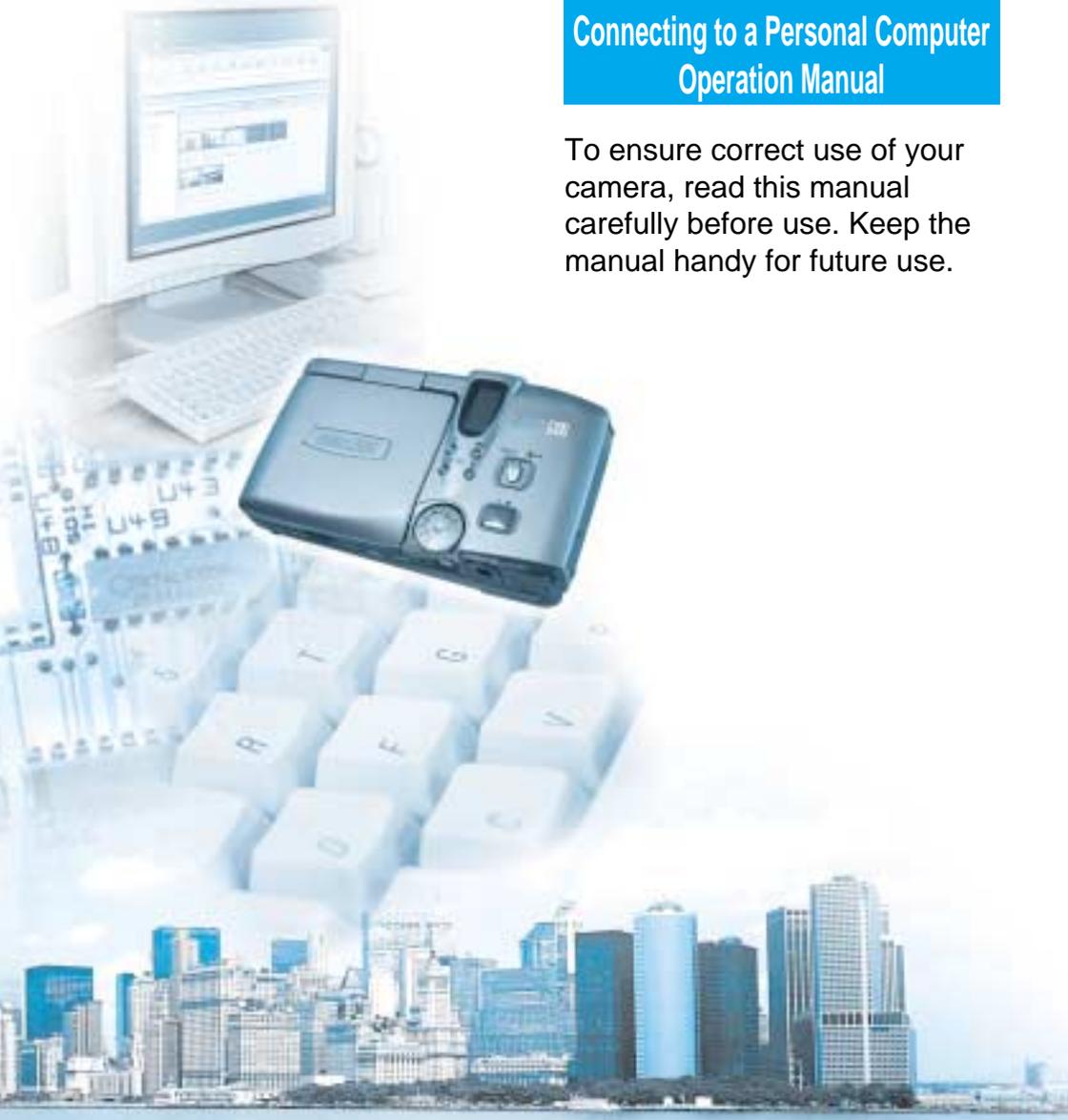


RICOH

RDC-i700 **IMAGE CAPTURING DEVICE**

Connecting to a Personal Computer Operation Manual

To ensure correct use of your camera, read this manual carefully before use. Keep the manual handy for future use.



Introduction

Thank you for purchasing a Ricoh RDC-i700. This manual explains the correct handling procedures and precautions for your camera. To ensure the best performance, please read the manual thoroughly before using the camera. Keep the manual handy for quick future reference.

Ricoh Co., Ltd.

Test Shots

Check that your camera is recording the images correctly by taking a number of test shots.

Copyright

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Exemption from Liability

Ricoh Co., Ltd. assumes no liability for failure to record or play back images caused by malfunction of the RDC-i700.

Warranty

This product is manufactured to local specifications and the warranty is valid within the country of purchase. Should the product fail or malfunction while you are abroad, the manufacturer assumes no responsibility for servicing the product locally or bearing the expenditure incurred therefor.

Radio Interference

Operating the RDC-i700 in the vicinity of other electronic equipment may adversely affect the performance of both devices. In particular, operating the camera close to a radio or television may lead to interference. If interference occurs, follow the procedures below.

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

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How to Use the Operation Manuals

Five operation manuals are supplied with this camera.
Use each operation manual as shown below to suit the purpose.

Open the package



Read This Before Proceeding!

These instructions explain the procedure for checking the contents of the package and loading the battery to enable you to use the camera straightaway.



Basic operation

Camera Operation Manual

This manual explains in detail the preparations to take before using the camera together with the procedures for shooting and playback using the various functions.



Using the communication and Internet functions

Communication/Internet Operation Manual

This manual explains the procedures for transmitting images and using Internet functions.



Sending and receiving data using the camera and a PC

Connecting to a Personal Computer Operation Manual (this manual)

This manual explains the procedures for connecting the camera to a PC, transmitting images from the camera to the PC and operating the camera from the PC.



A useful guide for carrying around with you

Simple Operation Guide

This guide contains a simple explanation of the most frequently used procedures, including shooting, playback and transmitting.



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Using a Personal Computer

The range of available applications can be greatly increased by connecting the camera to a PC.

What You Can Do Using a PC

By connecting the camera to a PC, you can take advantage of the following functions.

■ Using the Camera Control Functions from the Browser

By accessing the camera's homepage from the PC Web browser, you can use the following functions.

● Viewing and Saving Images

This function enables you to view images recorded in the camera's storage memory (internal memory, CF card or PC card) on the PC screen. You can view the images in a thumbnail display or in their actual size. Simple procedures also enable you to save a displayed image (or voice memo or motion picture) as a file on the external disk of the PC.

● Recording Images While Controlling the Camera from the PC

You can control the camera from the PC to record still images, text files, motion pictures and voice memos.

● Setting the Camera from the Large Screen

You can make the various camera settings, such as Address Book and Dial-Up settings, using the large screen of the PC. You can also make a backup file of all the camera settings as a PC file.

- **See** • To use this function, after installing the software and connecting the camera according to the instructions in the latter half of the chapter, refer to Chapter 2 "Viewing Images on a PC", Chapter 3 "Recording Images with the Camera" and Chapter 4 "Changing the Camera Settings".

■ Using the Image Capture Guide List Tool Kit

If you install the Image Capture Guide List Tool Kit, you can create a capture guide list based on a Microsoft Excel or Microsoft Word table or document and transfer it to the camera using the extended functions. After shooting the images with the camera according to the guide list, open the original table or document again and the images will be incorporated.

The Image Capture Guide List Tool Kit can only be used on a PC running Windows.

- **See** • To use the Image Capture Guide List Tool Kit, after installing the software and connecting the camera according to the instructions in the latter half of this chapter, refer to Chapter 5 “Using JOB Navi. Image Capture Guide List”.

■ Using the RDC-i700 Explorer Plug-In / RDC-7/i700 Mounter

The RDC-i700 Explorer Plug-In (Windows) / RDC-7/i700 Mounter (Macintosh) are extended functions for copying images stored in the camera onto the hard disk of the PC, or copying image files or setting files created on the PC in the camera.

Functions such as making a backup file of all the camera settings on the PC and sending images created on the PC to the camera as signature files, can also be added.

- **See** • To use the RDC-i700 Explorer Plug-In / RDC-7/i700 Mounter functions, after installing the software and connecting the camera according to the instructions in the latter half of this chapter, refer to Chapter 6 “Using the Extension Functions”.

■ Using the TWAIN Function

If you install a TWAIN driver for this camera, you can call up the images recorded in the camera’s storage memory (internal memory, CF card or PC card) directly from the graphic application software compatible with TWAIN onto the screen.

- **See** • To use the TWAIN function, after installing the software and connecting the camera according to the instructions in the latter half of this chapter, refer to Chapter 6 “Using the Extension Functions”.

■ Setting the PC for Direct Upload

To use the [DIRECT UPLOAD] function to send images directly to a specific PC from outside the company, the PC must be set to receive the images. This section explains the settings to be made.

- **See** • To set the receiving PC, after installing the software and connecting the camera according to the instructions in the latter half of this chapter, refer to Chapter 7 “Setting the Receiving PC for Direct Upload”.

PC Environment

To connect the camera to a PC, the PC must meet the following conditions.

■ For a PC running Windows

One of the following Windows programs must be installed.

Microsoft Windows® 95

Microsoft Windows® 98

Microsoft Windows® 98 Second Edition

Microsoft Windows® NT4.0

Microsoft Windows® 2000

CPU : Pentium or later

Memory :

Windows 95 : 32 MB or more (recommended 64 MB or more)

Windows 98 : 32 MB or more (recommended 96 MB or more)

Windows NT4.0 : 32 MB or more (recommended 96 MB or more)

Windows 2000 : 128 MB or more (recommended 256 MB or more)

USB port and Windows 98/2000:

When you use the USB cable, you need a computer which is factory equipped with the USB port and is preinstalled with Windows 98 or Windows 2000.

Hard disk space : 6 MB or more



- To access the camera from the Web browser, Internet Explorer, Netscape Communicator or other Web browser must be installed.
- To use the TWAIN function, application software compatible with TWAIN must be installed.
- To use the Image Capture Guide List Tool Kit, Microsoft Office 97 (Microsoft Excel, Microsoft Word) or a later version must be installed.
- The explanations in this manual are based on Windows 98. The displays may differ slightly depending on the Windows version.
- You cannot use a computer running Windows 95 as a receiving computer for Direct Upload.
- The display may differ depending on the kind or version of the browser.

■ For Macintosh

- If you use the USB cable to connect the camera to a Macintosh equipped with a standard USB port, a MacOS 8.6 operating system or later version must be installed.
- If you use the serial cable to connect the camera, a MacOS 8.1 operating system or later version must be installed.
- CPU : PowerPC
- Memory : 32 MB or more
- The USB cable cannot be used with a MacOS X operating system.
- Hard disk space : 6 MB or more

Note

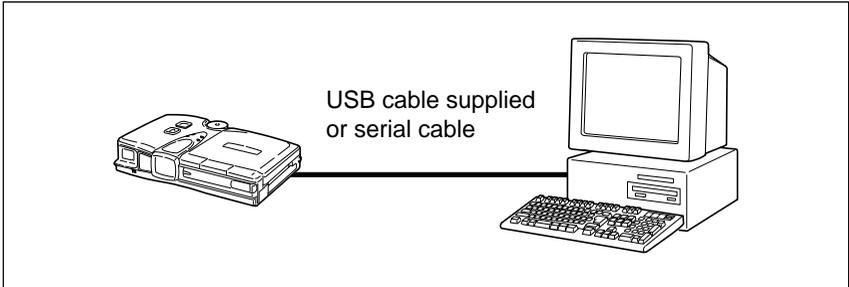
- To access the camera from the Web browser, Internet Explorer, Netscape Communicator or other Web browser must be installed.
- To use the TWAIN function, application software compatible with TWAIN is required.
- If the Mac operating system is earlier than OS9, Apple Remote Access (ARA) is required to set the PC for Direct Upload.
- The explanations in this manual are based on OS9. The displays may differ slightly depending on the OS version.
- The display may differ depending on the kind or version of the browser.

Connecting Methods

The camera can be connected to the PC by one of the following methods. Decide which method you will use. (Connect the camera after the software has been installed.)

■ Connecting the Camera Directly to the PC

This method is for connecting the camera and the PC on a one-to-one basis.



● By USB Cable

If the PC has a USB port, you can connect the camera to the PC easily using the USB cable supplied with the camera.

● By Serial Cable

If the PC has no USB port, connect the camera to the PC using the serial cable.



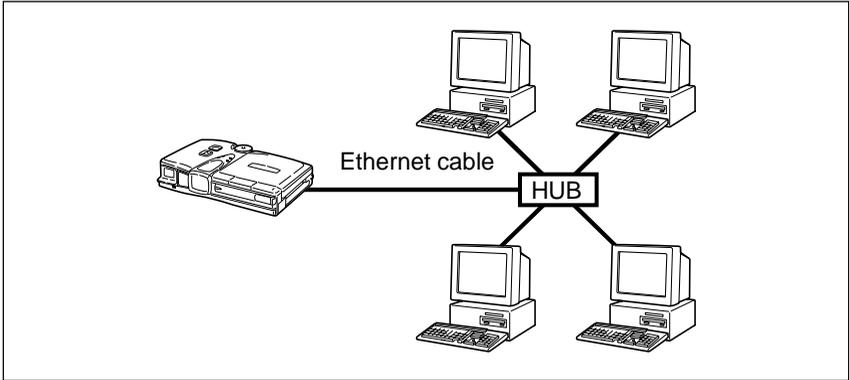
- If you use the serial cable to connect the camera to the PC, the data will take longer to transmit than when connected by the USB cable or LAN. If possible, you are therefore recommended to use the USB cable or LAN.



- The serial cable used for the serial connection is a special cable for this camera. To obtain this cable (and the conversion cable for the Macintosh serial port), inquire at your nearest dealer.

■ Connecting the Camera to a Network

You can connect the camera to an existing network (LAN by Ethernet, etc.) using the recommended LAN PC card. This method is useful when using the camera on several PCs or when using several cameras.



Installing the USB Driver

This section explains how to install the software for connecting the camera to the PC by USB cable.

For Windows, follow these instructions only if connecting the camera to the PC by USB cable. If connecting by serial cable or LAN, this procedure is not necessary.

For Macintosh, follow these instructions if connecting the camera to the PC by USB or serial cable. If connecting by LAN, this procedure is not necessary.



- Do not connect the camera to the PC until the software has been installed, otherwise installation will not proceed smoothly.
- When you have established a connection, click [Cancel] on a plug & play window that appears and remove the USB cable.

For Windows

If you are using Windows, install the USB driver as follows.

1 Turn the PC on.

When Windows is up and running, proceed to the next step.

2 Insert the CD-ROM provided in the CD-ROM drive of the PC.

3 Double-click on [My Computer] and then double-click on the CD-ROM. Next double-click on the [USB_Drvs] folder.

4 If using Windows 98, double-click on [Win98] and then double-click on [Setup.exe].

If using Windows 2000, double-click on the [Win2000] folder and then double-click on [Setup.exe].



Setup.exe

Installation of the software for connecting the camera by USB cable will start. Follow the instructions displayed on the screen. When installation is completed, proceed to the next step.

- **Note** Updated information on installation is provided in the [Readme] file in the [Win98] and [Win2000] folders. If necessary, refer to this information.
- When you connect/remove the USB cable or cancel installation before installing the USB driver, the cable may be recognized as an unknown device for a PC. Refer to page 169 "Troubleshooting" for troubleshooting.

For Macintosh

If you are using a Macintosh, install the USB driver as follows.

① Turn the PC on.

When the Macintosh is up and running, proceed to the next step.

② Insert the CD-ROM provided in the CD-ROM drive of the PC.

③ Double-click on the CD-ROM. Next double-click on the [Usb driver] folder, and then double-click on [RDC-i700 USB / Serial Inst].



RDC-i700 USB_Serial Inst

Installation of the software for connecting the camera to the PC by USB cable will start. Follow the instructions displayed on the screen. When installation is finished, proceed to the next step.

- **Note** Updated information on installation is given in the [Readme] file. If necessary, refer to this information.

Installing the Application Software

This section explains how to install the various application software for using the camera.

For Windows

Install the application software for Windows.

■ Installing RDC-i700 Explorer Plug-In

- 1 Check that the PC is turned on.
- 2 Check that the CD-ROM supplied is inserted in the CD-ROM of the PC.
- 3 Double-click on [My Computer] and then double-click on the CD-ROM. Next, double-click on the [Explorer_Plug-In] folder and double-click on the [Disk1] folder.
- 4 Double-click on [Setup.exe].



Setup.exe

Installation of the RDC-i700 Explorer Plug-In software will start. Follow the instructions displayed on the screen.



- When you have finished installation shown above, the software “RDC-i700 USB/ Serial Process” will be launched automatically everytime Windows runs and the corresponding icon will be displayed on the task bar. When you have exited this software in case of connecting with a USB cable or serial cable, take note that the communication between the camera and PC will not be established.



- If you choose custom installation, you can select and install Explorer Plug-In, Direct Upload, Signature transfer, TWAIN Driver, etc. individually. With standard installation, all the application software is installed.

■ Installing QuickTime

- Note**
- QuickTime is software for viewing a motion picture recorded with the camera.
 - If QuickTime 4 has already been installed on the PC, this procedure is not necessary.

- 1 Check that the PC has been turned on.
- 2 Check that the CD-ROM supplied is inserted in the CD-ROM drive of the PC.
- 3 Double-click on [My Computer] and then double-click on the CD-ROM. Next, double click on the [QuickTime4] folder.
- 4 Double-click on [QuickTime Installer.exe].



Installation of the QuickTime software will start. Follow the instructions displayed on the screen.

■ Installing the Image Capture Guide List Tool Kit

- 1 Check that the PC is turned on.
- 2 Check that the CD-ROM supplied is inserted in the CD-ROM of the PC.
- 3 Double-click on [My Computer] and then double-click on the CD-ROM. Next, double-click on the [Image_Capture_Guide] folder.
- 4 Double-click on [Setup.exe].



The Image Capture Guide List Tool Kit installer will start up. Follow the instructions displayed on the screen and install both the Excel and Word Image Capture Guide List Tool Kits.

 • You can choose whichever kit you need.

For Macintosh

This section explains how to install the application software for Macintosh.

■ Installing the RDC-7/i700 Mounter

- ① Check that the PC is turned on.
- ② Check that the CD-ROM supplied is inserted in the CD-ROM drive of the PC.
- ③ Double-click on the CD-ROM, then double click on [RDC-7/i700 Mounter Inst].



Installation of the RDC-7/i700 Mounter software will start. Follow the instructions displayed on the screen.

■ Installing the TWAIN Driver

- ① Check that the PC is turned on.
- ② Check that the CD-ROM supplied is inserted in the CD-ROM drive of the PC.
- ③ Double-click on the CD-ROM, then double-click on [RDC-i700 TWAIN Inst].



Installation of the TWAIN driver will start. Follow the instructions displayed on the screen.

■ Installing QuickTime



- QuickTime is a software required for viewing a motion picture file with a camera.
- This procedure is not required if QuickTime 4 has already been installed on your Macintosh.

- ① Check that the PC is turned on.
- ② Check that the CD-ROM supplied is inserted in the CD-ROM drive of the PC.
- ③ Double-click on the CD-ROM, then double-click on the [QuickTime] folder.
- ④ Double-click on [QuickTime Installer].



QuickTime Installer

Installation of QuickTime will start. Follow the instructions displayed on the screen.

Connecting the Camera to a PC

This section explains how to connect the camera to a PC.

Connecting the Camera Directly to a PC

This method is for connecting the camera directly to a PC.

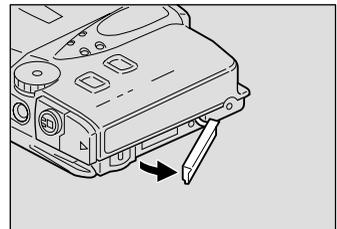


- The flash lamp (red) on the camera blinks while data is being transmitted. Do not disconnect the cable or turn the camera off while data is being transmitted between the camera and the PC as the camera or PC may be adversely affected.
- After connecting the camera to a PC, you are advised to use an AC adapter when using the camera and avoid powering the camera by the battery. Particularly if you are handling no-compression files, motion pictures or other large files, transmission takes a long time. If the power fails during transmission, the camera or PC may be adversely affected.
- Connecting the camera via the USB hub may result in the camera not functioning properly. If possible, you are advised not to use the USB hub.
- The camera will not operate on power supplied from the USB port.

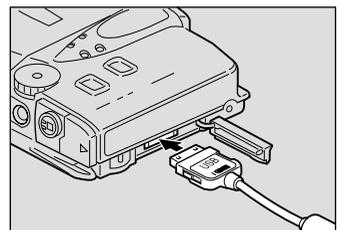
■ Connecting the Camera by USB Cable (For Windows)

You can connect the camera to a PC running Windows using the USB cable supplied with the camera.

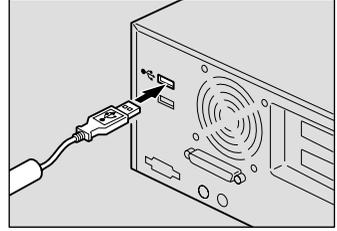
- 1 **Open the terminal cover on the right side of the camera.**



- 2 **Insert the flat connector on one end of the USB cable into the USB/AUX terminal of the camera with the seal facing up.**



- 3 Insert the connector on the other end of the cable into the USB port of the PC.



- 4 Turn the camera on.

The PC will automatically detect the equipment which has been connected and operate accordingly. If a message is displayed, follow the instructions on the screen.

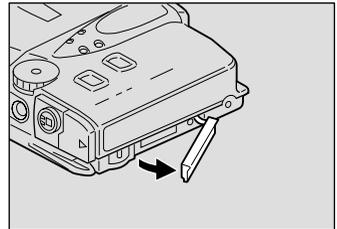
USB connection is completed.

From this point you can connect and disconnect the camera and PC at any time simply by inserting or removing the USB cable. The cable can be inserted or removed with the power turned on.

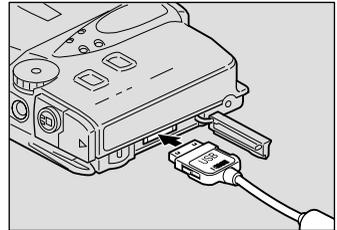
■ Connecting the Camera by USB Cable (For Macintosh)

You can connect the camera to a Macintosh using the USB cable supplied with the camera.

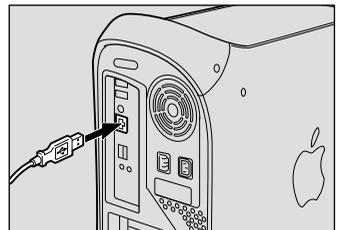
- 1 Open the terminal cover on the right side of the camera.



- 2 Insert the flat connector on one end of the USB cable supplied into the USB/AUX terminal of the camera with the seal facing up.



- 3 Insert the connector on the other end of the cable into the USB port of the PC.



④ Turn the camera on.

The PC will automatically detect the equipment which has been connected and operate accordingly. If a message is displayed, follow the instructions on the screen.

Connection by USB cable is completed.

From this point you can connect or disconnect the camera and PC at any time simply by inserting or removing the USB cable.

■ Connecting the Camera by Serial Cable (For Windows)

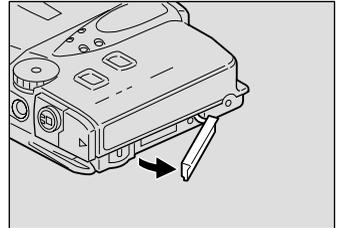
You can connect the camera to a PC running Windows using a special serial cable.



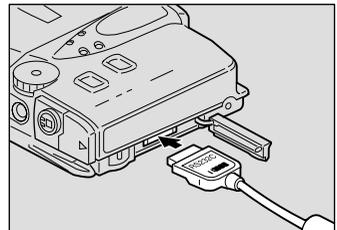
- Make sure that both the PC and the camera are turned off before connecting or disconnecting the serial cable.

① Check that the PC and the camera are turned off.

② Open the terminal cover on the right side of the camera.

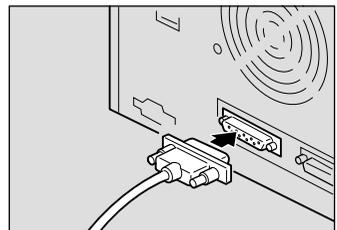


③ Insert the flat connector on one end of the serial cable into the USB/AUX terminal of the camera with the seal facing up.



④ Insert the connector on the other end of the cable into the serial terminal of the PC.

Connection by serial cable is completed.



■ Connecting to the Serial Port (For Macintosh)

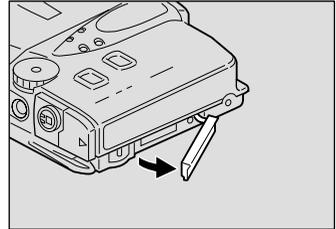
You can connect the camera to a Macintosh using a serial cable for this camera.



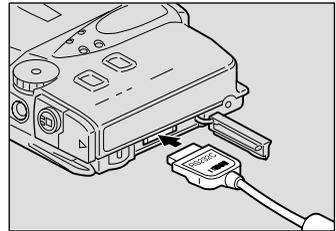
- Make sure that both the PC and the camera are turned off before connecting or disconnecting the serial cable.

1 Check that the PC and the camera are turned off.

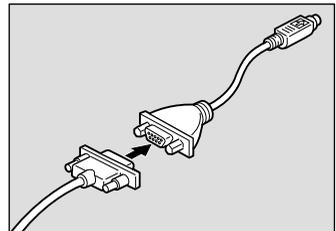
2 Open the terminal cover on the right side of the camera.



3 Insert the flat connector on one end of the serial cable into the USB/AUX terminal of the camera with the seal facing up.

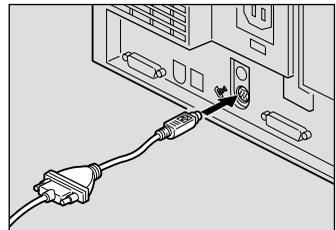


4 Insert the connector on the other end into the connector of the Macintosh conversion cable.



5 Insert the connector of the Macintosh conversion cable into the serial terminal (modem port or printer port) of the PC.

Connection by serial cable is now completed.



Connecting the Camera to a Network

You can connect the camera to an existing internal network or household network (LAN using Ethernet, etc.).



- This camera is compatible with a 10BASE-T LAN (Ethernet).
- To connect the camera to a LAN, it is necessary to purchase a LAN connection PC card. For details of equipment checked or recommended by Ricoh, refer to the separate list of Qualified Products. Updated information can be found in Ricoh's homepage on the Internet (noted at end of manual).
- Do not remove the cable or turn the camera off while data is being transmitted between the camera and the PC as the camera or PC may be adversely affected. (When the camera is connected to LAN, the flash lamp (red) will not flash during data communication.)
- When you use the camera by connecting it to the PC, you are advised to use an AC adapter and avoid powering the camera by the battery. Particularly if you are handling no-compression files, motion pictures or other large files, transmission will take a long time. If the power fails during transmission, the camera or the PC may be adversely affected.
- Do not touch the cable terminal of the LAN connection PC card.
- Do not connect the camera to a LAN and a USB (or serial) cable simultaneously. The camera or PC may be adversely affected.

■ Requirements

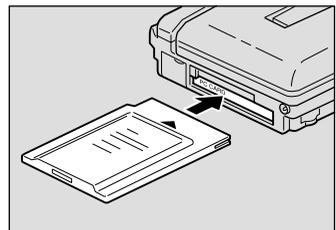
- LAN connection PC card suitable for the network to which the camera will be connected
- Connection cable



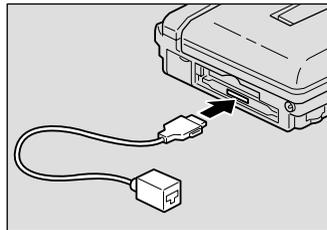
- If you use this method to connect the camera to a PC, the PC card slot will be used for the LAN connection PC card. You will therefore be unable to view images recorded on the PC card or send them to the PC. If you use this method, record the images in the internal memory or on a CF card.

■ Connecting Procedure

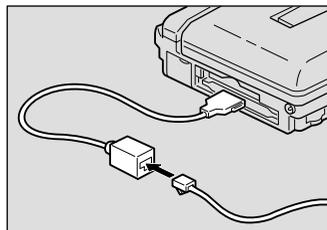
- ① Check that the PC and the camera are turned off.
- ② Insert the LAN connection PC card into the PC card slot of the camera.



- 3 Insert the connection cable into the LAN connection PC card.

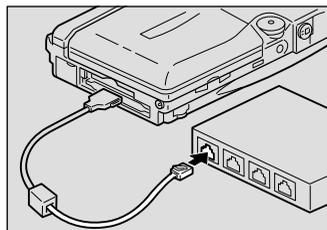


- 4 Insert the connector on the other end of the connection cable into the connector of the LAN cable.



- 5 Insert the connector on the other end of the LAN cable into the free terminal of the LAN hub.

Connection of the camera to the LAN is now completed.



Making the Camera Settings

Normally, when the camera is connected to a PC, you can immediately access the camera using the Web browser or the PC. This is because various general settings have been made for the factory default settings.

However, depending on the PC or LAN used, operation may not proceed smoothly with the settings as they are.

In this case, refer to the appendix “Camera Settings When Connected to a PC” (p.158) and change the settings to suit the PC or LAN used. (As a certain amount of knowledge about the LAN is required, you are recommended to consult the person in charge of the network before making any changes.)



- If you connect the camera to a PC using a serial cable, the resulting communication may be unstable depending on the compatibility of the PC and the camera. In this case, set a low setting for the [CONNECT SPEED] in the appendix, “Camera Settings When Connected to a PC” (P.158).

COM Port Settings for Windows

The USB driver for Windows treats the camera as equipment that uses the COM port virtually.

If the COM port conflicts with other equipment, the camera may fail to be detected even if the driver has been correctly installed.

In this case, change the COM port used by the following procedure.

- 1 Connect the camera to the PC using the USB cable and turn the camera on.**
- 2 Start the device manager.**

Select [Settings] → [Control Panel] from the [Start] button. Double click on the [System] icon in the window that opens. Select the [Device Manager] tab from the [System Properties] dialog box, and open [Ports (COM/LPT)] from the list.
- 3 Set [RICOH Camera Port] of [Ports (COM/LPT)] and click on [Properties].**
- 4 Change the [Port Select] screen in [RDC-i700 Properties] to a free COM number (COM 5~9).**

An [*] will be attached to the port used.