to avoid water, rain or spilled drinks. If the camera gets wet, contact your local Ricoh service office.
- Never drop the camera or subject it to strong shock.
- more than is necessary. To avoid overheating the system, do not continuously operate the built-in flash unit
- Protect the camera from sand or dust, especially at the beach or in dusty environments (construction sites, etc.).
- Do not expose the camera to high temperatures or high humidity as for long periods of time such as in a closed car, beach, or bath.
- Turn off the camera before connecting it to the optional AC adapter.
- Keep it in the bag until the temperature difference is minimized.

 If the LCD montor is exposed to sunlight or other bright light, it may appear white and Sudden changes of temperature may cause condensation to form inside and outside into a bag or plastic bag temporarily to minimize any drastic change of temperature. the camera body and lens, resulting in malfunctions. If this occurs, place the camera
- be difficult to observe.
- Some pixels which always lights or do not light may present in the LCD monitor. The brightness may have an unevenness due to the characteristics of the LCD. However, these are not malfunctions.
- Do not pull the terminal cover with excessive force or lift up the camera with it.
- Do not open the LCD monitor while holding the lens cover.
- Always close the LCD monitor when carrying the camera.

Condensation occurs when

- The camera is suddenly brought into a warm place from a cold place
- The camera is used in a location subject to high humidity
- The camera is used in a room right after it has heated up or was in a location subject to direct cool wind from an air conditioner

Caring for Your Digital Camera

Camera Care

- Keep the lens of the camera clean, as stains or did on the lens may degrade the precision of the image quality.
- Do not attempt to remove dust or smears on the lens with your fingers. Use a blower to blow the dust away, or wipe the surface gently with a soft cloth.
- After using the camera at the beach or exposing it to a chemical environment, take special care to wipe off any dirt.
- If the camera does not operate properly, contact Hicoh Service Office. The camera is
 equipped with a hazardous high-voltage circuit. Never attempt to repair the camera by
- as these chemicals may peel off the paint or damage the surface. Keep the camera away from volatile liquids such as thinner, benzene and insecticide yourself.
- Do not scrub on the surface of the LCD monitor with a hard object because it is easy to be scratched or damaged.
- Wipe off the surface of the LCD monitor gently with a moistened soft cloth with thinned detergent and wipe off the moisture with a dry cloth.
- Remove the batteries and AC adapter from the camera before cleaning

Safekeeping

Do not store the camera in a closet with insect repellents, as these may damage the camera and cause a malfunction

Troubleshooting

Before sending the unit for repairs, first refer to the following checklist for a possible solution to the problem. If you still cannot correct the problem, please contact the Ricoh service office.

Power Source Problems

	The batteries go dead quickly.		Sudden loss of power			No power	Problem b
The built-in flash was used too many times because of dark conditions or other reasons.	The batteries were subjected to excessively low or high temperatures.	The batteries are depleted.	The Auto Power-Off function shuts down the camera after several minutes of inactivity.	The Card door is open.	The AC adapter is not connected properly.	The batteries are not positioned properly or are depleted.	Remedy: 1
	I	Replace the old batteries with fresh batteries.	Press the Shutter Release Button more than one second or turn on the power again.	After closing the Card door, turn on the power again.	Reconnect the AC adapter.	Reposition the batteries correctly or replace with fresh batteries.	Remedy

Shooting and Playback Problems

							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	is pressed.	The camera fails to record picture when	Problem
	The Self Timer Mode is selected.	The Card door is open.	The SmartMedia memory card service life is finished.	The SmartMedia memory card has no free area.	The SmartMedia memory card is not formatted.	The SmartMedia memory card is not inserted or it is inserted in an incorrect direction.	Press the Shutter Release Button is pressed down halfway and stays in this position.	The power is off, or the Record/ Playback switch is set to [PLAY].	The batteries are not inserted properly (incorrect polarity) or are dead.	Problem 2
ton to cancel the Self Timer Mode.	Press the Self Timer Mode But-	Close the Card door securely.	Load a new SmartMedia memory card.	Erase the unnecessary images or load a new SmartMedia memory card.	Format the SmartMedia memory card.	Load the SmartMedia memory card correctly.	Press the Shutter Release Button all the way and release it.	Open the LCD monitor. Otherwise, slide the Record/Playback switch to [REC].	Reposition the batteries correctly or replace with fresh batteries.	Remedy

		the monitor.
Slide the Record/Playback switch to [PLAY].	The Record/Playback switch is not set to [PLAY].	The camera fails to playback the data or display an image on
 Include a white object in the subject, or use the flash or fixed white balance.	The image conditions prevent the automatic white balance system from functioning property.	The picture does not show natural colors.
 Turn the brightness adjustment dial to the right or left to adjust the brightness.	The brightness adjustment dial is not set correctly.	
Compensate the exposure with the +/- Button.	The image is underexposed.	
Press the Flash Mode Button to cancel the setting.	The picture was taken in the Flash Off Mode under dark conditions.	The image is too dark.
Turn the brightness adjustment dial to right or left to adjust the brightness.	The brightness adjustment dial is not set correctly.	
 Compensate the exposure with the +/- Button.	The image is overexposed.	
Select the Flash Off Mode.	The flash discharged when distance to subject was less than 60 cm.	The picture is too bright.
Reduce the distance to the subject.	The distance to the subject exceeds approximately 3.0 meters.	The flash discharged properly but the image is dark.
Replace with fresh batteries.	The batteries are dead.	
Press the Flash Button while pressing the AButton and then to set the White Balance Mode to the Auto Mode.	The White Balance Mode is set to Daylight/Fluorescent/Tungsten Light Mode.	
Press the Flash Mode Button to cancel the setting.	The Flash Off Mode is set.	The flash does not work or recharge.
 Use the focus lock or manual focus to take the picture.	The subject is difficult to facus.	
Set the focus lock and then take the picture.	The subject is not in the middle of the shooting range frame.	Mode.
Clean the lens.	The lens is dirty.	us is no
Wipe of the surface area with a soft dry cloth to clean it.	The SmartMedia memory card contact surface is dirty.	
 Wait until the Flash LED stops flashing.	The flash is recharging.	The camera fails to record picture when Shutter Release Button is pressed.
Gil 3		

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	This is not a malfunction.	This condition occurs when a picture is taken of a well-lit subject. It	The image has a vertical trail.
	There is not a malfunction.	The auto focus range and sur- rounding rea brightness are dif- ferent or the shooting area is too dark.	The monitor bright- ness changes during AF operation.
	Replace with the battery a fresh lithium battery (CR2032).	The lithium battery in the remote control unit is dead.	
	Clean both windows.	The reception window on the camera or the transmission window on the remote control unit is dirty.	
	Clear the path between the camera and the remote control unit.	There is an obstruction in the path between the reception window of the camera and the transmission window of the remote control unit.	The Remote Control Unit (optional) is mal- functioning.
-	Close the LCD monitor to turn off the power and then turn on the power again or press the Shutter Release Button more than one second.	The Auto Power-Off system has activated.	,
	Replace the batteries with tresh batteries.	The batteries are dead.	The image on the monitor has disappeared.
	Playback another recorded SmartMedia memory card and if it does not malfunction, the camera is operating normally. Do not use this card because this SmartMedia memory card may be malfunctioning.	The SmartMedia memory card that is being used is malfunctioning.	The image does not playback clearly.
•	Place the camera where it is not close to a noise source. Wipe off the surface with a soft dry cloth to clean it.	A noise source such as a motor is close to the camera. The SmartMedia memory card contact surface is dirty.	
	1	Video connection cable is not correctly connected to the video output terminal of the camera and the input terminal of the TV.	
	Close the Card door securely	An image was recorded in a format that this camera cannot playback. The Card door is open.	
	Load a SmartMedia memory card that has recorded images correctly.	Playback was performed on a SmartMedia memory card that did not record correctly.	
	Load a SmartMedia memory card that was formatted and recorded on this camera.	Playback was performed on a SmartMedia memory card that was not formatted on this camera.	
	Load a SmartMedia memory card which has recorded images.	The SmartMedia memory card is not loaded or else a SmartMedia memory card which has not recorded images is loaded.	The camera fails to playback the data or display an image on the monitor.

■ Other Problems

		The AC adapter is being used. (The Auto Power-Off does not operate when the AC adapter is used.)	
	Confirm the Auto Power-Off Mode setting.	The Auto Power-Off Mode is set off.	The Auto Power-Off Mode does not work.
	Select the mode again.	The batteries are removed.	The camera changes to a mode other than the one selected.
	Select the mode again.	The power is turned off or else the auto power off operated.	memory card cannot be formatted.
	Slide the Record/Playback switch to [PLAY].	The Record/Playback switch is not set to [PLAY].	The camera fails to erase a file. Or the SmartMedia
Ì	Set the date again.	The camera setting contents returned (reset) to the initial setting values.	
	Load new batteries. Set the date again.	The service life of the clock batteries is finished.	The date display is turned off.
	Reset the time and date correctly.	The correct date and time have not Reset the time and date correctly been set.	The date is incorrect.
	2. Set the camera [REC] or [PLAY] again.		
	Remove and reinstall all batteries in the camera.		
	camera to [REC] or [PLAY]. If the camera still fails to function properly, try the following.		
	Close the LCD monitor to turn off the power once and then set the	The camera does not function properly.	
	Replace the batteries with fresh batteries.	The batteries are dead.	The camera buttons and switches do not function.
	Position the SmartMedia memory card in the correct direction.	The SmartMedia memory card insertion direction is incorrect.	
	Insert the recommended Smart- Media memory card.	A non-recommended SmarlMedia memory card is inserted.	The SmartMedia memory card cannot be inserted.
	Remedy		

Ricoh AC-2 AC adapter (optional)

- The AC-2 AC adapter adjusts automatically to voltages ranging from 100 to 240V AC and frequencies of 50 to 60 Hz.
- Some countries use electrical outlets which have different shapes. Before leaving on a trip, obtain the necessary plug adapter from a travel agent or electric store.

Ricoh AC-2100 AC adapter (optional)

The AC-2100 AC adapter can only be used in locatins where 120V AC is used

About the warranty

- A wide range of power supplies can be used from 100V to 240V and 50 Hz or 60
- In countries where the power connector type is different than the electrical plug equipped with the camera, be sure to check with the local service representative before using a conversion adapter.

Viewing the Image on a TV set

- Make sure to check if the TV set operates in the NTSC format with a image input
- The included video connection cable is required
- The NTSC format is used in the following countries

American Samoa	Dominican Republic	Nicaragua
Barbados	El Salvador	Panama
Bermuda	Ecuador	Peru
Bolivia	Guam	Philippines
Canada	Guatemala	Puerto Rico
Chile	Haiti	Surinam
Columbia	Honduras	Taiwan
Costa Rica	Japan	Trinidad and Tobago
Cuba	Mexico	USA
Democratic People's	Micronesia	Venezuela
Republic of Kcrea	Myanmar	

Servicing

- The Ricoh RDC-300Z camera is backed by a one-year limited warranty. During the service office to your residence. note that you will be charged for the cost of shipping the camera from the Ricoh repaired free of charge. In the event of a camera malfunction, contact the dealer warranty period, which starts from the date of purchase, any defective parts will be where you purchased the camera or contact the nearest Ricoh service office. Please
- This warranty does not cover any damage resulting from:

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- (1) Failure to follow the instructions in this instruction manual;
 (2) Repair, modification or overhaul not conducted by authorized service station special fied in this instruction manual;
- Fires or natural disaster;

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- Improper storage, such as exposing the camera to high temperatures, humidity, or insect repellents; storing it with leaking batteries; storing the camera in a dirty condition so that it becomes moldy, or otherwise insufficiently caring for the cam-
- Submergence; exposure to floods or spilled alcoholic or beverages; allowing sand or mud to enter the camera; exposure to physical shocks; or dropping of the
- After a full year has passed from the purchase date, you will become responsible for all repair fees, including those incurred at authorized service station.
- You will be responsible for all repair fees, even within the warranty period, if the been changed or are not indicated on the card. warranty card is not attached or if the distributor's name or the purchase date have
- Expenses for overhauls and thorough inspections as a result of the customer's special request will be charged to the customer, whether or not they occur during the warranty period.

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- g This warranty only applies to the camera and not to the accessories such as the hard case and wrist strap, nor does it apply to the consumables provided, such as batter-
- 7 Any consequential damage arising from the failure of this camera, such as expenses occur during the warranty period or not. for taking pictures or loss of expected profit, will not be reimbursed whether they
- œ The above provisions refer to repairs offered free of charge, and do not limit your legal rights. The intention of the above provisions are also described in the warranty card provided with this camera.
- ø a longer period, do not hesitate to contact your distributor or the nearest Ricoh ser Parts essential to the servicing of this camera - that is, components required to mainvice representative even after the seven-year period. years after the camera is discontinued. However, as some of those parts are kept for tain the functions and quality of this camera - will be available for a period of seven
- 10. Please note that, if the camera is seriously damaged from flooding, submergence able, and restoration to its original condition may be determined to be impossible infiltration of sand or mud, violent shocks or dropping, the camera may not be repair

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 Before sending the camera in for repair, check the batteries and read this instruction manual again to ensure proper operation. Some repairs require a significant amount of time to be completed. Please allow sufficient time for

When sending the camera to a service representative, please include a note which describes the Remove all accessories not related to the problem before sending the camera to a service repredefective part and the problem as precisely as possible.

Before taking any important pictures (such as at weddings, on trips abroad, etc.) test the camera to check its operation and ensure proper functioning. We recommended that you keep this manual and fresh batteries on hand.

Specifications

Power requirement Video signal method NTSC

Dimensions (W \times H \times D)

Operating temperature range Operating humidity range

Camera

Lens

Focal length

Minimum shooting range

Composition

Monitor Display

 Drive system Screen size

Picture elements
 Brightness adjustment

Color temperature Standard setting

Automatic adjustment range : 2800K to 8000K

Fixed adjustment range

• AE range EV memory system Light measuring system

Exposure adjustment

Exposure measurement

Flash AE

Shutter speeds

 ISO sensitivity Aperture

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EV6.3 to EV17

: TTL CCD method

: F 3.8 fixed

Batteries

 $125.8 \text{ mm (W)} \times 36 \text{ mm (H)} \times 72.6 \text{ mm (D)}$

(excluding protruding parts)

Storage temperature range

Approx. 260g without batteries 0°C to 40°C

: -20°C to 60°C less than 85%

Zoom lens F: 3.8 1/4", 350,000 pixels (effective 330,000 pixels) VGA Progressive scan, Square Pixel, RGB filter

: Wide angle ([+] side) approx. 1cm : f:5~15 mm (45 to 135 mm equivalent on a 35mm

9 elements in 6 groups Telescope ([4] side) approx. 20cm

: 1.8 inch (36.9 mm (W) × 27.5 mm (H)) : 61,380 dots (279 (H) × 220 (V)) : TFT active matrix system Brightness adjustment dial is attached

: 4200 + 50K

: Fluorescent light 4000K Daylight 5100K Tungsten light 3200K

: With automatic backlight control program Centerweighted Manual exposure adjustment range ± 2.0EV (in 0.5 EV increments)

: Still picture: 1/5 to 1/8000 (electronic shutter) Equipped (with daylight synchro)

: Equivalent to ISO 80

Distance adjustment

Focus lock

AF method

 TTL-CCDAF method

 AF measurement distance range: 0.01m to ∞ (wide angle), 0.20m to ∞ (other than wide angle)

: Focus lock when the Shutter Release Button is pressed haifway.

 Manual distance adjustment : In the manual focus mode, press the ▲ ▼ Buttons to operate.

Built-in flash

 Effective distance Method
 Interval between flash

G no. Operating modes

> : Automatic : 5 sec. maximum : 0.6 m to 3.0 m 10 (ISO100)

OFF/ON/AUTO The flash is turned off when the fixed White Bal-

ance Mode is set.

640 × 480 (VGA) JPEG (Exit.1)

Picture element

Image Data Recording

File format

Based on the JPEG base line method

Approx. 80KB/image Approx. 160KB/image Approx. 40KB/image

Image size Economy mode Compression method

Normal mode Fine mode

5 V (AC adapter) 1.0 Vp-p (75Ω) Special

Power input Video output RS-232C/AUX

■ Input/Output

■ Body

Tapped hole for tripod

1/4-20 UNC 5.7 mm max, bolt length

AA alkaline batteries AA NIMH batteries

Batterles of main unit

Battery types

Power Supply

AA NiCad batteries

6 V (1.5V x 4 cells)

3 V 160mAh Lithium battery CR2025

Approx. 1 year

Service life
 Auto Power-OFF System

Battery type

Voltage

Clock battery

Voltage

Recording: Activates when the camera is not used Playback: for approx. 2 minutes.
Activates when the camera is not used

for approx. 5 minutes.

Possible types of recording/playback memory cards

Memory type

Capacity

Operation voltage

SmartMedia memory card (NAND flash memory)

: 2MB, 4MB, 8MB : 3.3V, 5V

Number of Recorded Images

the SmartMedia memory card are shown below. The maximum number of recorded images for different capacity and recording modes of

8MB	4MB	2MB	Tybe of Smartwedlay
Approx 49	Approx 24	Approx 12	Fine Mode
Approx. 99	Approx. 49	Approx. 24	Inage Mode Normal Mode
Approx. 199	Approx. 99	Approx. 49	Economy Mode

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INFORMATION TO THE USER

USA FCC Part 15 Class B

ment off and on the user is encouraged to try to correct the interference by one or ence to radio or television reception, which can be determined by turning the equipwill not occur in a particular installation. If this equipment does cause harmful interferference to radio communications. However, there is no guarantee that interference tion. This equipment generates, uses, and can radiate radio frequency energy and, if provide reasonable protection against harmful interference in a residential installa-This equipment has been tested and found to comply with the limits for a Class digital device, pursuant to part 15 of the FCC Rules. These limits are designed more of the following measures: not installed and used in accordance with the instructions, may cause harmful inter-

- 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.
- ance could void the user's authority to operate the equipment. (FCC 15.21) Changes or modifications not expressly approved by the party responsible for compli-Consult the dealer or an experienced radio/TV technician for help. (FCC 15.105B)

AC adapter with ferrite core must be used for RF interference suppression to host computer in order to meet FCC emission limits. (FCC 15.27) Properly shielded and grounded cables and connectors must be used for connection

COMPLIANCE INFORMATION STATEMENT

Product Name: Ricoh Digital Camera Model Number: RDC-300Z

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

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation

RICOH CORPORATION

475 Lillard Drive

PHONE NUMBER:702-352-1600 Sparks, Nevada 89434

FAX NUMBER:702-352-1615

CANADA Class B

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

sur le matériel brouiltéur du Canada Cet appareil numérique de la classe B respecte toutes les exigences du Réglement

THE RISK OF FIRE OR ELECTRIC SHOCK,CAREFULLY FOLLOW THESE INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS DANGER-TO REDUCE

Ricoh Service Offices

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http://www.ricah.ca.jp/

Ricoh Corporation U.S.A. Sparks, Nevada 89434 475 Lillard Drive http://www.ricohcpg.com/

P.O. Box 114 E-mail:camera@ricoh.n/ http://www.ricoheurope.com/ http://www.ricoh-red.com/ 1180 AC Amstelveen Ricoh Europe B.V.

Germany D-40472 Düsseldorl Oberrather Straße 6 Düsseldorf Branch Ricoh Europe B.V.

Hong Kong 24/F., China Overseas Building, Unit D, E&F, Ricon Photo Products(Asia), Ltd ⊺39 Hennessy Road, Wan Chai

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