Chapter 5. Advanced Features and Other Topics

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computer The optional DU-4 software is required to exchange files between the RDC-4200 and a

Important Note:

the software. For instructions on how to use the DU-4 software, please refer the Readme file and help menu of

Preparations

Floppy Disk Adapter*	PC Card Adapter*	PC Interface cable*	Software	
FS-A10	FS-B53	PC Connection Cable	DU-4	Platform : A
ı	B53	PC Connection Cable + eras to PCs Mac Adapter	-4	(Platform
A floppy disk adapter used to insert a SmartMedia memory card directly into a computer's floppy disk drive	A card adapter used to insert a SmartMedia memory card directly into a PC card slot	Specialized interface cables for connecting digital cameras to PCs	Software programs for RDC-4200	Comments

Only one of the marked items is required to exchange data with the computer

I System Requirements

Windows® 95

System Software

Disk Requirements When Installed:

Display Resolution:

6 MB+ (800 x 600 pixels+ recommended) 640 x 480 pixels+ 486 DX+ (Pentium+ recommended) Microsoft® Windows® 95 16 MB+ (32 MB+ recommended)

CD-ROM Drive:

Required for software installation

256+ (32,000+ recommended)

Colors:

- Software may not operate correctly with Windows® NT 4.0.
- Software not compatible with Windows® 3.1 or Windows® NT 3.51.
- Software is confirmed to run on Windows® 98 under our testing environment.
- Software may not run properly on Windows® 98 under certain user configrations

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HAM: System Software: Macintosh Colors:

Display Resolution: Disk Requirements When Installed: 6 MB+ 16 MB+ (32 MB+ recommended)

QuickTime™: CD-ROM Drive: Version 2.5+

68030 or Power PC Apple Macintosh® System Software 7.6+or 8

Required for software installation 256+ (32,000+ recommended) (800 x 600 pixels+ recommended) 640 x 480 pixels+

Processing Files on a Computer

files immediately on delete] option. Re-delete the files in question occurs, open the [Properties] dialog for the Recycle Bin and click the [Options] tab. Sememory card and place a check in the [Do not move files to the Recycle Bin. Remove lect the [Configure drives independently] option, select the drive containing the SmartMedia puter or files that are placed in the Recycle Bin do not actually erase from the card. If this Windows® 95 users may find that files erased off a SmartMedia memory card by a com-

Important Note: -

If you select the [Use one setting for all drives] option in the [Options] tab, files on all the drives (including the hard disk and floppy disks) will be immediately deleted with the delete command and can not be recovered. Be particularly careful with the use of this setting

Note:

A selected file may also be deleted by simultaneously pressing the [shift] + [delete] keys or by holding the [shift] key while dragging and dropping the file into the Recycle Bin.

Changing Camera Settings

mode, auto power off mode, beep mode and save settings mode. The following can be adjusted on the RDC-4200 to suit user requirements: power saving

Power Saving Mode Settings

saving mode is set to continuous, the LCD monitor will display continuously (except ing activation of the power switch or operation of another function. When the power when shut off by the auto power off mode). period of time to preserve battery power (although slight, it still consumes power). When performed during the set time period (0, 10 or 30 seconds or 1, 2, 3 or 4 minutes) followpower saving mode is active, the LCD monitor will go to sleep if a carnera operation is not The LCD monitor can be programmed to automatically go into sleep mode after a certain

Turn the mode dial to [REC] and press the menu button.

The record menu will display

To cancel the operation, press the menu button a second



BEEP ON OFF MENU (AECOAD) NITIALIZE SETTING ENTER SETTING BACK: MENU

Slide the zoom button to select the [Display] option and press the enter button. The settings menu will display.

- the menu button a second time. To cancel the operation and return to the record menu, press
- Slide the zoom button to select a time option and press the menu button.

menu will display. Press the menu button a second time to clear the record menu. The power saving mode is now set and the record

LCD monitor to sleep. the power saving mode has automatically put the The AF indication LED will flash intermittently when

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How to Reactivate the LCD Monitor

Pushing any button or switch will reactivate the LCD monitor from sleep mode.

Important Note:

an environment with lower temperatures. irregularities in the LCD monitor display. The LCD monitor will operate normally when returned to In environments over 40° Celsius (104° Fahrenheit), use of the power saving mode may cause

Note:

Although the results will vary between operating environments and settings, use of the power saving mode can extend the recordable images approximately 1.2 times the standard values. (Results based on Ricoh's Testing Standards).

How to Turn Power Saving Off

Repeat the steps above, changing the option in step (1) to [Continuous]

Auto Power Off Settings

either the record or play menu approximately 5 minutes. The auto power off mode can be disabled by setting it to off in modes to conserve the battery if left untouched (no buttons or switches manipulated) for The camera will automatically power down (auto power off) in the recording and play

Turn the mode dial to [REC] or [Play] and press the menu button.

The examples shown here illustrate the recording The record or play menu, respectively, will display.

- To cancel the operation, press the menu button a second
- Slide the zoom button to select [Auto Power Off].

Note:

- To cancel the operation, press the menu button a second time.
- Press the enter button to change the setting to [Off] and press the menu button.

The auto power off mode is now disabled







- To disable the auto power off mode for the camera in play mode, change the corresponding play menu setting to [Off].
- Slide the power switch to reactivate the camera if it shuts off in auto power off mode
- The auto power off function is automatically disabled while the camera is powered by an AC

How to Enable the Auto Power Off Mode

off will become effective again. Follow the procedures above, changing the setting to [On] in step (1). Auto power

Beep Settings

disabled with the following procedures. The camera emits a beep for confirmation when it starts to record. The beep can be

Turn the mode dial to [REC] and press the

The record menu will display

- To cancel the operation, press the menu button a second
- TIALIZE SETTING POWER OFF (BECORD) BACK: MENU

Slide the zoom button to select the [Beep]

- To cancel the operation, press the menu button a second
- are not disabled or affected by any change to this setting The long beeping sounds produced as a notice of an error, NEEP SETTING INITIALIZE SETTING (BECORD)

4 Press the PIC button and select a PIC

The NC option will display in the settings menu

Press the enter button to change the set The beep is now disabled ting to [Off] and press the menu button.

How to Restore the Beep

Follow the procedures above, changing the option in step 3 to [On]. The beep will now sound.

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Adding PIC Mode Options (NC Mode

data, add the NC mode to the picture mode options, this will allow you to record images without compression. image data when recording. If you wish to have the option of recording non-compressed There are six standard PIC modes (\Box SF, \Box SN, \Box SE, \Box F, \Box N, \Box E) that compress the

Important Note: -

- This mode records extremely clear pictures because they are uncompressed. However, each image requires approximately 2.4 MB at the time of recording. Accordingly, recording and data transters require several tens of seconds to complete.
- Ricoh's proprietary DU-4 utility software is required to use files recorded in this mode on a com-

Turn the mode dial to [REC] and press the

The record menu will display.

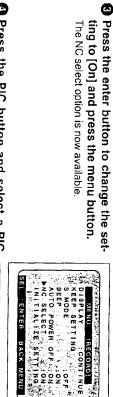
- To cancel the operation, press the menu button a second
- 2 Slide the zoom button to select the [NC Select] option.

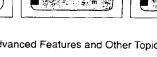






ting to [On] and press the menu button. The NC select option is now available.





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> SE S S) Ti

> > 0 0

pictures available at that setting

and the display updates the number of recordable approximately 2 seconds after the button is pressed ton to select this option. The selection takes effect compression recording mode. Press the PIC but-Selecting this option switches the camera to non-

How to Use the Remote Control Unit

a remote location. The DR-3 remote control unit (optional) makes it possible to record and replay files from

Important Note: -

camera. Operate the remote control unit with it pointed toward the sensor. The remote control reception is located just below the enter button on the LCD monitor side of the

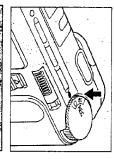
Note:

- Please read the manual accompanying the remote control unit for instructions on how to change the batteries and maintain it.
- the camera itself. Follow the instructions below to operate the remote control unit. Some procedures performed with the remote control unit differ from those performed directly on

Shooting

position. nient for operating the camera from a remote position or placing the camera in a fixed The remote control can be used to trigger the camera's shutter. It is particularly conve-

Turn the camera's mode dial to [REC].

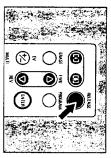


Frame your composition and press the reapproximately 2 seconds later The self-timer LED will light and recording will start lease button on the remote control unit.

0

 You can change the zoom setting with the zoom button on while the [+] button zooms out (wide angle). the remote control unit. The [4] button zooms in (telephoto)

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Remote Adjustment of the Exposure Compensation Setting

- Entering the Mode
- Press the EV(+/-) button on the remote control unit to activate the mode
- Changing the Setting
- Press the [▲]FWD or [▼]REV button to change the value and press the enter button. Press the release button to take the picture.
- Reversing the Setting

Set the exposure compensation value to zero (0)

Remote Shooting in Manual Focus

Entering the Mode

Press the erase button on the remote control unit

Focusing

button to take the picture Press the [▲]FWD or [▼]REV button to adjust the focus. Press the release

Reversing the Setting

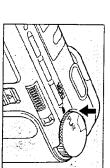
Press the erase button a second time

You can control the replay of recorded files with the remote control unit

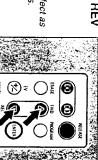
Turn the camera's mode dial to [Play]. The last recorded file will play.

Note:

See Explaining the Playback Screen (p. 70)



Press the remote control unit's FWD or REV button to select an image.



- the buttons on the camera body for these operations. The remote control unit's buttons have the same effect as

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TO A STATE OF THE PARTY OF THE

trol Unit (Zoom Playback)

Entering the Mode

Press the remote control unit's program button

- Moving the Display
- Press the remote control unit's [▲]FWD or [▼]REV button to move the dis-
- Exiting the Mode play to different portions of the image.

the normal display setting. Press the remote control unit's enter button. The LCD monitor will return to

Image Playback with the Remote Control Unit

Entering the Mode

Press the remote control unit's multi button.

Moving the Selection

selection. Press the remote control unit's [\blacktriangle]FWD or [\blacktriangledown]REV button to move the file

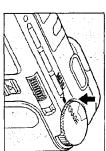
Exiting the Mode

Press the remote control unit's enter button. The selected file will display on the LCD monitor at the single image display setting.

You can control the erasure of single files with the remote control unit

Important Note: 🕳 Please note that erased files cannot be recovered. Check each file's contents before deleting.

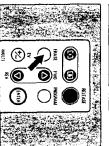
Turn the camera's mode dial to [Erase].



Press the remote control unit's erase but-

The erase menu will display.

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 Press the remote control unit's [▲]FWD or [▼]REV button to select a file.

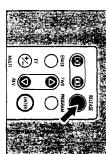
Press the remote control unit's release but-

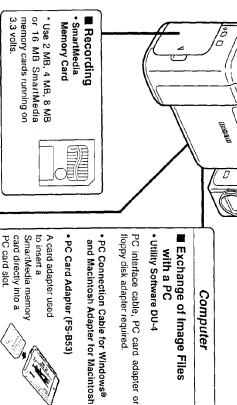
repeat steps 3 and 4. The file will erase. To continue erasing other files

other mode. When finished erasing, switch the mode dial to an-









 PC Connection Cable for Windows® PC Card Adapter (FS-B53) and Macintosh Adapter for Macintosh

Color Copier

SmartMedia memory card directly into a • Floppy Disk Adapter (FS-A10) A floppy disk adapter computer's floppy disk drive.

used to insert a

Remote Control

Unit (DR-3)

Remote Operation

 Hard Case (SC-4) ■ Other ■ Playback

 TV/Video Printer LCD monitor

(connect with supplied video interface

■ Output Color Printer

Recording Files are recorded to SmartMedia memory cards. In standard picture mode (SN mode), approximately 12 pictures can be recorded on a 4 MB

Playback

with the LCD monitor. TV sets conface cable can also be used to view nected with the supplied video inter-Pictures can be verified immediately

Exchanging Image Files with a Computer

connection cable or PC card adapter can be exchanged with a PC. A PC ible with the RDC-4200, image files or floppy disk adapter is required. Using Ricoh utility software compat-

Output

on a color printer or color copier.

* A controller is required for the color

Power Supply

substituted for alkaline cells. For are available. NiCad or NiMH batteries can also be time functions. Rechargeable AA lithium button battery for the date and longer periods of use, AC adapters ies as the main power and a CR2025 Use four generic AA alkaline batter-

images.

Files loaded onto a PC can be output

The second secon

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AA alkaline cells
 AA NiCad rechargeable cells
 AA NiMH rechargeable cells

Allowable Batteries

■ Power Supply AC Adapters:

AC-2 (100-240 V)

AC-2100 (100 V)

Accessories

I Rem	Model :	Model Comments
AC Adapter	AC-2 AC-2100	For drawing power directly from a household electrical outlet. See Using an AC Power Source (p. 28). Note: AC-2100 is only for 110V AC areas.
Hard Case	SC-4	For safely transporting the carnera.
Remote Control Unit	DR-3	For remote operation of the camera's recording and playback functions.
SmartMedia Memory Cards		A postage stamp sized storage media with a thickness of 0.76 millimeters.
4 MB	FS-4	Capable of storing a maximum of 12 images recorded in SN mode.
8 MB	FS-8	Capable of storing a maximum of 24 images recorded in SN mode.
16 MB	FS-16	Capable of storing a maximum of 249 images recorded in SN mode.
PC Card Adapter	FS-B53	A card adapter used to insert a SmartMedia memory card directly into a PC card slot.
Floppy Disk Adapter	FS-A10	A floppy disk adapter used to insert a SmartMedia memory card directly into a computer's floppy disk drive

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- Macintosh is a registered trademark of Apple Computer, Inc., in the United States of America and other countries.
- All trademarked company and product names mentioned in this manual are the property of their respective owners.

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Handling Precautions

- This camera is not waterproof. Be careful around water, rain and beverages. Consult the closest available Ricoh service office if a liquid enters the camera.
- Be careful not to drop the camera or subject it to strong impacts.
- Do not use the flash more than necessary in continuous, consecutive shots to avoid overheating
- Exercise caution to prevent sand and dust from contacting the camera in such environments as beaches or work sites.
- as an automobile with the windows closed, beaches or bathrooms. Do not leave the camera for any length of time in particularly hot or humid places, such
- Verify that the camera power is off before you attach the AC adapter.
- it difficult to view. Direct sunlight and strong light striking the LCD monitor will reflect white light, making
- The LCD monitor may contain some pixels that always or never illuminate and the brightness of some areas of the monitor may appear uneven. These are typical LCD performance characteristics and do not constitute malfunctions.
- Do not force any of the external moving parts, such as the card door, terminal cover or
- Do not pick up or carry the camera by the card door, terminal cover or lens unit.
- Do not impede movement of the lens cover while turning on the power.
- Be careful not to hit the lens unit while carrying the camera around.
- Extreme temperature differentials may cause condensation to form inside the camera bag and let it slowly acclimatize to the new temperature before exposing it. body and lens unit, reducing performance. To avoid this, place the camera in a plastic

Potential Causes of Condensation

air conditioning. Bringing the camera into a recently heated room or leaving it directly in the path of Storing or using the camera in places subject to high humidity. Transporting the camera from a cold place to a warm place

■ Care

- Fingerprints and dirt on the lens will reduce performance so take extra care not to get
- Do not wipe dust or smears off the lens with your fingers. Use a lens blower, readily lightly. available at most photographic suppliers, to blow it off, or a very soft cloth to wipe it
- Be particularly diligent in cleaning the lens after use at the beach or around chemicals
- If your camera should malfunction, take it to the nearest Ricoh service office. This stances should you attempt to dissemble it yourself. product generates high voltages and disassembly is hazardous. Under no circum-
- Never use solvents, benzine, insecticides or other volatile substances on the equipment that may deform or dissolve it.
- Be careful not to let objects rub against the LCD monitor, which is readily susceptible to scratching.
- Remove the batteries and AC adapter from the camera before commencing any of the above. diluted detergent and well-wrung. Wipe off any moisture with a soft, dry cloth.

To clean the LCD monitor, wipe it gently with a soft cloth that has been moistened in

l Storage

Do not store the camera in a drawers or other areas containing insecticides, which may cause malfunctions.

Trouble-Shooting

at the back of this manual. persists after trying the suggestions below, contact the nearest Ricoh service office listed Refer to the pointers below before submitting the equipment for repairs. If the problem

■ Power Source

CONSCINE	Battery charge quickly		, or	Power cuts		Power will not come on	de la colonia
Camera operated in dark area requiring frequent use of the flash	Camera operated in extremely high or low temperature location	Dead batteries	No buttons touched so auto power off function shut camera down	Card door open	AC adapter not attached correctly	Batteries dead, improperty installed or missing	The second secon
ļ		Replace with fresh batteries. (P.23)	Restart camera. (P.41)	Close the card door and retry starting. (P.31)	Plug the cord securely at both ends. (P.28)	Place the batteries in correctly or replace them. (P.23)	S CONTRACTOR

Recording and Playback

										no image recorded	Shutter release button	Problem
contacts dirty	SmartMedia memory card	Flash is charging	Self-timer on	Card door open	SmartMedia memory card not working (service life exceeded)	No space on SmartMedia memory card	SmartMedia memory card not formatted (initialized)	SmartMedia memory card not installed	Shutter release button only pressed halfway	No power or mode dial not set to [REC]	Batteries dead, improperly installed or missing	Long Long St. Co.
con any cioni, (r.du)	Clean contacts with soft doubleth (Back	Wait until flash LED ceases flashing (P.50)	Turn the self-timer off in the record menu. (P.61)	Ensure that card door is securely closed. (P.31)	Replace SmartMedia memory card. (P.31)	Erase unimportant files or replace SmartMedia memory card. (P.31,78)	Format SmartMedia memory card. (P.32)	Check SmartMedia memory card for proper insertion. (P.31)	Press shutter release button all the way. (P.46)	Slide power on and set mode dial to [REC]. (P.41)	Replace or reposition batteries. (P.23)	The state of the s

Sm	con	me:	appear insta		Date and Scr other recording data will not display	Unnatural She coloration in whi image	Bri _e ma	U _D	Image is too Shu dark witt	Bri _i	Q	Image is too Fla bright 35	Image dark Subje even with with the flash meter	Le	Ba	charge oth		Su	not focusing (su	Autofocus is Di	Problem 1
SmartMedia memory card contains files in a format not read by the camera	SmartMedia memory card contains incorrectly recorded files	Incorrectly formatted SmartMedia memory card	SmartMedia memory card not installed or doesn't contain any files	Camera not set to play mode	Screen display set to off	Shooting conditions difficult for white balance in auto mode	Brightness setting of LCD monitor maladjusted	Under-exposed	Shot in low light area attempted with camera set to flash off mode	Brightness setting of LCD monitor maladjusted	Over-exposed	Flash used on subject positioned 35 centimeters or less away	Subject farther than 2.5 meters with the zoom on telephoto or 3.0 meters with the zoom on wide angle	Lens unit is facing operator	Batteries dead	White balance mode set to setting other than auto / B&W / Sepia	Camera set to flash off mode	Subject not readily focused	Subject not in autofocus field (subject to one side in frame)	Dirty lens	Cause
•	Insert a SmartMedia memory card containing pictures properly recorded by the camera. (P.31)	Use a SmartMedia memory card that has been formatted and recorded by your camera. (P.31,32)	Insert a SmartMedia memory card with recorded images. (P.31)	Set mode dial to [Play]. (P.73)	Press the enter button to switch between screen display modes. (P.48)	Place a white object near the subject, use the flash or select one of the manual white balance modes. (P.56)	Adjust brightness adjustment dial on camera bottom. (P.35)	Use record menu to adjust exposure compensation. (P.54)	Use flash button to set flash mode to another setting. (P.51)	Adjust brightness adjustment dial on camera bottom. (P.35)	Use record menu to adjust exposure compensation. (P.54)	Retake picture without flash. (P.51)	Come closer to subject.	Reposition lens unit. (P.37)	Replace batteries. (P.23)	Use record menu to set the white balance to auto / B&W / Sepia. (P.56)	Change flash mode with flash button. (P.51)	Use focus lock or switch to manual focus. (P.64,66)	Use focus lock (aim directly at subject, press shutter release button halfway, hold and re-aim) (P.64)	Clean lens with blower or soft dry cloth. (P.98)	Cause Cause

Problem ***	Tayle Cause Tayler	Problem West Cause Cause Solution
Can't playback	Card door open	Ensure that card door is securely closed. (P.31)
appear	Video interface cable poorly connected	Check connection. (P.71)
	Source of interference, such as electric motor, nearby	Relocate camera away from source.
	SmartMedia memory card contacts dirty	Clean contacts with soft dry cloth. (P.30)
Replay is not clear	Error with SmartMedia memory card	Test camera with another SmartMedia memory card. If second card displays well, problem is with card not camera.
Display shut	Dead batteries	Replace batteries. (P.23)
Si	Auto power off activated	Slide power on again. (P.41)
Remote control will not	Obstruction between the remote control unit and camera sensor	Remove the obstruction. (Sensor is on the LCD monitor side of camera.)
2	Dirty remote control transmitter or camera sensor	Clean with a soft dry cloth. (P.98)
	Dead remote control batteries	Replace CR2032 lithium batteries. (P.26)
LCD monitor brightness changes	Area captured by autofocus field and the surrounding area have contrasting light levels or the entire	There is no malfunction.
during autofocus operation	subject is dark	
Vertical lines appear on image	Phenomenon occurring with pictures of bright subjects, known as the smudge phenomenon	There is no malfunction.
Miscellaneous	Decis .	

■ Miscellaneous

Date and time are wrong	even when buttons and switches are manipulated	Camera will	slot	SmartMedia memory card	Problem 1
Date and time setting is incorrect	Camera malfunction	Dead batteries	SmartMedia memory card incorrectly oriented	Wrong type of SmartMedia memory card	A CALLED A CALL
Reset the date and time. (P.34)	Slide the power off and on once. Turn the mode dial to [REC] or [Play]. If the problem persists, (1) reset the camera by sliding the power switch after removing the main and date batteries, and (2) reinstall the batteries and try to operate the camera again. (P.41,44)	Replace batteries. (P.23)	Insert the SmartMedia memory card the correct way. (P.31)	Use a SmartMedia memory card specified for the camera. (P.30)	Solution



<u>1</u>01

Use record menu to enable beep. (P.86)	Beep disabled	Beep will not sound
1	Camera powered by AC adapter (auto power off is automatically disabled when powered by an AC adapter)	activate
Enable setting. (P.85)	Auto power off setting is disabled	Auto power off
Reset mode.	Batteries have been removed with save mode active	Mode settings have changed
Slide power on and retry.	Power switch off or auto power off activated.	
Use the play menu to reset the file's protection setting. (P.77)	File protected	won't format
Remove pad from SmartMedia memory card. (P.30)	Write protect pad on SmartMedia memory card	SmartMedia
Turn the mode dial to [Erase]. (P.78)	Camera not set to erase mode	File won't
Reset the date and time settings. (P.34)	Camera was reset to the default settings or the date and time display setting was altered	disappeared
Replace date battery and reset date and time. (P.26,34)	Dead date battery	Date and time were set but
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Using Your Digital Camera in Other Countries

Ricoh AC-2 AC adapter (optional)

- The AC-2 AC adapter adjusts automatically to voltages ranging from 100V to 240V AC and frequencies of 50Hz to 60 Hz.

Ricoh AC-2100 AC adapter (optional)

About the warranty

Viewing the Image on a TV set

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

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

Some countries use electrical outlets which have different shapes. Before leaving on a trip, obtain the necessary plug adapter from a travel agent or electric store.

The AC:2100 AC adapter can only be used in locations where 120V AC is used.

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

About the Warranty and Servicing

- 1. The Ricoh RDC-4200 camera is backed by a one-year limited warranty. During the service office to your residence. Call the Ricoh service office before shipment to re which you purchased the camera or contact the nearest Ricoh service office. Please ceive amount that needs to be included. (U.S.A. only) note that you will be charged for the cost of shipping the camera from the Ricoh repaired free of charge. In the event of a camera malfunction, contact the dealer from warranty period, which starts from the date of purchase, any defective parts will be
- 'n This warranty does not cover any damage resulting from:
- Failure to follow the instructions in this instruction manual;
- Repair, modification or overhaul not conducted by an authorized service station specified in this instruction manual;
- Fires or natural disaster;
- ≤. =: or insect repellents; storing it with leaking batteries; storing the camera in a dirty Improper storage, such as exposing the camera to high temperatures, humidity condition so that it becomes moldy; or otherwise insufficiently caring for the cam-
- Submergence; exposure to floods or spilled alcoholic or other beverages; allowing sand or mud to enter the camera; exposure to physical shocks; or dropping of the camera.
- ω After a full year has passed from the purchase date, you will become responsible for all repair fees, including those incurred at an authorized service station.
- 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.
- request will be charged to the customer, whether or not they are incurred during the Expenses for overhauls and thorough inspections as a result of a customer's special
- This warranty only applies to the camera and not to the accessories, such as the hard case and wrist strap, nor does it apply to the consumables provided, such as batter-

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- Any consequential damage arising from the failure of this camera, such as expenses for taking pictures or loss of expected profit, will not be reimbursed whether they occur during the warranty period or not.
- œ card provided with this camera. legal rights. The intention of the above provisions are also described in the warranty The above provisions refer to repairs offered free of charge, and do not limit your

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

- Before sending the camera in for repair, check the batteries and read this instruction manual again to ensure proper operation.
- Some repairs require a significant amount of time to be completed. Please allow sufficient time for
- When sending the camera to a service representative, please include a note which describes the defective part and the problem as precisely as possible
- Remove all accessories not related to the problem before sending the camera to a service repre-
- to check its operation and ensure proper functioning. We recommended that you keep this manual Before taking any important pictures (such as at weddings, on trips abroad, etc.) test the camera

Power Source and Voltage Video Signal Protocol

Dimensions (W x H x D)

Weight

Operating Range - Relative Humidity: 85% or less Operating Range - Temperature

: 0° to 40° C (32° to 104° F)

teries)

approximately 285 g (10.05 oz.) (excluding bat

136.5 x 64 x 34 mm (5.37" x 2.52" x 1.34")

(excluding grips)

Batteries: 6 volts

AC: 5 volts

: -20° to 60° C (-4° to 140° F)

CCD Camera

: 1/3" 1.32 million square pixels

(effective: 1.22 million), RGB filter

Lens Focal length

> f=5.6-16.8 mm Zoom lens F=2.8 - 4.8

(equivalent to 35-105 mm on 35mm camera

Minimum shooting range

Approximately 8 cm (3.2*) (macro),

40 cm (15.8") (non-macro)

Monitor Picture Elements Drive System Display Size

Exposure Compensation TFT Active Matrix SystemApproximately 60,000 pixels Auto/Preset (Daylight, Fluorescent Light, Tungsten Light, B&W and Sepia)

White Balance

: Centerweighted

 Exposure Value Memory System: Auto backlighting detection Light Metering System

TTL-CCD method crements) Manual compensation, ±2.0 EV (in 0.5 EV in-

: Yes (daylight synchro)

Flash Automatic Exposure

Metering

F 2.8-F 14

1-1/500

Approximately equivalent to 80 - 100

13.8")

TTL-CCD AF

Distance Adjustment

 ISO Sensitivity Shutter Speed

 Autofocus Range Autofocus Method

: 8 cm (3.2") to infinity / macro: 8 to 35 cm (3.2"-

Built-in Flash

 Range Type

Modes

: 0.55 - 3.8 m (1.8 - 12.47)(telephoto) 0.55 - 4.5 m (1.8 - 14.76) (wide angle)

: Off/On/Auto

■ Image Data Recording and Playback

File Format Image Resolution

Compression Format

Approximate File Sizes

SE mode: 168 KB, F mode: 168 KB,

SF mode: 616 KB, SN mode: 312 KB, NC: YCbCr Non-compressed TIFF (Exit2.0) JPEG baseline method JPEG (Exit2.0)

1280 x 960, 640 x 480 pixels

■ Body

Tripod Screw Hole

: Tapped (1/4-20 UNC)

N mode: 88 KB, E mode: 56 KB, NC: 2.4 MB

Length: less than 5.7 millimeters (0.22")

Main Batteries ■ Power Supply

Type

: AA alkaline cells

Date Battery Voltage

 Voltage Type

Auto Power Off Service Life

Activates after more than 5 minutes Approximately 8 months 3 volts, 160 mAh

CR2025 lithium cells

: 6 volts (1.5 volts x 4 cells)

AA NiCad cells AA NiMH cells

Compatible Memory Cards for Recording and Playback

Type of Memory

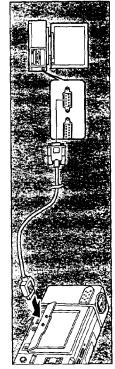
SmartMedia memory card

: 3.3 volts 2, 4, 8 and 16 MB

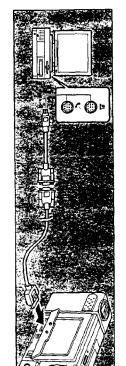
 Operating Voltage Capacity

A connection cable is required to connect the RDC-4200 to a computer

- Shut down and turn off the computer if it is running.
- Check that the camera power is off. Connect the connection cable to using the RS-232C port on computers using the Windows platform and the printer/modem port on Macintosh computers. the camera's RS-232C/AUX terminal and the other end to the computer,
- Windows Platform



Macintosh



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- Slide the camera power switch on.
- 4 Turn the camera's mode dial to [PC].
- 5 Turn on the computer and start the DU-4 software program.

- Avoid running the camera on batteries when connecting to a computer to prevent battery failure
 from interrupting operations and requiring you to start over again.
 Turn the camera off before connecting or disconnecting the AC adapter.

Advanced Features and Other Topics

Recording Capacity

The following are the maximum number of images per SmartMedia memory card by card capacity and PIC mode.

			16 MB							8 MB	,						4 MB							2 MB				and the second
NC	Е	z	П	SE	SN	SF	NC	П	Z	F	SE	SN	SF	NC	m	2	F	SE	SN	SF	NC	E	z	F	SE	SN	SF	
6	249	166	90	90	49	25	3	142	90	47	47	25	12		70	45	23	23	12	6	•	35	22	11	11	6	3	