





Operation Manual

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

Introduction

precautions. Read this manual carefully to understand the proper use of the camera. Please keep this manual handy for easy reference. This manual contains instructions on the proper use of your camera as well necessary as handling Thank you for purchasing the Ricoh RDC-2 Digital Camera.

Ricoh Co., Ltd

Testing the camera

Test the camera by taking several sample pictures to confirm that the pictures are correctly recorded

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About digital audiovisual files

failure of a memory card We regret that we cannot be responsible for files lost due to any malfunction of the camera or any

About the warranty

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

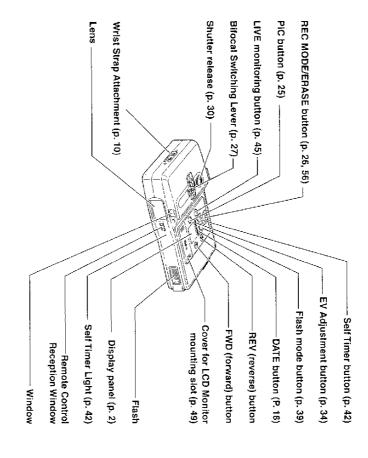
Radio-frequency interference

television. If such occurs, complete the following proceedures: and nearby devices. Interference is likely to occur when the camera is placed near a radio or Using the digital camera near electronic devices could inhibit the performance of both the camera

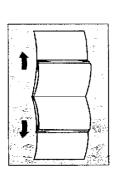
- Relocated the camera as far as possible from the interference source.
- Change the orientation of the radio or television antenna.
- Plug the camera into a different electrical outlet.
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Camera Description (1)

■Camera Body

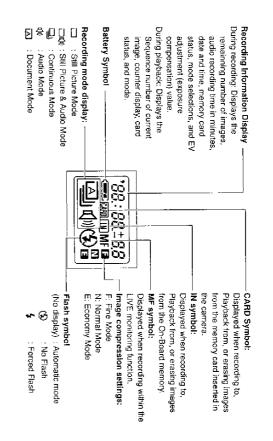


While reading this manual, leave the inside and outside flaps open for easy reference to the camera's components.



Display Pane

Camera Status is shown on the DisplayPanel



Notes:

- In this illustration, all available symbols are displayed concurrently. In practice, however, the display
 will vary depending on use and settings.
- If no buttons or levers are operated for approximately 5 minutes while the main switch is set to [REC], the Auto Power-Off function dims the display panel to save power (requiring that only a small amount of battery power be consumed). To turn the power back on, lightly press the shutter release button
- See p. 61 for information on adjusting the Auto Power-Off setting

■Display Panel Messages

When the following is displayed, confirm the contents and respond accordingly.

Message	Condition	Description	Ref. page
nα ία rd Light is on	Light is on	Memory card is selected but no memory card is inserted.	p.16
,	Light is blinking	Memory card is not initialized.	p.16
00 FO		Memory card was initialized in another device.	
		Data in the memory card is damaged. (Initialize the memory card.)	
		incompatible memory card is inserted.	p.14
33, ou	Light is blinking	Memory card is write-protected.	
£483 œ	Light is blinking	Insufficient free memory available on memory card to copy selected images from internal memory. Replace the merrory card.	p.16
Û	Light is on	The batteries are getting low.	p.11
	Light is on	The batteries are depleted.	p.11

■Error Display and Description

When the following is displayed, confirm the contents and respond accordingly.

Error message	Description	Ref. page
Er. rE C	Failed to record. Playback may be impossible. Record the data again.	
Er. Er 05	Failed to erase. After turning off the main switch, turn the power back on, then shoot a test shot. When the test shot is erased,the data that was not erased will be erased at the same time.	p.55
no Fo	Failed to initialize. Try again.	p.16
Er. Pt AY	Failed to play back the data. Turn the power off and then on, and try again.	p.52
<i>Er. ፒፀ የ</i> ሄ	Failed to copy the data. Try again.	p.60

■ Displays for Recording, Playback, Deleting and Copying

The following messages will appear on the display panel during operation.

Recording

Display	Function	Ref. page
S ELF	Self-Timer shots.	p.42

Playback

Display	Function	Ref. page
Pc	Program Playback	_

Note: The optional DR-2 Remote Control Unit is required for program playback.

●Erasing

Display	Function	Ref. page
Fo	Initializing memory card.	p.16, 57
E ra SE	Erasing image.	p.55

◆Copying

Display	Function	Ref. page
(8 PY	Copying memory contents.	p.60

■ Display during data checking

When a memory card is inserted and the main switch is then set to [REC] or [PLAY(PC)], the camera begins to check the data on the memory card. Bars (-) are displayed on the display panel to indicate the progress of the data checking operation. Once six bars are displayed, data checking is complete.

Note: No bars will be displayed when using certain types of memory cards.

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Basic Operation

Preparing the camera

Preparing a power source

(1) Insert batteries into the camera

the AC Adapter to the camera body first, outlet. See p. 13. then plug the adapter into an electrical Note: When using the AC Adapter, connect See p. 11.

Preparing a memory card

① Insert a memory card. See p. 16. ② If using a new memory card, first

initialize the memory card. See p.

is being recorded to the internal memory. Note: A memory card is not required if data

Recording

- See p. 23.
- ② If a memory card is inserted, press the SELECT button to select the
- picture quality. See p. 25.
- 4 Press the REC/ERASE button to select the REC MODE. See p. 26.
- ⑦ Press the shutter release button all short "beep" sounds to confirm the way to record. See p. 31. A





Transferring data to a computer Use of the connection cable is

required. See p. 60.

Playback a image

(1) Connect the camera to a TV

- ① Slide the main switch to [REC].
- destination drive for recording. See
- 3) Press the PIC button to select the
- ⑤ Compose the picture and select standard or wide-angle view. See
- ⑤ Press the shutter release button halfway down to focus. See p. 30.
- recording

Safety Precautions

designated as follows: Please read all safety notes in this mannal to use this product safety. Safety notes are

⚠Warning This symbol indicates mishandling that may result in a serious injury or even death.

∕!\Caution This symbol indicates mishandoling that may cause injury to the user as well as damage to objects

To ensure safe operation of your new equipment, please observe the following precautions.

/ WARNING

- It is dangerous to use this device if any sign of malfunctioning is apparent, such as an unusual odor or smoke. In such cases, immediately unplug the power plug from the electrical outlet (if using an AC Adapter), as a fire or shock hazard may be present. Contact a Ricoh service representative. Do not continue to use a malfunctioning camera.
- When connecting the camera to a standard AC electrical outlet, use only Ricoh's optional AC-2 AC Adapters. Use of any other AC adapter may cause a fire, electric shock or product failure

⑤ To playback an image - except one recorded in Still Picture Mode or

Document Mode - press the shutter

release button. See p. 53-54. An

image is displayed on the monitor

④ Select the image to be played with the FWD and REV buttons. See p.

played. See p. 52.

If a memory card is inserted, press

[PLAY(PC)]. See p. 52.

the SELECT button to select the

drive containing the image to be

② Slide the main switch to

Note: The camera can also be used with

monitor. See p. 48

the Ricoh LCD Monitor. See p. 49.

To ensure safe operation of your new equipment, please observe the following precautions.

CAUTIONS

- Do not disassemble or attempt to repair the camera. The camera contains a high-voltage, high-current circuit capable of causing an electric shock.
- If the flash is damaged or exposed, do not touch the inside. The camera contains a high-voltage, high-current circuit capable of causing an electric shock.
 If the camera is damaged, bring it in to the dealer where you purchased it or to a Ricoh service representative.
- Never dispose of the batteries in a fire, short-circuit the terminals, attempt to disassemble, heat, or recharge the batteries (only nickel-cadmium [NiCad] batteries and nickel-metal-hydride [NiMH] batteries can be recharged). Doing so may damage the batteries and cause a fire, injury or environmental contamination.
- Do not solder the batteries. Doing so may damage the batteries and cause a fire, injury or environmental contamination.
- Liquid leaking from a battery can cause skin burns. If you touch a damaged battery, immediately wash your hands with water (do not use soap).
 If a battery leaks inside the camera, carefully remove the battery, thoroughly wipe off the leaked liquid, and insert a new battery.

Using optional accessories

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When using optional accessories such as the Remote Control Unit or AC Adapter, be sure to read the safety precautions in the manuals provided with each accessory.

Chapter 1. Getting Started

Before Using the Camera

Confirming the package contents

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

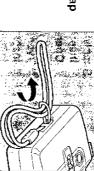
Jigital Camera (Camera Body)1	
4V Cable	
Soft Case 1	
AA Alkaline Batteries 4	
Wrist Strap1	
Operation Manual (this document)1	
Varranty	

For security, always use the wrist strap as indicated in the illustration.

To attach the wrist strap, loop the leading end through the wrist strap lug of the camera

Note: Avoid swinging the camera as itis carried.

when carrying the camera.



Supplying Power to the Camera

household current. The camera can be powered either by common AA alkaline batteries or by standard AC

inserting batteries

Insert the AA alkaline batteries to begin using the camera

(NiCad) batteries or nickel-metal-hydride (NiMH) batteries. Note: The camera can also be powered by commercially available rechargeable nickel-cadmium

△CAUTIONS

- Never dispose of the batteries in a fire, short-circuit the terminals, attempt to so may damage the batteries and cause a fire, injury or environmenta batteries and nickel-metal-hydride [NIMH] batteries can be recharged). Doing disassemble, heat, or recharge the batteries (only nickel-cadmium [NiCad] contamination.
- Do not solder the batteries. Doing so may damage the batteries and cause a fire, injury or environmental contamination.
- Liquid leaking from a battery can cause skin burns. If you touch a damaged battery, immediately wash your hands with water (do not use soap). If a battery leaks inside the camera, carefully remove the battery, thoroughly wipe off the leaked liquid, and insert a new battery.

About rechargeable batteries

precautions provided with each product. Before using commercially available NiCad or NIMH batteries, thoroughly read the safety

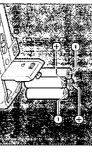
- Use only AA-type batteries
- Never use manganese batteries, lithium batteries, or any other type of battery not specifically recommended. Use of such batteries may damage the camera or monitor.
- Some batteries may become hot after a long period of use.

ö

on the camera's power sources Note: See p. 23 "Turning on the power" for information

2 Insert the batteries. Carefully note the properbattery polarities (positive [+] poles and negative [-] poles).







OClose the battery cover.

Recording and playback capacities

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

Type of battery	Number of recordable standard images (Still pictures)	Standard playback time (Still pictures)
AA alkaline batteries	Approximately 300 images	Approximately 2 hours

- The above capacities are based on Ricoh's measurement standards
- Battery life varies with flash use and other variables.
- Results may vary by type and brand of battery.
- The standard playback time refers to playback on a TV monitor.
- Use of the optional LCD Monitor during recording and playback will reduce the above values.
- spare set of batteries. Whenever you do not have access to an electrical outlet, we suggest that you always carry a
- depleted. Prepare spare batteries The battery symbol (appears on the display panel to indicate that the batteries are weak or

complete depletion of the batteries is shorter than when alkaline batteries are used With rechargeable NiCad or NiMH batteries, the time between lighting of the battery symbol and

■ Safety Notes

- Be sure to maintain the correct polarity (positive [+] and negative [-] poles) when inserting the batteries.
- Do not use damaged batteries or batteries that are near the end of their service lives
- Do not place batteries near a heat source or dispose of them in a fire
- Do not subject the batteries to strong impact.
- Do not mix batteries of different types, brands, manufacturers, or ages

Operating on AC power

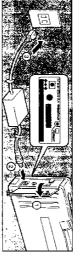
advisable to connect the camera to a household electrical outlet with the optional AC If you intend to use your camera to record or play back over a long period of time, it is

∆CAUTIONS

 When connecting the camera to a household electrical outlet, use only Ricoh's optional product failure. AC-2 AC Adapters. Use of any other AC adapter may cause a fire, electric shock or

About the AC Adapter

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



Adapter.) connect the Ricoh AC-2 AC (The illustration shows how to

- Confirm that the main switch of the camera is set to POWER (OFF), then open the side cover of the camera.
- Connect the connection cable of the AC Adapter to the power (DC IN 6V) terminal of the camera.
- (a) Insert the plug into an electrical outlet

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

Important: --

- Plug the power cord firmly into the power source and into the camera. If the power plug or connecting cable loosens during recording, data could be lost or damaged.
- always set the main switch of the camera to [POWER (OFF)] before connecting the AC Adapter example, during recording, playback or erasing), data can be damaged or destroyed. Therefore, When the AC Adapter is connected to the camera, the power supply to the camera is temporarily interrupted during the change of power source. If this occurs while the camera is in use (for

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London March Street, Street, Sec.

p. 18 "Before you begin Recording." This section explains how to use a memory card. If you are not using a memory card, see

Types of Memory Cards

corded onto the memory card. ATA Memory Cards incorporating flash memory are optionally available. See p. 66, "Accessories for RDC-2" When the memory card has been designated as the memory source, the data is re-

ance may vary using other manufacturers' cards. Note: Camera performance specifications based upon Ricoh's ATA Flash Memory Card. Perform-

One of the following card types is recommended:

- Flash memory cards conforming to ATA standard
- Type I or Type II cards conforming to PCMCIA 2.1, JEIDA 4.2 standard Type I or Type II cards conforming to PCMCIA 2.1, JEIDA 4.2 standard (Maximum Capacity 40 MB memory, memory write cycle: 300 ns max.)

 Flash memory cards conforming to AIMS standard
- Flash memory cards conforming to AIMS standard (Maximum Capacity 40 MB) Nuclius (

- votes:
 Some ATA cards may not be tully compatible with this camera. Ricoh ATA cards are recommended to ensure compatibility.
- Some commercially available ATA memory cards require longer recording times:
- This camera cannot use SRAM cards.

■Handling Precautions for Memory Cards

- Do not bend, drop, or subject the memory card to shock.
- Avoid using or storing the memory card in an environment conducive to static electricity or electromagnetic interference.
- Avoid using or storing the memory card to heat, moisture, or dusty or corrosive environments.
- Do not allow dirt or foreign objects to contact the connectors.
- Do not place the card near a heat source or dispose of them in a fire.
- Memory cards have a limited life expectancy. After prolonged use, the card may be unable to record data.

A note about recorded images...

- Recorded data can be lost if the memory card malfunctions or is repaired, or is if you experience malfunctions during recording or playback. note that Ricoh cannot be responsible for any loss of or damage to recorded images mishandled or subjected to static electricity or electromagnetic interference. Please
- Never remove the batteries, turn off the power, or connect the AC Adapter to the camera while recording data on the memory card. Doing so may damage or destroy data on the memory card

Getting Started

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Before inserting a memory card, make sure the main switch of the carnera is set to [POWER (OFF)]

Note: Do not insert or remove a memory card while the camera power is turned on

■ Inserting the memory card

Open the side cover of the camera.

With the front surface of the card facing with the card slot opening. slot. Push the card all the way into the slot until the trailing edge of the card is flush up, insert the memory card into the card



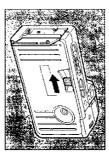
Note: When inserting the memory card, be sure the card is not upside down, backward, or

Removing the memory card

in the illustration. lever in the direction of the arrow shown To remove the card, slide the card ejection

 Do not remove the card while recording data to the card. Doing so may damage or destroy the data on

 Do not use the memory card ejection lever while the side cover is closed.



Initializing the memory card

Some types of memory cards require more than a minute for initialization

Initialization cannot take place if a Continuous Still Picture or Audio is currently in pause state

After approximately 4,000 playback and erase cycles.

When you wish to erase all data in the memory card.

We suggest that you initialize the memory card in the following cases.

Keeping the memory card in good condition

Initialization erases all data recorded on the memory card. Erased data cannot be recovered.

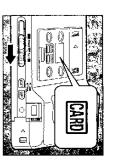
Important: --

device such as a personal computer, you must initialize (or "format") the card in the Before using a new memory card or a memory card that has been initialized in another

Note: Confirm that a memory card has been inserted. See p. 16, "Inserting a memory card."

Slide the main switch of the camera to

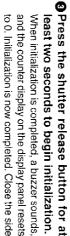
display panel. If the IN symbol appears on the the CARD symbol. button for approximately one second to display display panel instead, press the Memory Select Confirm that the CARD symbol appears on the



drive for recording." Note: For information on using the Memory Select button, see p. 24 "Designating the destination

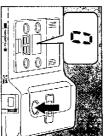
Open the side cover of the camera, and Stop pressing when "Fo" appears on the display ball-point pen or simular object. press the Format button with the tip of a

that has a sharpened point or is easily broken Nate: Do not press the Format button with any object









cover and begin using the carmera.

Getting Started

Salar Carlotte Contraction

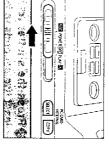
6

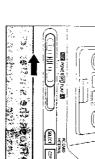
This section explains initial camera adjustments and basic camera operations.

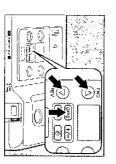
Adjusting the date and time

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 recorded. You should set the

- Input the date and time in the following format:yy/mm/dd
- The camera uses a 24-hour clock, where 0:00 indicates midnight and 12:00 indicates noon.
- Slide the main switch of the camera to







Press the FWD button or the REV button

Press and hold the DATE button for more

than two seconds.

On the display panel, the year designation begins

to set the correct year

To advance the number

to fast-forward the numbers Press the FWD button. Press and hold the button

To reverse the number

Press the REV button. Press and hold the button

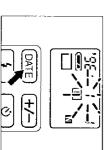
Set the other date and time numbers in to reverse the numbers rapidly.

the same manner.

order) the year, month, day, hour and minute. Press the DATE button repeatedly to select (in to set the correct numbers. flashing, press the FWD button or the REV button When the selected date or time designation is

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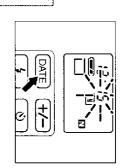


After setting the minutes, press the DATE button again to start the clock.

Note: To adjust the seconds, press the DATE button

date, time, and normal displays on the display Press the DATE button repeatedly to display the Confirming the date and time settings

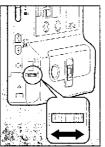
appears when you press and hold the DATE button for two seconds or longer. Note: Remember that the date & time setting mode



Adjusting the diopter

Adjust the diopter so that the subject can be clearly seen in the viewfinder

Rotate the diopter adjusting dial up or subject can be seen clearly. down to adjust the viewfinder so that the



Holding the camera

• We suggest you hold the camera securely against your sides, steady the camera by gently pressing it against your face, and illustration. Hold your elbows lightly with both hands as shown in the

look through the viewfinder.

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



Place your index finger lightly on the shutter release button.

- If you hold your index finger too far from the shutter release before pressing, the camera may shake and a blurred picture may result.
 Holding the camera upright will result in the subject being displayed sideways.
- Be sure to keep your fingers, hair, and the wrist strap, etc., away from the camera lens and flash window.





Chapter 2: Recording Basics

Basic Picture-Taking

This chapter explains basic operations and other information needed to record images.

Picture-taking sequence

How to take a picture in Still Picture Mode

Turn on the power.

Slide the main switch of the camera to [REC]. See p. 23

Choose the destination drive for recording.

the destination drive for recording the images. See p. 24. card is inserted, you can select either the memory card or the internal memory as The camera normally records images to its internal memory. However, if a memory

Select the image quality.

Select the desired image quality - either F, N, or E. See p. 25

Select the recording mode

Select the desired view.

See p. 27. Select either standard view or wide-angle view with the Bifocal Switching Lever.

Look through the viewfinder.

Look through the viewfinder to compose the image. See p. 28

Confirm the indicator lights.

Press the shutter release button halfway down to confirm the camera status (the Auto-focus and Flash indicators). See p. 29.

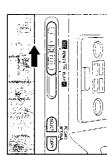
Take the picture.

Press the shutter release button to record the image

is being checked. CARD symbol appears on the display panel, indicating that the data on the memory card Turn on the power with the main switch of the camera. If a memory card is installed, the

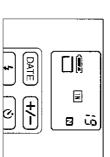
Slide the main switch to [REC].

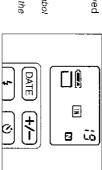
The lens cover opens.



on the display panel Power is turned on and information is displayed

- When a memory card is inserted, the CARD symbol appears on the display panel.
- When the main switch is set to [POWER OFF], the power is turned off, and the lens cover closes





The Auto Power-Off function

main switch is set to [REC], the Auto Power-Off function dims the display panel to To turn the power back on, lightly press the shutter release button. save power (requiring that a small amount of battery power be consumed in this state) If no buttons or levers are operated for approximately 5 minutes or longer while the

Canceling and retaining mode settings

table below). To continue shooting in the same mode, select the mode again. When the power to the camera is turned off, some mode selections are canceled (see

Mode	Auto Power-Off	Main switch OFF
Drive designation	0	×
Recording mode	0	0
Resolution .	0	0
Flash mode	0	×
EV adjustment	×	×
LIVE monitoring function	×	×

Selected mode is retained. x: Selected mode is canceled.

If the camera will not be operated for a long period of time, switch the main switch to [POWER (OFF)].

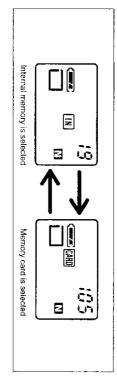
and Buzzer settings. You can override the Auto Power-Off setting. For details, see p. 61 "Auto Power-Off

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You can designate whether data is recorded in the internal memory of the camera or onto an inserted memory card.

■Destination drive symbols on the display panel

Press the SELECT button to select the destination drive. Internal memory is selected. Memory card is selected.

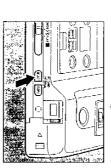


Note: Follow the same procedure to change the drive in any operation

■Designating the destination drive for recording

selected destination drive for recording. The symbol on the display panel indicates the destination drive for recording. mately one second to change the selected Press the SELECT button for approxi-

memory, see p. 78 "Memory Storage Capacity." Note: To determine the number of images recordable in

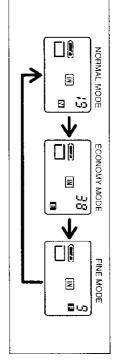


Selecting the image qua

images recordable. You can select the desired image quality for each image recorded gives priority to picture quality, and E (Economy) mode gives priority to the number of large amount of information to be recorded. N (Normal) mode is standard, F (Fine) mode This digital camera employs data compression and decompression schemes that allow a

■PIC Mode symbols on the display panel

Press the PIC Mode button to select the desired image mode



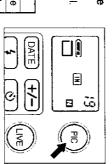
Selecting the image quality

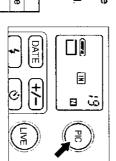
Press the PIC Mode button to select the image quality.

The selected symbol appears on the display panel

Standard capacities for image data

Image quality	lmage size
F Mode	Approximately 192 kB/image
N Mode	Approximately 96 kB/image
E Mode	Approximately 48 kB/image





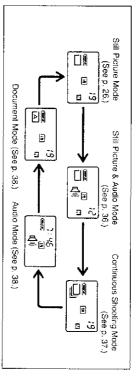
78 "Memory Storage Capacity." For information on the number of images recordable at the various image quality settings, see p.

Selecting a Recording Mode

can easily select the desired mode. Five recording modes are available, including Still Picture Mode and Audio Mode. You

■Recording mode symbols on the display panel

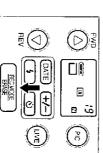
Press the REC MODE/ERASE button to select the desired mode.



Note: The recording mode selected affects the number of images and/or time of sound that can be

■ Selecting Still Picture Mode

on the display panel. repeatedly until the [] symbol appears Press the REC MODE/ERASE button

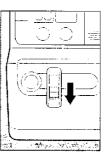


Selecting standard or wide-angle view

subject without changing the distance from the camera to the subject. angle view of the subject in the viewfinder. This allows you to change the view of the By moving the Bi-focal Switching Lever, you can switch between a standard or wide-

■Selecting standard view

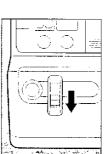
Slide the Bi-focal Switching Lever to the [4] side. The subject appears closer.

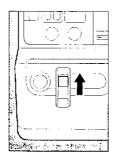


Selecting wide-angle view

Slide the Bi-focal Switching Lever to the

The subject appears farther away





Recording Basics

A TRANSPORTED SEE

Compose the image while looking through the viewfinder.

take a test picture beforehand to confirm the image captured by the camera. Note: When shooting at distances of 0.25 m or less, or when exact image composition is desired.

① Shooting frame Enclose the subject within this frame.



(2) Short-distance compensation frame (Standard view

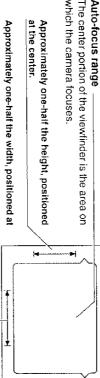
0.25 m and the lens is set to Standard view, enclose the subject within this frame. When the distance to the subject is approximately



Approximately one-half the height, positioned

3 Auto-focus range

which the camera tocuses.

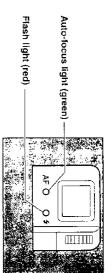


for clarity only. The actual viewfinder is not colored. Note: The colors in the illustration of the viewlinder are

Θ	0.25 (0.82 ft.) ~ ∞	Wide-angle ([♠] side)
Θ	3.0 m (10 ft.) ~ ∞	
2 ~ D	0.25 ~ 3.0 m (0.82 ft. ~ 10 ft.)	
2	0.25 m (0.82 ft.)	Standard ([🌢] side)
Shooting range	Distance to subject	Lens

Indicator lights

indicator lights (below the viewfinder) light or flash to indicate the status of these functions When the shutter release button is pressed halfway down, the Auto-focus and Flash



Auto-focus indicator light (green)

Status	Description	Shutter release button Ref. page	Ref. page
Lit	In focus	Can be pressed.	p.31
Rapid flashing	Rapid flashing Focusing not assured.	Can be pressed.	p.32
Slow flashing	Take picture after confirming range Can be pressed.	Can be pressed.	p.32
	on monitor.*		

 When the distance to the subject is approximately 25 cm or less, the field of view in the viewfinder function or the Macro shooting function can be quite different from that of the camera lens. For best results, use the LIVE monitoring

See "LIVE Monitoring Function" on p. 44, and "Macro Shooting" on p. 46

Flash indicator light (red)

Status	Description	Shutter release button Ref. page	Ref. page
ΕĦ	Flashing	Can be pressed.	p.31
Rapid flashing	Rapid flashing EV adjustment is inappropriate.** Can be pressed.	Can be pressed.	p.33, 40
Slow flashing	Slow flashing Flash is recharging.	Can not be pressed. p.31	p.31

** The exposure may be insufficient when shooting in No-Flash Mode or with Document Mode When the distance to the subject is approximately 25 cm or less, the flash may result in overexposure. selected as the recording mode.

Shooting in Still Picture Mode

"Holding the camera," for hints on how to hold the camera still while shooting This section explains the basics of shooting in Still Picture Mode. Please refer to p. 19

Look through the viewfinder to compose the image.

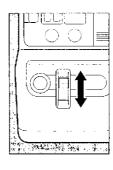
Note: When shooting a subject at a distance of approximately 1 to 25 cm, use the LIVE monitoring function or Macro function for best results

See "LIVE Monitoring Function" on p. 44, and "Macro Shooting" on p. 46.



Select the desired view of the subject with the Bi-focal Switching Lever.

Note: To select the view of the subject, see p. 27 "Selecting Standard or Wide-Angle View." For the Viewfinder." information on the viewfinder, see p. 28 "Looking through



With your index finger, press the shutter release button halfway down.

automatically brings the subject into focus. To and hold the shutter release button halfway down record the image, continue pressing the shutter to activate the auto-focus mechanism, which release button all the way down. The shutter release button has two steps. Press



function. See "Focus-lock" on p. 43. brought into focus. If the subject is not at the center of the auto-focus range, use the focus-lock Note: When the subject is in the center of the viewlinder, it is in the auto-focus range and is

> indicator lights. When the subject is in focus, the green Auto-focus

- While the Flash is recharging, there may be a delay before the Auto-focus mechanism begins functioning.
- picture. that the Auto-focus indicator lights before taking the may result in an out-of-focus image. Be sure to confirm before allowing the auto-focus mechanism to function Pressing the shutter release button all the way down

See p. 29, "Indicator lights," for information on the Auto-

Keep your finger on the shutter release button, then smoothly press the button all the way down.

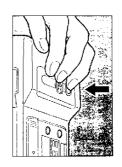
recordable images is reduced by one. image has been recorded. The number on the A short "beep" sounds to confirm that the subject display panel indicating the remaining number of

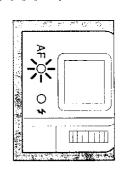
- When the camera is connected to an optional Ricoh is displayed for approximately three seconds, allowing the focus of the captured image to be easily confirmed LCD Monitor or to a TV monitor, the captured image
- The buzzer audio can be turned off. See p. 62 "Turning the Buzzer On or Off."

shutter release button is pressed halfway down. conditions, the red Flash indicator lights when the When shooting in a dark area or in similarly difficult

Note: When the Flash is recharging, the Flash light tlashes and the shutter release button cannot be

₽ O

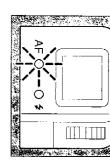






- ① Move away from the subject slightly to take the picture.
- © Put the subject in focus with the LIVE monitoring function.
- ⑤ Focus on a different subject located at the same distance as that of the desired subject.

For information on the LIVE monitoring function, see p. 44, "LIVE Monitoring Function." For more information on focusing, see p. 43 "Focus-lock."



Subjects that cause focusing problems

The following subjects tend to be difficult to focus:

- Subjects with no contrast (sky, white walls, car hoods, etc.)
- Straight horizontal lines
- Fast-moving subjects
- Subjects under low lighting conditions
- Subjects with strong backlighting or under reflected light
- Flickering subjects, such as fluorescent tubes

In such cases, focus on a different subject located at the same distance as that of the desired subject.

For more information on focusing, see p. 43 "Focus-lock."

■ Auto-white balance

To shoot a subject with natural hues, the "white balance" (compensation for the whiteness of a subject under varied lighting conditions) is automatically adjusted, with the light-colored portion used as reference. For this reason, the white balance sometimes cannot be adjusted when the subject has a small light-colored area. In such a case, include a light-colored subject when composing the picture.

Subjects that complicate white balance:

- Monotone subject
- Subject with many light sources
- A deep background when shooting with the flash

Exposure compensation (EV adjustment)

When there is a significant difference in brightness between the background and the subject, the subject may be underexposed (too dark) or overexposed (too light). In such cases, compensate the exposure with the EV adjustment. This function allows you to intentionally underexpose or overexpose an image.

- EV adjustment range
- ±1.5 EV (in 0.3-EV steps)

Shooting with backlighting

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

Note: In backlit conditions, place the subject at the center of the shooting range.

If the subject is not placed at the center of the shooting range, the camera cannot determine the backlit conditions. In this case, make an EV adjustment.

Shooting too light images

When shooting a too light image, the entire image is underexposed. The image of the subject is recorded as too dark and light-colored subjects are recorded as grayish. In such cases, increase the value to the positive (+) side to compensate the exposure.

Shooting too dark images

When shooting a too dark image, the entire image is overexposed. The image of the subject is recorded as too light and light-colored subjects are recorded as grayish. In such a case, increase the value to the negative (–) side to compensate the exposure. Follow the same procedure as when shooting a spot-lighted person image.

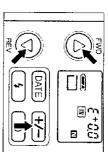
■EV adjustments

Press the FWD or REV button to set the Press the +/- button to display the compensation value on the display panel.

After adjusting the value, take the picture.

compensation value to be set.

Press the FWD button. Adjusting the exposure by 0.3 EV



Reversing the adjustment value by 0.3 EV Press the REV button.

To cancel the setting, press the +/- button again

- About the EV adjustment

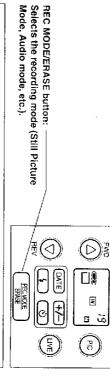
 © To confirm the effect of the EV adjustment on the recorded image, watch the image that appears on the screen for approximately three seconds after the picture is taken, or play back the screen.
- ② The EV adjustment value (if any) is displayed on the screen when the LIVE monitoring function is used. In addition, the image on the screen shows the effect of the adjustment (i.e., the screen brightness changes).
- ③ The EV adjustment value can be set to within +1.5 EV. The adjustment displayed with the LIVE monitoring function is limited to the range of +1.5 EV to -0.6 EV. Confirm adjustments outside this range (-0.9 EV to -1.5 EV) with the method outlined in (1) above.
- ${\it 3}$. The EV adjustment value is retained in memory even when the EV adjustment setting is released. However, the EV adjustment setting affects only the images recorded when EV adjustment mode

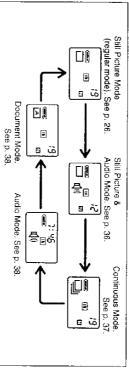
Chapter 3. Advanced Techniques

This section explains the various recording modes and how to select the desired mode

Selecting a Recording Mode

Press the REC MODE/ERASE button to select a desired recording mode.





Note: The recording mode selected affects the number of images that can be recorded and the operating time.

Still Picture & Audio Mode

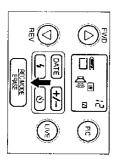
This mode allows you to record audio - for approximately 10 seconds - after shooting a still picture. This feature is convenient if you would like to add sound to enhance your digital images.

Note: The built-in microphone is located in the rear of the camera, If necessary,direct the microphone toward the audio source.

OPress the REC MODE/ERASE button until

[\(\precequiv) \) appears on the display panel. Press the shutter release button to shoot a still picture. The Audio mode symbol ([q\(\preceq\)]) starts flashing on the display panel to show that the camera has begun audio recording. You can record audio until the Audio mode symbol stops flashing (approximately 10 seconds).

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Canceling the selected mode

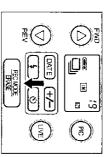
Press the REC MODE/ERASE button again to select another mode.

Continuous Mode

This mode enables you to shoot a sequence of still pictures by holding down the shutter release button. The focus is locked at the moment you press the shutter release button. The camera records the pictures sequentially at a rate of approximately one frame per second. This feature allows you to capture images as if a motor drive was attached to your camera.

● Press the REC MODE/ERASE button until [□] appears on the display panel.

The camera will continue to shoot at a rate of approximately one frame per second as long as the shutter release button is held down. When you remove your finger from the shutter release button, the camera stops shooting.



- remove your finger from the shutter release button, the camera stops shooting.

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 **Notes:

 **In Continuous Mode, the focus and the exposure are locked at the moment you press the
- shutter release button.

 You cannot select a Flash mode for Continuous Mode.
- When several pictures are captured in Continuous Mode while the camera is connected to an LCD Monitor, only the first image is displayed on the monitor in order to minimize power consumption from the battery.
- The shooting speed varies according to the image quality selected and type of memory card used (if any).

Memory Drive		Image quality	
selected	F Mode	N Mode	E Mode
Internal Memory	Approx. 1.5 sec./frame	Approx. 1.5 sec./frame	Approx. 0.9 sec./frame
Ricoh Memory Card	Approx 1.5 sec /frame	Annroy 1 A see Arama	Approx 1.2 sec frame
(ATA Type)	Approx. 1:0 securialise	Opprox. 1.2 accurate approx. 1.4 accurate Approx. 1.5 accurate	Approx. 1.2 seculialities

 Values may vary by as much as 0.2 seconds, depending on shooting conditions, such as subject brightness.
 (Values measured by Ricoh.)

Canceling the selected mode

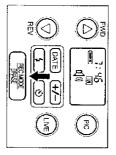
Press the REC MODE/ERASE button again to select another mode.

The state of the s

Note: The built-in microphone is located in the rear of the camera. If necessary, direct the microphone toward the sound source.

Press the REC MODE/ERASE button until [(♠)] appears on the display panel.

The remaining audio recording time appears on the display panel. Press the shutter release button to begin audio recording. The elapsed time is displayed.



Interrupting audio recording

Press the shutter release button again to stop recording.

Canceling the selected mode

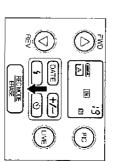
Press the REC MODE/ERASE button again to select another mode.

ocument Mode

This feature is convenient when you want to record a document image. The image is specially processed to enhance the clarity of the document. (Specifically, black portions of the image are darkened and surrounding light portions are lightened to increase contrast.)

Press the REC MODE/ERASE button until The appears on the display panel

[ia] appears on the display panel. Press the shutter release button to begin recording.



Notes: The built-in flash is disabled when Document Mode is selected

Canceling the selected mode

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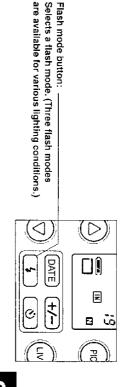
Press the REC MODE/ERASE button again to select another mode

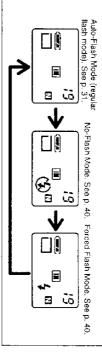
Flash Mode

This section explains how to change the flash mode. You can select the flash mode best suited to the lighting conditions.

Selecting a Flash Mode

Press the Flash mode button to select the desired mode





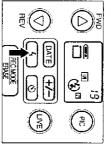
Notes: A flash mode cannot be selected for Continuous Mode, Audio mode or Document Mode.

The section of the section of the

light photography. firing of the flash even in dark conditions. This feature is convenient when you wish to discharge when shooting in dark conditions. No-Flash mode, however, prevents automatic In Still Picture Mode (the default, or standard, shooting mode), the built-in flash will always take a picture where flash photography is prohibited. It is also convenient for available-

Press the Flash mode button until [3] appears on the display panel.

camera will shoot a picture without using the flash. When you press the shutter release button, the



- In dim light, the camera's shutter speed is automatically reduced. To prevent a blurred picture. hold the camera very steady or stabilize it with a tripod. For best results, the subject should not
- If insufficient light is available and underexposure is likely, the red flash-ready light under the viewfinder will flash slowly. See p. 29, "Indicator lights."

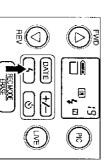
Canceling the selected flash mode

Press the Flash mode button again to select another mode

conditions, Forced Flash mode softens the shadows. may appear on the faces in the image. By discharging the flash under any lighting When taking photographs of people under strong light or with backlighting, dark shadows

Press the Flash mode button until [4] appears on the display panel.

with the flash. Press the shutter release button to shoot a picture



picture, hold the camera very steady or stabilize it with a tripod. For best results, the subject Note: In dim light, the camera's shutter speed is automatically reduced. To prevent a blurred should not move.

6

Canceling the selected mode

Press the Flash mode button again to select another mode

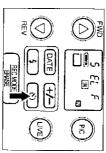
Flash shooting range

subject distance is less than 25 cm (10 in.), the reflected image may look washed-out does not reach the subject, a dark, underexposed image may result. If the lens-torecommended flash shooting range is approximately 1 meter (39 in.). If the flashlight When taking flash photographs in sunlight ("daytime synchro photography"), the The state of the s

Special Functions

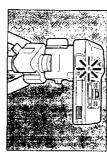
digital camera. Accessing these functions is easy, as described below This camera has a variety of special features that expand the use and enjoyment of your

Press the Self Timer mode button. [SELF using the Self Timer, compose the image with the camera on a steady support or a tripod This function is convenient for taking a group shot that includes the photographer. Before TIMER] appears on the display panel.



Compose your picture and make sure that shutter release button. the camera is firmly placed. Press the

After approximately 10 seconds, the shutter is ends once the shutter is released. beeper will sound. Self Timer mode automatically two seconds before the shutter is released, and a released, the Self Timer light will flash for nearly lights and the Self Timer begins to count down The Self Timer light on the front of the camera



 Self Timer mode cannot be activated when the tlash is recharging. Wait until recharging is completed before pressing the shutter release button.

Slide the Bi-focal Switching Lever to

select the desired view of the subject.

to an optional Ricoh LCD Monitor or a TV monitor.

Note: Before using the Focus Lock, connect the camera

Confirm the proper focus through the monitor.

■Using the Focus Lock

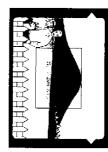
Self Timer mode is disabled in Continuous Mode and Audio mode.

appear out-of-focus in the image. In such cases, use the Focus Lock feature. Viewfinder. If the subject you wish to focus on is not within the Auto-focus frame, it may This carnera automatically focuses on subjects located within the Auto-focus frame in the

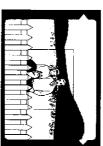
For information on the viewfinder, see p. 28. "Looking through the viewfinder."

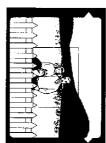
Use this feature to avoid the following problems:

focus but the main subject will be out-of-focus. the Auto-focus frame, the background will be in When the subject you wish to focus is not within



those subjects will be in focus, not your principal subjects that you do not want to focus on, only When the Auto-focus frame is occupied by

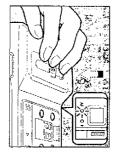




Ocompose the image, keeping the subject you wish to focus on within the Auto-focus frame.



© Press the shutter release button halfway down until the green Auto-focus light illuminates, and hold your finger on that position. Focusing is locked at this stage.



⚠ Recompose the image by moving the camera again, without removing your finger from the shutter release button. Then press the shutter release button all the way down to take the picture.



VE Monitoring Function

This function enables you to view the live image transmitted by the camera to a monitor, and to ensure correct focus manually. Connect the camera to an optional LCD Monitor or TV monitor (NTSC ONLY) before activating this function.

Notes: After activating this function, you cannot change the image quality, recording mode, memory drive designation, date/lime indicator or the flash mode. Complete all necessary steps in advance,

• Confirm the camera is properly connected to the LCD Monitor or a TV monitor (NTSC ONLY).

For information on connecting an LCD Monitor, see p. 49, "Connecting an LCD Monitor." For information on connecting a TV monitor, see p. 48, "Connecting a TV Monitor."

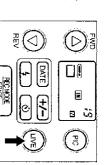
Slide the main switch on the camera to [REC].

② Turn on the power to the connected LCD Monitor or TV monitor (NTSC ONLY).

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Press the LIVE button on the camera.

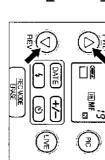
The monitor begins displaying the live images captured by the camera, allowing you to confirm the image before recording.



Press the FWD button or the REV button to focus accurately.

"MF" appears on the display panel.

Press the shutter release button to record the image.



Canceling LIVE mode

Press the LIVE button again to cancel

Notes:

- When the exposure compensation (EV adjustment) function is used while the LIVE function is
 activated, the EV adjustment value is displayed on the monitor. In addition, the image on the
 monitor shows the effect of the adjustment (i.e., the screen brightness changes).
- The EV adjustment value can be set to +-1.5 EV. However screen reflects brightness change only for the compensation range of +1.5 EV to -0.6 EV.
- For information on exposure compensation, see p. 33, "EV adjustments."

Extended monitoring

If no buttons or levers are operated for approximately 5 minutes during LIVE monitoring mode, the Auto Power-Off function cancels the mode to save power. If you anticipate monitoring for a long period of time, turn off the Auto Power-Off function. We also recommend that you keep fresh batteries available, as the LIVE function exhausts the batteries rather quickly. If power can be supplied from a nearby AC power line, however, we suggest that you power the camera with an optional Ricoh AC Adapter.

For information on the Auto Power-Off function, see p. xx, "Adjusting the Auto Power-Off Function."

Remote control

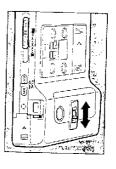
The optional DR-2 Hemote Control Unit may be useful when the camera is positioned at a distance or is fixed in one place.

Macro Shooting (Close-up shooting)

Macro shooting is tight close-up photography.

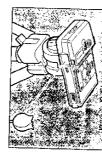
Note: In macro shooting, the image in the viewlinder can be quite different from the image captured through the lens. Connect the camera to an optional LCD Monitor or a TV monitor, and check the composition of the image through the connected monitor.

With the Bi-focal Switching Lever, choose the desired view.



2 Approach the subject and compose the button to take the picture. picture. Then press the shutter release

the camera on a stable surface or tripod before taking a tight close-up. For best results, use the LIVE monitoring tocus) for macro shooting being quite narrow. Position go out of focus due to the depth of field (range of accurate Note: When the camera is repositioned, the subject may



Minimum Shooting Distances

	Standard ([])	Lens View	(Values m
\Wide-Angle ([↑])	1([4])	15	nay vary depending on
	Approx. 3 cm (1.2 in.)	Minimum Shooting Distance	(Values may vary depending on lens position.)
5	2	stance	

Shutter release button

The optional Remote Control Unit is very useful for releasing the shutter when the camera is stabilized on a tripod or on any other support. · 1 学生 李 张

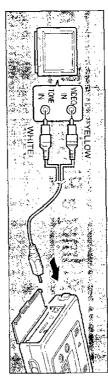
Chapter 4. Image Playback/Erasing

Before Playback a Image

This section explains playback operations and the information displayed on the screen during image playback.

camera to a TV monitor To view recorded images on a TV monitor, use the AV cable provided to connect the

Note: Refer to the manual provided with the TV monitor for more information



- Make sure that the power to the camera and the TV monitor is turned off.
- Open the side cover of the camera, and connect the AV cable to the camera's AV output jack.
- © Connect the opposite end of the AV cable to the Video/Audio input jacks on the TV monitor.

AV cable to the white jack (for monophonic sound). If the Audio input jack of your TV monitor is stereo-ready, connect the audio plug of the

- When the TV monitor is connected to the camera with the AV cable, it can function as the monitor when taking pictures with the camera
- To copy the data from the camera onto videotape, connect a VCR to the camera with the AV
- To make full-color prints from the recorded data, connect a video printer to the camera with the

Extended playback

For extended playback, we suggest you use the optional Ricoh AC-2 AC Adapter, which takes power from a standard electrical outlet. See p. 13, "Operating on AC

Be sure to turn off power to the camera before connecting the AC Adapter

8

Connecting an LCD Monitor

When the camera is connected to an optional LCD Monitor, you can immediately view the recorded image.

Note: Refer to the manual provided with the LCD monitor for more information

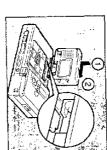
■ Connecting an LCD Monitor

- Turn off the power of the camera and of the LCD Monitor.
- Slide the mounting slot cover on the camera as indicated by the arrow to remove it.



- Remove the protective cover from the bottom of the LCD Monitor. As shown in the illustration,
- Thold the LCD Monitor vertically and set it straight down into the mounting slot in the camera;
- 2 slide the LCD Monitor until it is firmly locked into position.

- To prevent loss, store the camera's mounting slot cover and the protective cover of the LCD Monitor in the soft case provided.
- and LCD Monitor, connect a TV monitor to the camera To view an image simultaneously on both a TV monitor



Disconnecting the LCD Monitor

• Turn off the power of the camera and of the LCD Monitor.

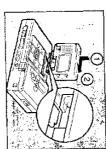


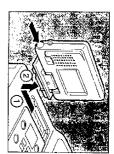
Image Playback/Erasing

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.....

While pushing in the UNLOCK button, ①slide the LCD Monitor in the direction of the arrow; ② remove the LCD Monitor from the camera.

Notes: Replace the camera's mounting slot cover and the protective cover of the LCD Monitor to prevent damage to the electrical contacts.



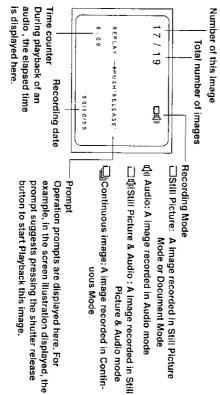
Extended use

For extended playback, we suggest you use the optional Ricoh AC-2 AC Adapter, which takes power from a standard electrical outlet. See p. 13, "Operating on AC Power."

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

nformation displayed during playbacl

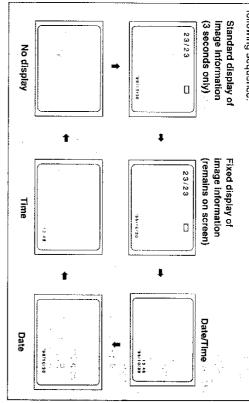
During playback of a image useful information about the recorded images, including image numbers and recording mode, is displayed on the monitor for approximately 3 seconds, as shown below.



- No prompts are displayed during playback of Still Picture s.
- In you have taken the picture while holding the camera in landscape orientation (horizontally), the
 reproduced image will appear on the monitor as intended. However, if you held the camera in
 portrait orientation (vertically) while shooting, the image will appear as if rotated 90 degrees.

Information display The monitor displays

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



lmage Playback

Picture. Basic operations are presented, beginning with the steps required to play back a Still This section explains how to play back images recorded in the various recording modes.

The playback sequence

The following is a brief explanation of the procedures for Playback a image:

Turn the power on

Slide the main switch of the camera to [PLAY (PC)]

Designate a memory drive

card or the built-in memory as the image source. If a memory card is installed in the camera, you can designate either the memory

Select a image

For Still Picture s, see p. 52. Press the FWD button or REV button to select the image to be replayed

For Still Picture & Audio, see p. 53 For Audio s, see p. 54. For Continuous Still Picture, see p. 53

Playback Still Pictures

for any image recorded in Still Picture Mode or Document Mode (a Still Picture). By pressing the FWD button or the REV button of the camera, you can select playback

Slide the main switch to [PLAY (PC)].

The monitor displays the data most recently

during playback." For more information, see p. 50 "Information displayed

> EED POWEREN NAVE

Press the SELECT button for approximamemory drive. tely one second to designate an output

@ Press the FWD button or the REV button to select the image to be played back.

Press the FWD button. To select a later image:

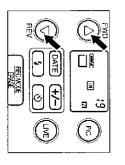
To select an earlier image:

Press the REV button.

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market commence of

The state of the s



Mode, follow the prompts on the screen. Notes: When Playback a image recorded in a mode other than Still Picture Mode or Document

Playback Still Picture & Audio

You can play back data recorded in Still Picture & Audio mode through the following

Press the shutter release button when the monitor displays the desired Still Picture

to the state prior to the playback. After playback ends, the monitor display returns The monitor starts Playback the recorded audio.



- If the FWD button is pressed during playback, the monitor skips to the next image.
- If the REV button is pressed during playback, the sound playback is cancelled and the monitor displays the image displayed before playback began. If the REV button is pressed again, the monitor skips back to the previous image.

Playback Continuous Still Pictures

The following section explains how to play back images recorded in Continuous Mode

Press the shutter release button when the still picture. monitor displays a desired continuous

image is displayed, the monitor displays the image displayed before continuous playback began. frame in succession. After the last picture in the The recorded images are displayed frame by



- If the FWD button is pressed during playback, the monitor skips to the next image.
- If the REV button is pressed during playback, the monitor displays the image displayed before playback began. If the REV button is pressed again, the monitor skips back to the previous

Reversing the frame

Advancing the frame

Press the shutter release button during playback to interrupt the playback. Then press the FWD button, and the next frame will be displayed

Press the shutter release button during playback to interrupt the playback. Then press the REV button, and the previous frame will be displayed

Restarting playback

Press the shutter release button again

Press the shutter release button when the The following section explains how to play back images recorded in Audio mode.

number of the desired audio is displayed on the monitor.



image number displayed before playback began The monitor begins playback the recorded audio After playback is over, the monitor displays the 0:01

- If the FWD button is pressed during playback, the monitor displays the next image number.
- If the REV button is pressed during playback, the monitor displays the image number displayed before playback began. When the REV button is pressed again, the monitor skips back to the

Advancing the counter readout

Press the shutter release button during playback to interrupt the playback. Then press the FWD button. The counter readout will advance as long as the FWD button is held advancing the count down. (No sound is played during this step.) Stop pressing the FWD button to stop

Reversing the counter readout

down. (No sound is played during this step.) Stop pressing the REV button to stop the REV button. The counter readout will reverse as long as the REV button is held Press the shutter release button during playback to interrupt the playback. Then press reversing the count.

Restarting playback

54

Press the shutter release button again. The image indicated on the counter will begin

Erasing Images

which erases all images in a memory drive at one time. images: single-image erasing, for erasing selected images individually; and initialization This section explains how to erase recorded images. There are two methods of erasing

The image-erasing sequence

The following is a brief explanation of the procedures for erasing images

Turn the power on.

Slide the main switch of the camera to [PLAY (PC)]

Designate a memory drive.

card or the built-in memory as the image source If a memory card is installed in the camera, you can designate either the memory

Select a image.

Press the FWD button or REV button to select a single image to be erased

Erase the image.

The image is erased.

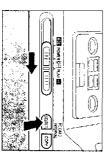
For information on initialization, see p. 57 For information on single-image erasing, see p. 55.

The following explains how to erase a selected image

Note: Erased images cannot be recovered. Carefully confirm the content of a image before erasing

Slide the main switch to [PLAY (PC)].

Press the SELECT button for approxima-tely one second to select the desired memory drive.

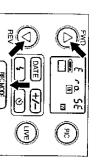


Check the symbol indicated on the display panel again to confirm that the correct memory drive is selected. Important: -

CARDJ Memory Card Built-in memory

Press the REC MODE/ERASE button until EraSE appears on the display panel.

Press the FWD button or the REV button to select the image to be erased.



To erase all images in a memory drive, select the drive and initialize it.

tialization (Erasing all

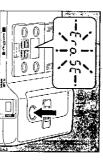
Note: Erased images cannot be recovered. Carefully confirm the content of a image before erasing

Notes:

- To exit erase mode, press the REC MODE/ERASE button again. Confirm that EraSE no longer appears on the display panel.
- Continuous Still Pictures and Audio cannot be erased when paused during playback

Press the shutter release button.

and to erase another image. The selected image will be erased. Repeat steps



[IN] Built-in memory Card

Built-in memory

to confirm that the correct memory drive is selected.

Exiting from erase mode

type of image recorded.

 When a image is erased, the image numbers of succeeding images decrease by one. The time required to erase a image varies depending on the type of memory card used and the

Press the REC MODE/ERASE button again.

Slide the main switch to [PLAY (PC)].

Open the side cover of the camera and press the Format button with the tip of a ball-point pen.

Stop pressing when "Fo" appears on the display

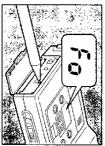
that has a sharpened point or is easily broken. **Note**: Do not press the Format button with any object

Press the shutter release button for at to 0. Initialization is now completed. and the counter display on the display panel resets When initialization is completed, a buzzer sounds, least two seconds to begin initialization.

Press the SELECT button for approxima-Check the symbol indicated on the display panel again tely one second to select the desired

memory drive.

Important:



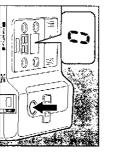




Image Playback/Erasing

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Chapter 5. Additional Information

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Connecting to a Personal Computer

Exclusive Attachment Cables and Software for personal computers allow you to directly transmit data from the camera to a personal computer.

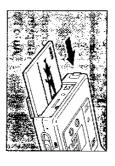
Copying Images

This section explains how to copy all images recorded in the internal memory to a Memory Card.

Notes: Images on memory cards cannot be copied to the internal memory

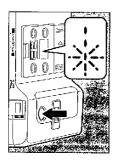
Insert a memory card into the camera.

For details, see p. 16, "Inserting a Memory Card."



C





Slide the main switch to [PLAY (PC)].

Press the COPY button. COPY appears on the display panel

Press the COPY button again To interrupt copying

Press the shutter release button.

progress of the copying operation. bars (-) appear on the display panel to show the The camera starts copying. A series of illuminated

- One bar flashes until all images are copied.
 The indicator on the monitor counts down the copying of each frame.
- As copying progresses, one bar stops flashing but display panel. remains illuminated. Another bar then appears on the
- Once all images have been copied, six bars will have image playback mode. appeared on the panel. The camera then returns to

8

Auto Power-Off and Buzzer Settings

This section explains how to change the Auto Power-Off and buzzer settings

Setting/canceling Auto Power-Off

set to recording mode or playback mode, temorarily turns off the main power to save power If no buttons or levers are operated for approximately 5 minutes while the main switch is

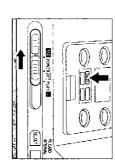
■Canceling Auto Power-Off in Recording Mode

Turn the power off. Hold down the DATE button while sliding the main switch to [REC].

Auto Power-Off function is canceled. A slightly longer buzzer sound indicates that the

To reactivate Auto Power-Off

Repeat the above operation. A shorter buzzer is activated sound tells you that the Auto Power-Off function



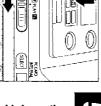
■Canceling Auto Power-Off in Playback Mode

Turn the power off. Hold down the DATE [PLAY (PC)]. button while sliding the main switch to

A slightly longer buzzer sound tells you that the Auto Power-Off function is canceled

function is activated Repeat the above operation. A shorter buzzer sound tells you that the Auto Power-Of To reactivate Auto Power-Off

Notes: If the display panel is turned off by the Auto Power-Off system, turn on the power again



Additional Information

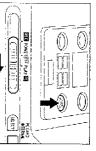
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Turning the buzzer on or off

The carnera makes a buzzer sound to confirm each recording operation. To cancel the buzzer, follow the instructions below.

Slide the main switch to [PLAY (PC)] and press down the LIVE button for more than 5 seconds. A short buzzer sound tells you that the buzzer is

Note: The warning buzzer is not canceled. turned off.



Reactivating the buzzer

Repeat the above operation. A slightly longer buzzer sound confirms that the buzzer is activated.

Using your Digital Camera in other countries

- Ricoh AC-2 AC Adapter (optional)

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

Viewing the images via TV Monitor

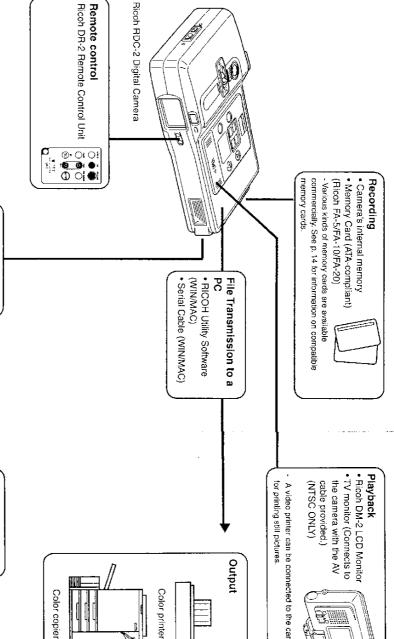
- Make sure to check if the TV monitor is NTSC.
- The NTSC format is used in the following Countries:

American Samoa	Haiti
Barbados	Honduras
Bermuda	Mexico
Bolivia	Micronesia
Canada	Myanmer
Chile	Nicaragua
Columbia	Panama
Costa Rica	Peru
Cuba	Philippines
Democratic People's Republic of Korea	Puerto Rico
Dominica	Suriname
El Salvador	Taiwan
Equador	Trinidad and Tobago
Guam	USA
Guatemala	Venezuela

 NiCad batteries NiMH batteries AA alkaline batteries

Batteries

System Configuration Chart





A video printer can be connected to the camera

supplied AV Cable, you can connect You can connect the camera to an LCD Monitor to immediately play back Still recorded image immediately. (NTSC dio, and Continuous shots. With the the camera to a TV monitor to view a Pictures, Still-Pictures with Audio, Au-

Image transmission to a PC

slot is a popular feature of many of a personal computer. The PC card interface between the camera and PC on a memory card simply by inserting You can also transmit data recorded with connector cable included as the You can transmit your images to a PC notebook PCs. the card directly into the PC card slot

Output

Alternatively, rechargeable NiCad batteries or NiMH batteries can be Supplying power Install common AA alkaline batteries. used. For extended use, the Ricoh AC Adapter is recommended.

Recording

For high-volume recording, however, storage options. Memory Cards offer convenient Ricoh's high-performance PCMCIA that the camera is always ready to record. No memory card is required. The camera's internal memory ensures

Viewing

Ricoh SC-2 Hard Case Accessories

See "Optional

Accessories" on p. 66

 Ricoh AC-2 AC Adapter Power supply

print it with a color printer or color Once data is sent to your PC, you can

Camera). mentioned above Hicon products for information on all

except the Digital

65

Accessories for RDC-2

Item	Model	Remarks
AC Adapter	AC-2	For operating on household AC current. See p. 13, "Operating on AC Power."
LCD Monitor	DM-2	A removable LCD Monitor. See p. 49, "Connecting an LCD Monitor"
Hard case	SC-2	Storage and carrying case for the camera and LCD Monitor
Remote Control Unit	DR-2	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.
5-MB Memory Card	FA-5	ATA-compliant memory card with flash memory. Capacity: 5 MB.
10-MB Memory Card	FA-10	ATA-compliant memory card with flash memory. Capacity: 10 MB.
20-MB Memory Card	FA-20	ATA-compliant memory card with flash memory. Capacity: 20 MB.

Note: To use an ATA-compliant flash memory card on a PC, you need a driver for ATA cards. Generally, PCs with PC card slots have such a driver Install this driver for ATA memory cards in your PC before you use a memory card in your PC the first time.

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

Handling Precautions

- This camera is not waterproof. Take great care of avoid water, rain or spilled drinks.
- Never drop the camera or subject it to strong shock.
- To avoid overheating the system, do not continuously fire the built-in Flash more than necessary.
- Protect the camera from sand or dust, especially at the beach or in dusty environments.
- Do not expose the camera to high temperatures or high humidity for a long period such as in a closed vehicle, a bathroom, or on the beach.
- Turn off the camera before connecting it to the optical AC Adapter.
- Sudden changes of temperature may cause condensation to form inside and outside the camera body and lens, resulting in malfunctions. In such conditions, put the camera into a bag or plastic bag temporarily to moderate any drastic change of temperature. Keep it in the bag until the temperature difference is minimized.

Condensation occurs when:

- the camera is suddenly brought into a warm place from a cold place;
- · the camera is used in high humidity.

Caring for Your Digital Camera

Camera Care

- Keep the lens of the carnera clean, as stains or dirt on the lens may degrade the precision of the auto-focus mechanism.
- Do not attempt to remove dust or smears from the lens or the viewfinder with your fingers. Use a blower to blow the dust away, or wipe the surface gently with a soft
- After using the camera at the beach or exposing it to a chemical environment, take special care to wipe off any dirt.
- is equipped with a hazardous high-voltage circuit, never attempt to repair it yourself. If the camera does not opperate properly, contact a Ricch service center. The camera
- Keep the camera away from volatile liquids such as thinner, benzene and insecticide, as these chemicals may peel off the paint or damage the surface.
- Keep input/output jacks clean to avoid malfunctions. Wipe them carefully with a dry

Before cleaning the camera, slide the main switch to [POWER (OFF)].

Safekeeping

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

Troubleshooting

where you purchased the product. solution to the problem. If you still cannot correct the problem, please contact the store Before sending the unit in for repairs, first refer to the following checklist for a possible

■Power Source Problems

Problem	Probable Cause	Remedy	Reference page
No power B	Balteries are not positioned properly or are depleted.	Reposition the batteries correctly or replace with fresh batteries.	P.11
Ъ	AC Adapter is not connected property.	Reconnect the AC Adapter.	P.13
Sudden loss of power A	Auto Power-Off system shut down the camera after several minutes of inactivity.	Touch the shutter release button lightly or turn on the power again.	I
TO .	Balteries are depleted.	Replace with fresh batteries.	P.11
Batteries go dead B quickly.	Batteries were subjected to excessively low or high temperatures.	1	1
	LCD Monitor was used for a long time.	l	
o≠m	Built-in Flash was used too many times because of dark conditions or other reasons.	I	I

■Shooting and Playback Problems

,	•		
Problem	Probable Cause	Remedy	Reference page
Fails to record picture when shutter release	Batteries are not inserted properly (incorrect polarity) or are dead.	Reposition the batteries correctly or replace with fresh batteries.	E11
puttorn is pressed.	Power is off, or the main switch is set to (PLAY (PC)).	Slide the main switch to [REC].	P.23
	The shutter release button is not fully pressed down. (Button was pressed only halfway down).	Press the shutter release button all the way down.	P.30, P.31
	When the internal memory is designated as the memory drive	ed as the memory drive:	
	Internal memory is full.	Delete (or copy and delete) some images to secure enough space.	P.55
	When the memory card is designated as the memory drive	as the memory drive:	
	Memory Card is not inserted properly.	Insert the memory card again.	P.16
	Memory Card is not initialized.	Initialize the card.	P.16
	Memory Card is write-protected.	Write-enable the memory card.	-
	Memory Card is full.	Delete some images or replace with a new memory card.	P.55, P.16
	Memory Card is expired.	Replace with a new memory card.	P.16
	Self Timer mode is selected.	Press the Self Timer mode button to cancelSelf Timer mode.	P.42
	Audio mode is selected.	Press the REC MODE/ERASE button to cancel Audio mode.	P.38
	Built-in Flash is recharging.	Wait until the Flash-ready light stops	P.31

Problem	Probable Cause	Remedy	Reference mana
Auto-focus does not	Lens is dirty.	Clean the lens.	P.1
	Subject is not in the center of the Auto-focus frame.	Use Focus Lock or LIVE monitoring mode.	P.43
	Difficulty locusing on subject.	Take the picture using Focus Lock.	P43 P44
Actual image differs greatly from image viewed through viewfinder.	Distance to subject is less than 25 cm (10 in.).	Use LIVE monitoring function or macro shooting technique.	P.44, P.46
Flash does not work or recharge.	Camera not set to Still Picture Mode.	Press REC MODE/ERASE button to select Still Picture Mode.	P.26
	Flash-off mode is selected.	Press Flash mode bulton to cancel selting.	P.40
	Batteries are dead.	Replace with fresh batteries.	P.11
Flash discharged properly but image is dark.	Distance to subject exceeds 5 meters (16 ft.).	Reduce distance to subject.	ı
Picture is too bright.	Flash discharged when distance to subject was less than 25 cm (10 in.).	Select Flash-off mode.	P.40
	Image is overexposed.	Compensate exposure with EV button.	P.33
image is underexpos- ed.	Picture was taken in Flash-off mode under dark conditions.	Press Flash mode button to cancel setting.	P.40
	lmage is underexposed.	Compensate exposure with EV button.	P.33
Picture does not show natural colors.	Image conditions prevent automatic white balance system from functioning property.	Include a white or light-colored object in the subject, or use fash for fill.	P.33
Fails to record audio data.	Power is off or the main switch is set to [PLAY (PC)].	Slide the main switch to [REC].	P.23
	Battery polarity is reversed or batteries are dead.	Reposition the batteries correctly or replace with fresh batteries.	P.11
	Camera is not in Audio mode.	Press the REC MODE/ERASE button to select Audio mode.	P.38
	Shutter release button is not fully pressed down (button is pressed only halfway down).	Press the shutter release button all the way down.	P.38
	When the internal memory is selected	as the memory drive:	
	Internal memory is full.	Delete some images to free up sufficient memory space.	P.55
	When the memory card is selected as	the memory drive:	
	Memory Card is not properly inserted.	Reinsert the memory card.	P.16
	Memory Card is not initialized.	Initialize the card.	P.16
	Memory Card is write-protected.	Write-enable the memory card,	
	Memory Card is full.	Delete some images or replace with a new memory card.	P.55, P.16
	Memory Card is expired.	Replace with a new memory card.	P.16

Problem	Probable Cause	Remedy	Reference page
Fails to play back data or display an image on	The main switch is not set to [PLAY (PC)].	Slide the main switch to [PLAY (PC)].	P.52
are nomicon.	Proper memory drive is not selected.	Press the SELECT button to select the correct drive.	P.52
	When the memory card is selected as	the memory drive:	
	Memory Card is not properly positioned or contains no images.	Reposition the memory card or replace with a memory card containing recorded images.	P.16
	Memory Card was not initialized in this camera.	Insert a correctly formatted memory card.	P.16
	Memory Card contains improperly recorded data.	Insert a memory card with properly recorded data.	P.16
	Only Audio play back.		1
	AV cable is not correctly connected to the AV output jack of the camera and the input jack of the TV monitor.	Connect AV cable correctly.	P,48
	LCD Monitor is not correctly mounted.	Mount the LCD Monitor correctly on the camera.	P.49
	Electric motors or other devices near the carnera produce electromagnetic interference.	Move camera away from interfering devices.	ı
Image does not play back clearly.	Memory Card is faulty.	Insert another card containing recorded images. If this card functions correctly, the camera is not mallunctioning. However, original memory card is probably delective.	I
	Malfunction of camera's Internal memory	Back up any important images in the internal memory with the image copying function. Then initialize the internal memory.	P.62, P.16
The image on the	Batteries are dead.	Replace with fresh batteries.	P.11
peared.	Aulo Power-Off system has activated.	Slide main switch to [POWER (OFF)] and restart playback.	P.52
Remote Control Unit (optional) is malfunctioning.	Path between reception window of the camera and the transmission window of the Remote Control Unit is obstructed.	Clear the path between the camera and the Remote Control Unit.	1
	The reception window on camera or transmission window on the Remote Control Unit is dirty.	Clean both windows.	TO TO
	Lithium battery in the Remote Control	Replace with a fresh lithium battery (CR2032)	

Other Problems

P.62	Confirm buzzer settings.	Buzzer was shut off.	Buzzer does not sound.
P.61	Confirm Auto Power-Off system settings.	Auto Power-Off system was canceled.	Auto Power-Off system does not work.
P.57	Initialize the memory drive.	Memory underwent more than 4,000 record/erase cycles without being initialized.	Counter indicated 2 pictures even though only 1 was taken.
1	Select the mode again.	Batteries were removed.	
	Select the mode again.	Power was shut off manually or the Auto Power-Off system shut down the camera.	Camera changes to a mode other than the one selected.
P.53, P.54	Resume and complete playback.	Continuous images or audio images are paused during playback.	
1	Write-enable the memory card.	Memory Card is write-protected.	card.
P.55, P.57	Slide main switch to [PLAY (PC)].	Main switch is not set to [PLAY (PC)].	Falls to erase a image or initialize a memory
P.11, P.18	Replace with fresh batteries and reset the date. Do not remove the batteries immediately after resptting the date. Batteries with ermain in camera for at least 10 hours before being removed to prevent date memory from being erased.	Batteries are dead, or batteries were removed from camera for more than two weeks.	The date display is turned off.
P.18	Reset the time and date correctly.	The correct date and time have not been set.	Date is incorrect or the date display is flashing.
P.19	Adjust the diapter with the Diopter control.	Diopter is not properly adjusted.	Viewfinder is out of focus.
l	Side the main switch of the camera to [POWER (GFF)], and then side it back to [REC] or [PLAY [PC]], if the back to [REC] or [PLAY [PC]], if the tollowing: 1. Remove and reinstall all batteries in the camera. 2. Side the main switch to [REC] or [PLAY [PC]] again.	Camera does not function properly.	lion.
P.11	Replace with fresh batteries.	Batteries are dead.	Camera buttons and switches do not func-
P.16	Insert the memory card correctly.	Memory Card is upside down or backward.	
P.14, P.16	Insert a recommended memory card.	Memory Card does not meet required specifications.	Memory Card cannot be inserted in camera.
Reference page	Remedy	Probable Cause	Problem

Servicing

- The Ricoh RDC-2 camera is backed by a one-year limited warranty. During the warranty note that you will be charged for the cost of shipping the camera from the Ricoh purchased the camera or contact the nearest Ricoh Service Representatives. Please period, which starts from the date of purchase, any defective parts will be repaired service center to you. free of charge. In the event of a camera malfunction, contact the dealer where you
- This warranty does not cover any damage resulting from:
- failure to follow the instructions in this instruction manual;
- (2) repair, modification or overhaul not conducted by authorized service station specified in this instruction manual;
- fires or natural calamities;
- (4) improper storage, such as exposing the camera to high temperatures, humidity, or so that it becomes moldy; or otherwise insufficiently caring for the camera. insect repellents; storing it with leaking batteries; storing the camera in a dirty condition
- (5) submergence; exposure to floods or spilled alcoholic or non-alcoholic beverages; allowing sand or mud to enter the camera; exposure to physical shocks; or dropping of the camera
- After a full year has passed from the purchase date, you will become responsible for all repair fees, including those incurred at authorized service stations.
- You will be responsible for all repair fees, even within the warranty period, if the warranty card is not attached or if the distributor's name or the purchase date have been changed or are not indicated on the card.
- Expenses for overhauls and thorough inspections as a result of your special request will be charged to you, whether or not they occur during the warranty period.
- Whether during the warranty period or not, any consequential damage arising from the failure of this camera, such as expenses for taking pictures or loss of expected 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 batteries
- The above provisions are in regard to repairs offered free of charge, and do not limit warranty card provided with this camera. your legal rights. The intention of the above provisions are also described in the

profit, will not be reimbursed

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- center even after the 7-year period longer period, do not hesitate to contact your distributor or the nearest Ricoh service after the camera is discontinued. However, as some of those parts are kept for a the functions and quality of this camera - will be available for a period of seven years Parts essential to the servicing of this camera - that is, components required to maintain
- Please note that, if seriously damaged from flooding, submergence, infiltration of sand or mud, violent shocks or dropping, the camera may not be repairable, and restoration to its original condition may be deemed impossible.

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

- When sending the camera to a service representative, please include a note describing the defective
- Remove all accessories not related to the problem before sending the camera to a service 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 learn and ensure proper functioning. We recommended that you keep this manual and tresh batteries on hand.

Specifications

■ General

Video signal method

Power requirement

Batteries: 6 V

AC: 5 V

veight : approx. 285 g (10.1 oz.) without batteries Operating temperature range: 0°C to 40°C Dimensions (W \times H \times D) : 143 $(5.6) \times 27$ (1.1) [36 (1.4) incl. grip] ×76 (3) mm (in.)

■ Main system Storage temperature range : -20°C to 60°C

: 1/4", 410,000 pixels (effective 380,000 pixels) with complementary color checkers

; 1.5 x, Bi-focal, F:2

Lens

 Focal length Wide angle

Standard: f : 5.6 mm (equiv. to 55 mm on a 35-mm camera) : t:3.7 mm (equiv. to 35 mm on a 35-mm camera)

Shooting range Wide angle

: 0.03 m - ∞ $: 0.01 \text{ m} - \infty$

Standard

: 8 elements in 8 groups ; 6 elements in 6 groups

: Relay-type real image bi-focal finder

Viewfinder

Standard

Wide angle Composition

Magnification

Wide angle

Field-of-view coverage Standard : 80% minimum : 0.42

White balance Diopter adjustment : -3.5 to +0.5 dpt

: 4300 + 50K - 50K

Color temperature of standard setting

- Automatic adjustment range: 2800K-6500K

Exposure adjustment

AE range: EV 9-EV 17

Light measuring system : Centerweighted

 EV memory system : With automatic backlight control program (AE is locked

Manual exposure adjustment range +-1.5 EV (in 0.3 when shutter release button is held halfway down.)

EV increments)

Program AE

Exposare mode

Exposare measurement : TTL CCD method

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Additional Information

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 With still picture : 10 seconds

Audio only

With 20-MB memory card: 86 min. 33 sec. max. (in 1-second steps) : 7 min. 46 sec. max. (in 1-second steps)

With internal memory

: Focus is locked when shutter release button is held ■ Input/Output

 Focusing Manual focusing

Focusing

 AE range AF method

: 0.01 m (0.03 ft.) − ∞ : TTL CCDAF method

Pre-focus system

 Shutter speeds AE with flash

: included

Still Picture (mechanical): 1/8-1/1000

: Green LED in viewfinder

Adjust with the FWD/REV buttons, while shutter release button is held halfway down. (Also operational with the

Automatic Automatic Remote Control Unit.)

Built-in flash

Red light flashes in viewfinder

: Automatically when fully recharged

 Charging stops Charging starts

No red light in viewfinder

Fully recharged Recharging Recharging monitor

 Interval between flashes : 5 seconds max. Effective distance

 Operating modes : Max. 5.0 m (16.4 ft.) : Max. 5.0 m (16.4 ft.) Automatic/on/off

Standard Wide angle

JEIDA DSC 68-pin standard

: NTSC-compatible

VIDEO1-compatible

: JPEG-compatible

Compression method

Image format Color method

I Image recording

Compression ratio Still picture Economy mode

: 1 bit/pel (48 kB/frame) : 2 bit/pel (96 kB/frame)

Normal mode

Fine mode

: 4 bit/pel (192 kB/frame)

Still Picture image quality Document Mode : 768 x 576

Approx. 1 image/second Gamma characteristics optimized

Image format Audio recording Continuous speed

JEIDA DSC 68-pin SOUND1-compatible

Compression ratio Compression method Sampling frequency

8 KHz

: ITU-T G.721 ADPCM method

■Camera body

Other specific terminals

: Power supply input terminal : -7.5 dBs (10 K Ω)

Video terminal (with audio) RS-232C/AUX terminal

: 1.0 Vp-p (1 K Ω)

Specially designed 9-pin socket (gold-plated)

 Audio output Video output Connectors for monitor

Socket

Tapped Hole for Tripod : 1/4-20 UNC

5.5 mm (0.2 in.) max. bolt length

: AA alkaline batteries

Batteries

■Power supply

AA NiCad batteries AA NIMH batteries

6 V (1.5 V × 4 cells)

Voltage

Batteries

AC Adapter: 5 V

Auto Power-Off system : Activates when camera is not used for approximately 5 minutes.

■Memory Cards for recording/playback With flash memory

Type I and Type II, ATA-compliant: PCMCIA 2.1/JEIDA 4.2

Capacity: 40 MB

With common memory write cycle of 300 ns or less

AIMS-compliant: Type I, PCMCIA 2.1/JEIDA 4.2 Capacity: 24 MB

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Memory Storage Capacity

The following tables show the data recording capacity for each image image quality and recording mode.

■Internal memory

Document Mode	Audio mode	Continuous	Still Picture & Audio mode	Still Picture Mode		Recording Mode
9 frames *		9 frames *	7 frames **	9 frames *	F Mode	
19 frames	7 min, 46 sec	19 frames	12 frames *	19 frames	N Mode	Image quality
38 frames		38 frames	19 frames	38 frames	E Mode	

Plus 2 still pictures in E mode.

■ Memory Card (ATA-compliant)

Memory Card	Becording Mode		Image quality	Ŋ
Michigal & Card	Liceotalid Mode	F Mode	N Mode	E Mode
5 MB (Model FA-5)	Still Picture Mode	25 frames	51 frames	103 frames
	Still Picture & Audio mode	21 frames	36 frames	56 frames
	Continuous'	25 frames	51 frames	103 frames
	Audio mode	21	21 minutes 14 seconds	econds
	Document Mode	25 frames	51 frames	103 frames
10 MB (Model: FA-10)	Still Picture Mode	52 frames	105 frames	210 frames
	Still Picture & Audio mode	43 frames	74 frames	114 frames
	Continuous	52 frames	105 frames	210 frames
	Audio mode	43	43 min. 00 sec.	
	Document Mode	52 frames	105 frames	210 frames
20 MB (Model: FA-20)	Still Picture Mode	105 frames	211 frames	422 frames
	Still Picture & Audio mode	87 frames	149 frames	230 frames
	Continuous	105 frames	211 frames	422 frames
	Audio mode	86	86 min. 33 sec.	
	Document Mode	105 frames	211 frames	422 frames

^{**} Plus 3 still pictures in E mode.

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FCC Notice:

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

(1) This device may not cause harmfull interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Properly shielded and grounded cables and connectors must be used for connection to host computer in order to meet FCC emission limits.

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

Ricoh Service Representatives -

Ricoh Company, Ltd. 3-32-3 Higashi-Shinagawa Shinagawa-ku, Tokyo 140 JAPAN http://www.ricoh.co.jp/

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

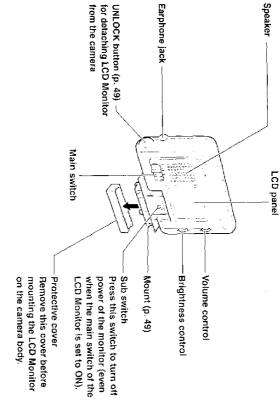
Ricoh Europe B.V. Groenelaan 3 P.O. Box 114 1180 AC Amstelveen Holland

Ricoh Photo Products(Asia), Ltd. Unit D, E&F, 24/F, China Overseas Building, 139 Hennessy Road, Wan Chai Hong Kong

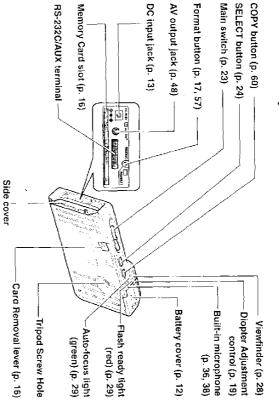
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Camera Description (2)

Optional LCD Monitor



■ Camera Body



■ Optional AC Adapter

AC-2

