Chapter 5. Advanced Features and Other Topics

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Exchanging Image Files with a Computer

computer. The optional DU-4 software is required to exchange files between the RDC-4300 and a

Important Note: --

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

Preparations

	Platform	3	Commonts
	Windows	Windows Macintosh	Culliforing
Software	DU-4	I-4	Software programs exclusive to the RDC-4300
PC Interface cable*	PC Connection Cable	PC Connec-Specialized tion Cable + eras to PCs Mac Adapter	PC Connecting digital camtion Cable + eras to PCs Mac Adapter
PC Card Adapter*	FS-	FS-A53	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

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

System Requirements

Windows® 95

System Software: Display Resolution: Disk Requirements When Installed: RAM:

CD-ROM Drive: Colors:

> 486 DX+ (Pentium+ recommended) Microsoft® Windows® 95 16 MB+ (32 MB+ recommended)

6 MB+ 256+ (32,000+ recommended (800 x 600 pixels+ recommended) 640 x 480 pixels+

Required for software installation

Note:

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- Software may not operate correctly with Windows® NT 4.0
- Software not compatible with Windows® 3.1 or Windows® NT 3.51.

Macintosh

System Software:

Display Resolution: Disk Requirements When Installed:

6 MB+

QuickTime™: CD-ROM Drive: Colors:

Version 2.5+

16 MB+ (32 MB+ recommended) 68030 or Power PC Apple Macintosh® System Software 7.6+or 8

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

Processing Files on a Computer

files immediately on delete] option. Re-delete the files in question memory card and place a check in the [Do not move files to the Recycle Bin. Remove occurs, open the [Properties] dialog for the Recycle Bin and click the [Options] tab. Seputer 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 comlect the [Configure drives independently] option, select the drive containing the SmartMedia

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.

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

The following can be adjusted on the RDC-4300 to suit user requirements: power saving mode, auto power off mode, beep mode and save settings mode.

Power Saving Mode Settings

when shut off by the auto power off mode). saving mode is set to continuous, the LCD monitor will display continuously (excepperformed 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 camera operation is not period of time to preserve battery power (although slight, it still consumes power). When ing activation of the power switch or operation of another function. When the power 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



2 Slide the zoom button to select the [Display] option and press the enter button.

SPLAY : CONTINUE

SETTING

The settings menu will display.

 To cancel the operation and return to the record menu, press the menu button a second time.



Slide the zoom button to select a time op-MONT NUE DISPLAY 2 X X I N (RECORD) 1MIN. 30SEC. 10SEC.

tion and press the menu button.

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

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

BACK: MENU

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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:

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

 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

approximately 5 minutes. The auto power off mode can be disabled by setting it to off modes to conserve the battery if left untouched (no buttons or switches manipulated) for either the record or play menu. 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 time.
- Slide the zoom button to select [Auto Power

To cancel the operation, press the menu button a second

SEL : ENTER BACK : MENU

S MODE :OFF
BEEP
PAUTO POWER OFF :ON
NC SELECT :OFF
INITIALIZE SETTING

Press the enter button to change the setting to [Off] and press the menu button.
The auto power off mode is now disabled.



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MENU [RECORD] MODE

- 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 adapter (optional).

How to Enable the Auto Power Off Mode

off will become effective again. Follow the procedures above, changing the setting to [On] in step 4. 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 menu button.

The record menu will display

- To cancel the operation, press the menu button a second
- BEEP ON ON NC SELECT OFF MENU (RECORD) SETTING

SEL : ENTER BACK : MENU

Slide the zoom button to select the [Beep] option.

To cancel the operation, press the menu button a second

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

The long beeping sounds produced as a warning, or to notify of an error, are not disabled or affected by any change to this setting.

SEL.: ENTER BACK: MENU

BEEP OFF
AUTO POWER OFF ON
NC SELECT OFF

KEEP SETTING

SPLAY CONTINUE

How to Restore the Beep

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will now sound. Follow the procedures above, changing the option in step 10 to [On]. The beep

Adding PIC Mode Options (NC Mode)

data, add the NC mode to the picture mode options. image data when recording. If you wish to have the option of recording non-compressed There are six standard PIC modes (\square SF, \square SN, \square SE, \square F, \square N, \square 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 transfers 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 menu button.

The record menu will display

To cancel the operation, press the menu button a second

Select] option.

- Slide the zoom button to select the [NC S MODE :OFF
 BEEP
 AUTO POWER OFF :ON
 NC SELECT :OFF
 INITIALIZE SETTING SEL. : ENTER BACK : MENU KEEP SETTING ISPLAY : CONTINUE
- Press the enter button to change the set-The NC select option is now available. ting to [On] and press the menu button.

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4 Press the PIC button and select a PIC

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-The NC option will display in the settings menu.

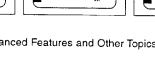
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How to Reverse the Settings

Repeat the step above, changing the setting to [Off] in step

The NC option will disappear from the picture mode display.

Keep Settings

setting is saved and becomes effective when the camera is powered. The following set tings can be saved. The Keep Setting mode is for preserving settings after the power is turned off. Each

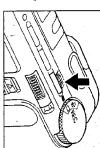
- Recording Mode (p. 50)
- Exposure Compensation Mode (p. 59)Flash Mode (p. 55)S Mode (p. 70)
- White Balance Mode (p. 61)

PIC Mode (p. 42)

menu button. The record menu will display

Turn the mode dial to [REC] and press the

To cancel the operation, press the menu button a second



Slide the zoom button to select the [Keep To cancel the operation and return to the record menu, press Setting] option and press the enter button. MENU [RECORD] SETTING

The save mode setting menu will display.

SEL : ENTER BACK: MENU S MODE :OFF BEEP ONER OFF :ON NC SELECT :OFF INITIALIZE SETTING

MENU (RECORD) PXEEP SETTING RECORDING MODE : OFF +/- WHITE BALANCE : OFF FLASH IMAGE QUALITY : OFF S MODE SEL : ENTER BACK: MENU		
		DUAL NG ING
תהודות ב	MENU	

Press the enter button to change the setting to [On].

change the settings for the other modes, repeat steps 3 and 4 as required. The Keep setting is now active for that mode. To

be saved when the power is shut off. The settings for the modes changed to [On] will now

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SEL : ENTER BACK: MENU RECORDING MODE WHITE BALANCE MENU [RECORD] QUALITY

5 When you have finished changing settings, press the menu button to close the save mode settings menu.

record menu. The record menu will display Press the menu button a second time to clear the

How to Reverse the Settings

Repeat the steps above, changing the setting to [Off] in step 4. The settings will now revert to their defaults when the power is shut off.

Initialize Settings

Resets the date and time and other settings

Important Note: -

The modes set in the save mode settings menu will also be set to their defaults (off).

menu button. The record menu will display

Note:

To cancel the operation, press the menu button a second

Slide the zoom button to select the [Initialize Setting] option and press the enter but-9

The initialize settings menu will display

Slide the zoom button to select a mode.

the menu button a second time.

To cancel the operation, press the menu button a second

Slide the zoom button to select [Yes] and press the enter button.

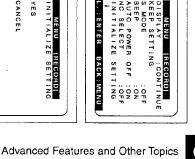
tory default settings. Resetting the default settings does not delete recorded files The recording mode settings will be set to their fac-

▼YES

CANCEL







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SEL : ENTER

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: -

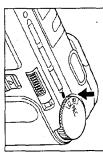
The remote control reception is located just below the enter button on the LCD monitor side of the camera. Operate the remote control unit with it pointed toward the sensor.

Note:

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

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

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



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2 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.

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

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Remote Adjustment of the

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Entering the Mode

Press the EV(+/-) button on the remote control unit to activate the mode.

Changing the Setting

button. Press the release button to take the picture Press the [▲]FWD or [▼]REV button to change the value and press the enter

Reversing the Setting

Set the exposure compensation value to zero (0)

Remote Shooting in Manual Focus

- Entering the Mode
- Focusing Press the erase button on the remote control unit

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

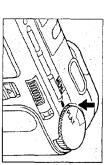
Reversing the Setting

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

See Explaining the Playback Screen (p. 72)

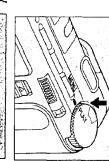


Press the remote control unit's FWD or REV button to select a file.

remote control unit's release button to play the To play a picture + sound or sound file, press the

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

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Magnifying the Display with the Remote Control Unit (Zoom Playback

Entering the Mode

Press the remote control unit's program button.

Moving the Display

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

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

Multi 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 [▲]FWD or [▼]REV button to move the file

other mode.

Exiting the Mode

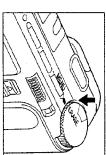
Press the remote control unit's enter button. The selected file will display on the LCD monitor at the single image display setting.

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].



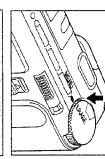
Press the remote control unit's erase but-

The erase menu will display.

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③ Press the remote control unit's [▲]FWD or [▼]REV button to select a file.

ERASE

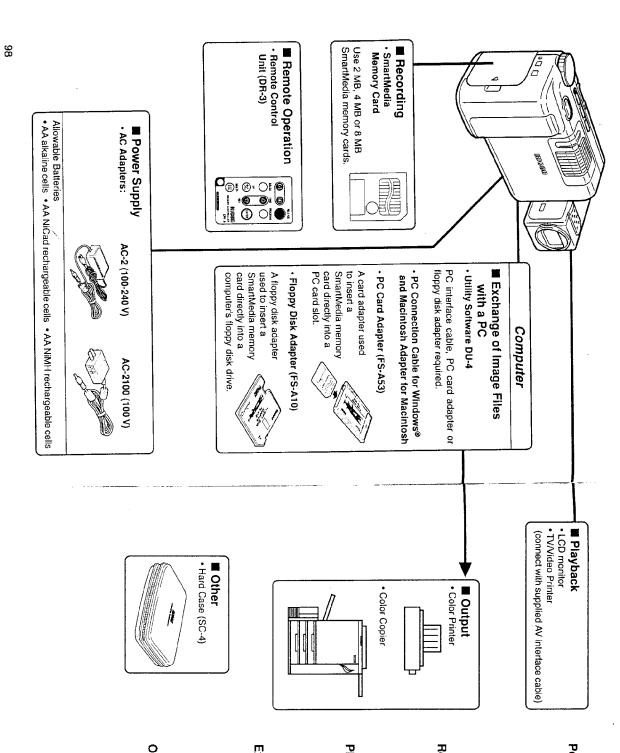
Press the remote control unit's release but-

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









Power Supply

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

Recording

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

Playback

Pictures can be verified immediately with the LCD monitor. TV sets connected with the supplied AV interface cable can also be used to view images.

Exchanging Image Files with a Computer

Using Ricoh utility software compatible with the RDC-4300, image files can be exchanged with a PC. A PC connection cable or PC card adapter or floppy disk adapter is required.

Output

Files loaded onto a PC can be output on a color printer or color copier.

A controller is required for the color

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Item	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 camera.
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.
PC Card Adapter	FS-A53	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 Cried Brademark 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.

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.
- Do not leave the camera for any length of time in particularly hot or humid places, such as an automobile with the windows closed, beaches or bathrooms.
- Verify that the camera power is off before you attach the AC adapter.
- Direct sunlight and strong light striking the LCD monitor will reflect white light, making it difficult to view.
- 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 lens unit.
- 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 bang the lens unit while carrying the camera around.

Extreme temperature differentials may cause condensation to form inside the camera body and lens unit, reducing performance. To avoid this, place the camera in a plastic bag and let it slowly acclimatize to the new temperature before exposing it.

Potential Causes of Condensation

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

I 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 available at most photographic suppliers, to blow it off, or a very soft cloth to wipe it lightly.
- 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, benzene, insecticides or other volatile substances on the equipment that may deform or dissolve it.
- Be careful not to let hard objects rub against the LCD monitor, which is readily susceptible to scratching.
- To clean the LCD monitor, wipe it gently with a soft cloth that has been moistened in diluted detergent and well-wrung. Wipe off any moisture with a soft, dry cloth.

* Remove the batteries and AC adapter from the camera before commencing any of the above.

Storage

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

Trouble-Shooting

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

■ Power Source

!	Camera operated in dark area requiring frequent use of the flash	consumed
:	Camera operated in extremely high or low temperature location	arge
Replace with fresh batteries.	Dead batteries	
Restart camera.	No buttons touched so auto power off function shut camera down	out
Close the card door and retry starting	Card door open	Power cuts
Plug the cord securely at both ends.	AC adapter not attached correctly	
Place the batteries in correctly or replace them.	Batteries dead, improperly installed or missing	Power will not come on
Solution	Problem Cause	Problem

I Recording and Playback

Flash is charging Wait until flash LED cease			Self timer on Turn the self timer off in the	Card door open Ensure that card door is se	SmartMedia memory card not working (service life exceeded) Replace SmartMedia mem	No space on SmartMedia Erase unimportant files or memory card SmartMedia memory card.	SmartMedia memory card not Format SmartMedia memory card not formatted (initialized)	SmartMedia memory card Check SmartMedia memory card inserted in reverse or not installed proper insertion.	Shutter release button only pressed halfway	no image [REC] RECO	Shutter Batteries dead, improperly Replace or reposition batte release button installed or missing	Problem Cause Cause Solution	1
	Wait until flash LED ceases flashing.	Set the camera to another mode in the record menu	Turn the self timer off in the record menu.	Ensure that card door is securely closed.	Replace SmartMedia memory card.	Erase unimportant files or replace SmartMedia memory card.	Format SmartMedia memory card	Check SmartMedia memory card for proper insertion.	Press shutter release button all the way.	Slide power on and set mode dial to [REC].	Replace or reposition batteries.	Solution	

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	Autofocus is Dirty lens	Dirty lens	Clean lens with blower or soft dry cloth.
won't of the won't	on but camera in tot focusing	Subject not in autofocus field (subject to one side in frame)	Use focus lock (aim directly at subject, press shutter release button halfway, hold and re-aim)
won't odark tith tith too is too		Subject not readily focused	Use focus lock or switch to manual focus.
will not	Elash won't ire, or won't	Camera not set to picture mode or picture + sound mode	Use record menu to switch to picture mode or picture + sound mode.
e dark with a dark of	charge	Camera set to flash off mode	Change flash mode with flash button.
e dark the with the left too l		White balance mode set to setting other than auto	Use record menu to set the white balance to auto.
e is too e is too le is to		Batteries dead	Replace batteries.
e dark with with e is too le is too		Lens unit is facing operator	Reposition lens unit
is too is too distribution in distribution distributio	mage dark even with lash	Subject farther than 2.5 meters with the zoom on telephoto or 3.0 meters with the zoom on wide angle	Come closer to subject.
is too ditribution in distribution distribution in distribution distributio	mage is too oright	Flash used on subject positioned 35 centimeters or less away	Retake picture without flash.
ge is too adural aration in ge rd rd		Over-exposed	Use record menu to adjust exposure compensation.
ge is too attural ration in ge rd will not rd		Brightness setting of LCD monitor maladjusted	Adjust brightness adjustment dial on camera bottom.
ural tion in	lmage is too dark	Shot in low light area attempted with camera set to flash off mode	Use flash button to set flash mode to another setting.
ural tion in will not		Under-exposed	Use record menu to adjust exposure compensation.
tion in		Brightness setting of LCD monitor maladjusted	Adjust brightness adjustment dial on camera bottom.
	Unnatural coloration in image	Shooting conditions difficult for white balance in auto mode	Place a white object near the subject, use the flash or select one of the manual white balance modes.
No power or mode dial [REC] Shutter release button pressed halfway SmartMedia memory of inserted in reverse or resourced in feverse or reformatted (initialized). No space on SmartMedia memory card	Sound will not record	Batteries dead, improperly installed or missing	Replace or reposition batteries.
Shutter release button pressed halfway pressed halfway SmartMedia memory c inserted in reverse or r SmartMedia memory c formatted (initialized) No space on SmartMe memory card SmartMedia memory c constitution for the formatted from the formatter of the second statement of the second space of the second sp		No power or mode dial not set to [REC]	Slide power on and set mode dial to [REC].
SmartMedia memory o inserted in reverse or r SmartMedia memory o formatted (initialized) No space on SmartMe memory card SmartMedia memory card		Shutter release button only pressed halfway	Press shutter release button all the way.
SmartMedia memory c formatted (initialized) No space on SmartMe memory card SmartMedia memory c		SmartMedia memory card inserted in reverse or not installed	Check SmartMedia memory card for proper insertion.
No space on SmartMe memory card SmartMedia memory c		SmartMedia memory card not formatted (initialized)	Format SmartMedia memory card.
SmartMedia memory c	a.	No space on SmartMedia memory card	Erase unimportant files or replace SmartMedia memory card.
MOINING (Service in execepted)			Doologo Compatibodio momono cord

Problem	Cause	Problem Cause Solution
record (cont'd)	Camera not set to sound mode	Use record menu to switch to the sound mode.
Date and other recording data will not display	Screen display set to off	Press the enter button to switch between screen display modes.
Can't playback or image won't appear	Camera not set to play mode SmartMedia memory card not installed or doesn't contain any files	Set mode dial to [Play]. Insert a SmartMedia memory card with recorded images.
	Incorrectly formatted SmartMedia memory card	Use a SmartMedia memory card that has been formatted and recorded by your camera.
	SmartMedia memory card contains incorrectly recorded files	Insert a SmartMedia memory card containing pictures properly recorded by the camera.
	SmartMedia memory card contains files in a format not read by the camera	:
	Card door open	Ensure that card door is securely closed.
	AV interface cable poorly connected	Check connection.
•	Source of interference, such as electric motor, nearby	Relocate camera away from source.
	SmartMedia memory card contacts dirty	Clean contacts with soft dry cloth.
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.
Remote	Auto power off activated Obstruction between the remote	Slide power on again. Remove the obstruction. (Sensor is on
work	Dirty remote control transmitter or	Clean with a soft dry cloth
	camera sensor	Clean with a soft dry cloth.
	Dead remote control batteries	Replace CR2032 lithium batteries.
LCD monitor brightness changes during autofocus operation	Area captured by autofocus field and the surrounding area have contrasting light levels or the entire subject is dark	There is no malfunction.
Vertical lines appear on image	Phenomenon occurring with pictures of bright subjects, known as the smudge phenomenon	There is no malfunction.

■ Miscellaneous

Problem		Solution
<u> </u>		Use a SmartMedia memory card specified for the camera.
slot	SmartMedia memory card incorrectly oriented	Insert the SmartMedia memory card the correct way.
Camera will	Dead batteries	Replace batteries.
not operate even when buttons and switches are manipulated	Camera malfunction	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.
Date and time are wrong	Date and time setting is incorrect	Reset the date and time.
Date and time were set but	Dead date battery	Replace date battery and reset date and time.
disappeared	Camera was reset to the default settings or the date and time display setting was altered	Reset the date and time settings.
File won't	Camera not set to erase mode	Turn the mode dial to [Erase].
erase or SmartMedia	Write protect pad on SmartMedia memory card	Remove pad from SmartMedia memory card.
won't format	File protected	Use the play menu to reset the file's protection setting.
	Power switch off or auto power off activated.	Slide power on and retry.
Mode settings have changed	Batteries have been removed with save mode active	Reset mode.
Auto power off	Auto power off setting is disabled	Enable setting.
will not activate	Camera powered by AC adapter (auto power off is automatically disabled when powered by an AC adapter)	-
Beep will not sound	Beep disabled	Use record menu to enable beep.

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

Ricoh AC-2100 AC adapter (optional)

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

About the warranty

- A wide range of power supplies can be used from 100V to 240V and 50 Hz or 60 Hz.
- 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.

Viewing the Image on a TV set

- Make sure to check if the TV set operates in the NTSC format with a image input terminal.
- The included AV connection cable is required.

The NTSC format is used in the following countries.

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

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About the Warranty and Servicing

- The Ricoh RDC-4300 camera is backed by a one-year limited warranty. During the warranty period, which starts from the date of purchase, any defective parts will be which you purchased the camera or contact the nearest Ricoh service office. Please repaired free of charge. In the event of a camera malfunction, contact the dealer from service office to your residence. note that you will be charged for the cost of shipping the camera from the Ricoh
- '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;
- Improper storage, such as exposing the camera to high temperatures, humidity, condition so that it becomes moldy; or otherwise insufficiently caring for the camor insect repellents; storing it with leaking batteries; storing the camera in a dirty
- 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.
- all repair fees, including those incurred at an authorized service station. After a full year has passed from the purchase date, you will become responsible for
- 4 warranty card is not attached or if the distributor's name or the purchase date have You will be responsible for all repair fees, even within the warranty period, if the been changed or are not indicated on the card.
- Expenses for overhauls and thorough inspections as a result of a customer's special warranty period. request will be charged to the customer, whether or not they are incurred during the
- case and wrist strap, nor does it apply to the consumables provided, such as batter-This warranty only applies to the camera and not to the accessories, such as the hard

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- 7. Any consequential damage arising from the failure of this camera, such as expenses occur during the warranty period or not. for taking pictures or loss of expected profit, will not be reimbursed whether they
- œ 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
- 9 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 mainyears 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 vice representative even after the seven-year period.
- 10. Please note that, if the camera is seriously damaged from flooding, submergence, able, and restoration to its original condition may be determined to be impossible infiltration of sand or mud, violent shocks or dropping, the camera may not be repair-

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

Specifications

Dimensions (W \times H \times D)		Power Source and Voltage	Video Signal Protocol	■ General
: 136.5 x 64 x 34 mm (5.37" x 2.52" x 1.34".)	AC: 5 volts	: Batteries: 6 volts	: NTSC	

Weight : 0° to 40° C (32° to 104° F) : approximately 285 g (10.05 oz.) (excluding bat-(excluding grips)

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

: -20° to 60° C (-4° to 140° Fahrenheit)

Zoom lens F=2.8-4.7 (effective: 1.22 million), RGB filter

: 1/3" 1.32 million square pixels

Lens

Focal length

■ Camera

: f=5.6-16.8 mm (equivarent to 35-105 mm on 35mm camera

Approximately 8 cm (3.2") (macro) 35 centimeters (13.8") (non-macro)

Auto/Preset (Daylight, Fluorescent Light and

TFT Active Matrix System

Approximately 110,000 pixel

White Balance

Picture Elements

Monitor

Minimum shooting range

Display SizeDrive System

Tungsten Light)

Exposure Compensation Light Metering System : Centerweighted

 Exposure Value Memory System: Auto backlighting detection Manual compensation, ±2.0 EV (in 0.5 EV in-

crements)

 Flash Automatic Exposure TTL-CCD method

Metering

Yes (daylight synchro)

Approximately equivalent to ISO 40-80 F 2.8-F 14

Distance Adjustment

ISO Sensitivity Aperture Shutter Speed

Autofocus Range

Autofocus Method

: 8 cm (3.2") to infinity / macro: 8 to 40 cm (3.2"-: TTL-CCD AF

> **Built-In Flash** ·Type

 Modes Range : 0.35 - 2.50 m (1.15'- 8.20')(telephoto) 0.35 - 3.00 m (1.15 - 9.84') (wide angle) : Off/On/Auto

■ Image Data Recording and Playback

File Format mage Resolution : 1280 x 960, 640 x 480 pixels

JPEG (Exif2.0) NC: YCbCr Non-compressed TIFF (Exit2.0)

Compression Format Approximate File Sizes SF mode: 616 KB, SN mode: 312 KB, SE mode: 168 KB, F mode: 168 KB, JPEG baseline method

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

Sound Data Recording and Playback

File Format Recording Time 8 seconds per file (with image). Maximum vol-WAV (Exif2.0)

ume: 16 minutes 59 seconds (sound only: 8 MB SmartMedia memory card)

■ Input/Output Terminals

Video Output Audio Output Power Input : 1.0 Vp-p (75) : 5 volts (AC adapter) -11.5 dBs (10 k)

RS-232C/AUX Earphone Output

■ Body

Tripod Screw Hole

1.4 Vpp or more, diameter 3.5 mm

Proprietary

Power Supply

Main Batteries ·Type : AA alkaline cells

AA NiCad cells AA NIMH cells

: 6 volts (1.5 volts x 4 cells) CR2025 lithium cells 3 volts, 160 mAh

Date Battery

·Type

Voltage

Activates after more than 5 minutes Approximately 8 months

Auto Power Off

 Voltage Service Life

Compatible Memory Cards for Recording and Playback

 Type of Memory SmartMedia memory card

 Operating Voltage 2, 4 and 8 MB

: 3.3 volts, 5.0 volts

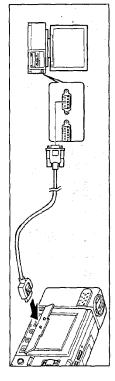
Ξ

Length: less than 5.7 millimeters (0.22")

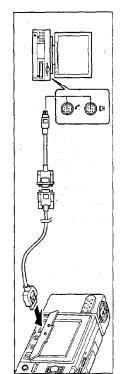
Tapped (1/4-20 UNC)

A connection cable is required to connect the RDC-4300 to a computer.

- Shut down and turn off the computer if it is running.
- ② Confirm that the camera power is off. Connect the connection cable to the camera's RS-232C/AUX terminal and the other end to the platform and the printer/modem port on Macintosh. computer, using the RS-232C port on computers using the Windows
- Windows Platform



Macintosh



Slide the camera power switch on.

- Turn the camera's mode dial to [PC].
- 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.

Recording Capacity

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

į		0	S MA							4 MB	r						2 MB				Card 3 Mode	SmartMedia
	ш	z	Ŧ	SE	SN	SF	NC	т	Z	П	SE	SN	SF	NC	m	N	F	SE	SN	SF	Mode -	Recording
د.	142	90	47	47	25	12	1	70	45	23	23	12	6		35	22	11	11	6	3	or 🕰	
w	66	52	34	34	21	11		33	26	17	17	10	5	1	16	13	8	8	5	2	□+00 or 121+00	Picture Mode
_			16 minutes 59 seconds		L			<u> </u>		8 minutes 27 seconds						L	4 minutes 13 seconds	I	I		8	de