



RDC-7

Windows XP

Installation Guide

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2. Important notes

These instructions will guide you through the process of installing the RDC-7 USB driver and utility software on your Windows XP computer. Be sure to read, understand, and observe all precautions and requirements prior to attempting these procedures. If you feel you need assistance, please contact our customer support network at the URL listed in the **Customer support** section below.

- Operating System: Windows XP (operation not guaranteed with other operating systems)
- Memory: 128MB or more (256MB or more is recommended)
- Connection cable: Use the dedicated cable included in the package
- Retrofit USB ports added by using an expansion feature (such as PCI bus) cannot be supported.
- Driver may fail to operate correctly when used with a USB hub or other USB devices.

3. Customer support

The following URLs may be useful if you need support during the installation process.

Download Windows XP-compatible software

http://www.ricoh.co.jp/r_dc/dc/notices/xp-dl.html

Contact Ricoh's customer support team

http://www.ricoh.co.jp/r_dc/dc/support/inquiry.html

4. Installing the USB driver

Caution: The authority to install the driver to Windows XP is limited to users with administrator accounts. Users who cannot log on as administrators will not be able to install this driver.

I. Prior to installation

- (1) Download the latest RDC-7 software at http://www.ricoh.co.jp/r_dc/dc/notices/xp-dl.html. Be sure to note the location where you save the downloaded file(s). You will need that information during the installation. Also, be sure to download these files to your computer's hard drive.
- (2) Save any important data you may be using and then quit all running applications.
- (3) Disconnect any other USB or Plug & Play devices.

II. Installation procedure

Caution: Do not disconnect the USB cable or switch off the camera or computer while installation is in progress.

- (1) Switch on the computer and start Windows.
- (2) Connect the computer and camera with the USB cable provided.
- (3) Switch on the RDC-7 digital camera.
- (4) When the computer recognizes the RDC-7, the Found New Hardware Wizard appears. (See Figure 1) Select "Install from a list or specific location (Advanced)," then click **Next**.



Figure 1: Found New Hardware Wizard

- (5) The next window will ask where you want to search. (See Figure 2.) Confirm that the “Search for the best driver in these locations” option is selected. Select “Include this location in the search” and browse to the folder where you saved the downloaded file(s). (Make sure that the “Search removable media...” option is not selected.) Once you have selected the appropriate folder, click **Next**.
- (6) At this point, Windows will display a warning message (See Figure 3.), but this warning can safely be ignored. Click **Continue Anyway** to continue.
- (7) The wizard will install the driver and notify you when finished. (See Figure 4.) Click **Finish** to close the wizard.

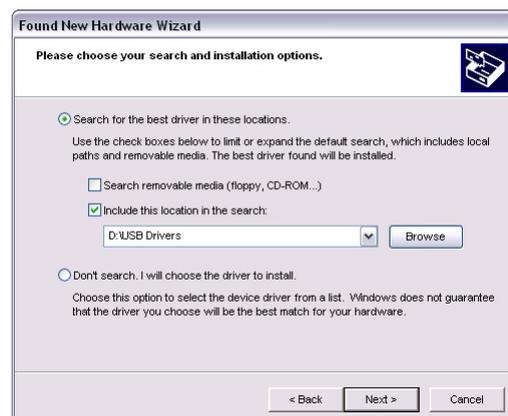


Figure 2: Specify driver location



Figure 3: Warning message

*This warning from Windows can be ignored. Click **Continue Anyway** to proceed with the installation.*

*This screen will appear when Windows completes the installation. Click **Finish** to close this window.*



Figure 4: Installation complete

5. Installing the utility software

I. Prior to installation

(1) Save any important data you may be using and then quit all running applications.

II. Installation procedure

- (1) Navigate your way to the folder where the downloaded utility files are saved. Locate the **disk1** folder and open it.
- (2) Click on **setup.exe** to start the setup process. Windows will first warn you to close all other programs before installing the software, then ask where you want to install the files. Click **Next** in both times to install the software in the default directory.
- (3) Click **Finish** to complete the installation.

6. Using the utility software

I. Explanation of the buttons (See Figure 5.)

- Camera Type: Select RDC-7.
- Transmission speed: Set the speed (serial connections only).
- COM port: Select the USB port.
- Copy from Camera: Copy files to the computer.
- Copy to Camera: Copy files to the camera.
- End: Exit the utility application.

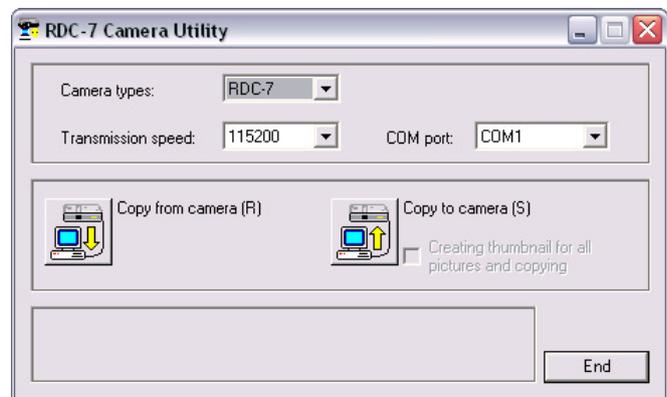


Figure 5: RDC-7 Camera Utility

II. Copy from Camera window (See Figure 6.)

Pressing the “Copy from Camera” button opens the file selection panel.

File selection panel buttons

- Displaying thumbnails: Check to display thumbnails.
- CARD: Select files from the camera’s memory card.
- MEMORY: Select files from the camera’s internal memory.
- Select all: Select all the files in the selected memory.
- Select: Select the file displayed on the camera LCD monitor.
- Release all: Cancels all file selections.
- Select range: Select a range of files.
- View and Select: Select files from the list of thumbnails.
- Specification of file No.: Specify the files to display by number.
- Copying selected pictures: Copy selected files to computer.
- Memo entry in screen: Add comments to the displayed file.
- End: Exit the RDC-7 utility software.



Figure 6: File selection panel

III. Downloading files from the camera to the computer

- (1) Select the memory in which the file you want to download exists from Memory (internal memory) or CARD (SmartMedia™ card).
- (2) While viewing the monitor on the camera, move forward or backward using the buttons to display the file to be downloaded, and then press the **Select** button to select.
- (3) Press the **View and Select** button to display the list and allow selection of the file to be downloaded using the mouse.
- (4) Pressing the **Copying selected pictures** button starts downloading the files.

IV. Uploading files from the computer to the camera

Press the **Copy to camera** button to open the file selection screen. Select the format of the files to be copied from among EXIF (*.JPG), J6I (*.J6I), Audio (*.WAV), and Movie (*.AVI) and navigate your way to the folder where the files are stored. Press **Start copying** to start the upload process.

7. Installing the TWAIN driver

This TWAIN source enables applications that run on Windows XP to read image data directly from the Ricoh RDC-7 digital camera and open DSC files and EXIF files stored on the disk.

Note: To connect via USB, install the “RDC-7 USB Driver” beforehand.

This driver was checked for operation on the following software (note that this does not guarantee operation).

• Adobe Photoshop 5.5

I. Installation procedure

- (1) Select Add New Programs from the Add or Remove Programs option in the Control Panel. Click on the **CD or Floppy** button. (Although you may not have stored the driver on a CD or floppy disk, this button will lead you to a screen that will allow you to browse to the downloaded file's actual location.) Ignore the next screen's instructions to “insert the product's first installation floppy disk or CD-ROM” (unless you have actually stored the downloaded driver in such a location) and click **Next**.
- (2) The next window will allow you to browse to the location where you have stored the driver. After locating the TWAIN folder, open the **disk1** folder inside and click on **setup.exe**. (Select the file and click on the **Open** button if your system does not automatically return to the previous window.)
- (3) Confirm that the path to the setup.exe file appears in the Browse field, then click the **Finish** button to start the setup program.
- (4) When the setup program starts, click **Next**. The setup program will install the driver and notify you when it is done. Click **Yes** if you would like to read the driver's README file or **No** if you would not.
- (5) Click the **Close** button to close the Add or Remove Programs window.

II. How to use TWAIN

- (1) Selecting TWAIN from an application

Connect the computer and RDC-7 with the USB cable or serial cable. (Note that this must be done *before* the application is started.)

Note: When connected via USB, the camera remains in standby mode regardless of the position of the mode dial on the camera. To connect via serial (RS232-C), turn the mode dial on the camera to the SET position and specify Serial PC connection to set the camera in the connection standby mode.

Select RICOH DIGITAL CAMERA RDC-7 from the TWAIN compatible device menu in the application.

(2) Starting TWAIN from within an application

Select Input from TWAIN compatible device in the application and specify the "RICOH Digital Camera" TWAIN panel.

(3) Downloading images directly from the camera.

- a) Confirm the following settings in the option panel of the TWAIN acquisition window. (See Figure 7-1.)
- CAMERA: RDC-7
 - PORT: USB (Unless you are using serial transfer, in which case you should select COM1 or COM2)
 - SPEED: Select as necessary for your connection. (USB is set automatically)

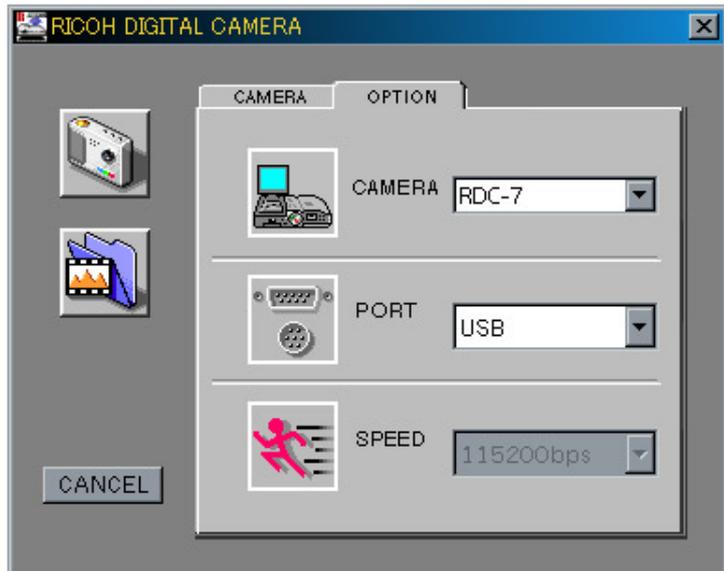


Figure 7: TWAIN selection panel

- b) After confirming the settings, click the camera icon to display the camera panel.
- c) Select the memory in which the images are stored ("Card" refers to the SmartMedia™ card and "memory" refers to the internal memory.)
- d) Select the image(s) to be downloaded.
- e) Click **OK** to download the selected images.

Depending on the application, a format selection dialog box may be displayed. File formats that can be specified are EXIF (*.JPG, *.TIF) or still pictures that comply with DSC (*.J61).

(5) Downloading images to a drive

- a) Click the folder icon to display the thumbnail screen.
- b) Specify the desired location from the folder selection or drive selection dialog box.
- c) Select a file format (EXIF or DSC) for the images to be downloaded. The images appear as thumbnails.
- d) Select the image to be downloaded using the mouse, and press the OK button.

3. Precautions

- (1) To use the RDC-7 via USB, the USB driver must be installed beforehand.
- (2) For downloading using TWAIN, only EXIF- or DSC-compliant still pictures may be selected. (Audio files and movie files cannot be selected.)
- (3) If multiple images are selected, TWAIN processing may stop after a single image file has been transferred depending on the application.

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8. Windows XP usage restrictions and workarounds

Software/Function Restriction

Explorer Plug-In When trying to open a file stored on the camera from within an application, an error message comes up indicating that there is no such file.

Workaround

Using Explorer or from My Computer, copy the files from the camera to your hard drive, then use the application to open the copy.

Explorer Plug-In When copying files from the camera to my hard drive with Explorer or from My Computer, the transmission display does not appear.

It doesn't appear in Windows XP. After checking to make sure the files were copied, continue with your next task.

9. Removing RDC-7 Software and Drivers

This section will help you uninstall the RDC-7 utility software and drivers from your Windows XP system.

I. Uninstalling the utility software

(1) Click on the **Add or Remove Programs** icon in the Control Panel.

(2) Select **RDC-7 Camera Utility** from the list and click **Change/Remove**. (See Figure 8)

(3) When the unInstallShield wizard starts, it will ask you if you want to remove shared files. Click **No to All** to leave the files in place, then click **OK** when the wizard finishes. (See Figure 9)

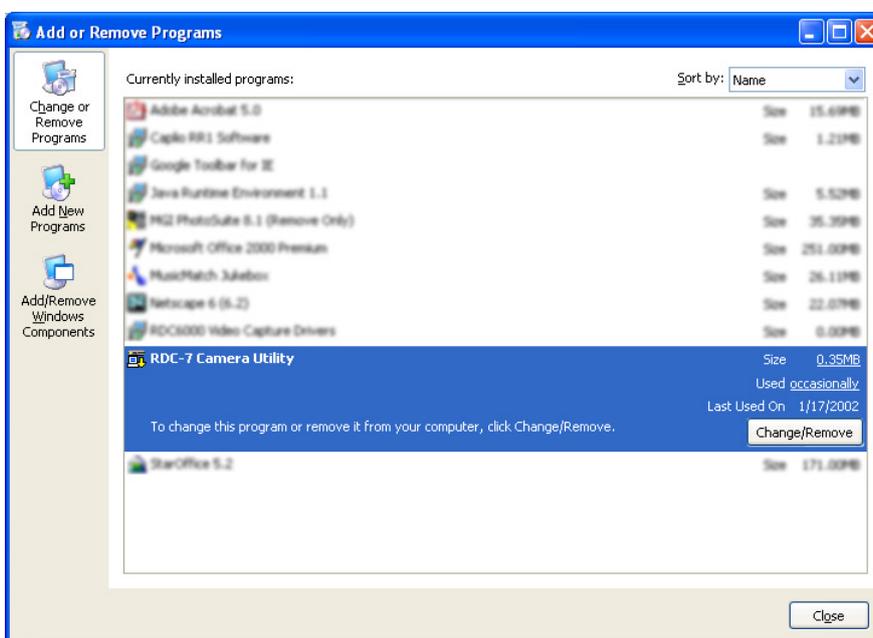


Figure 8: Remove RDC-7 Camera Utility

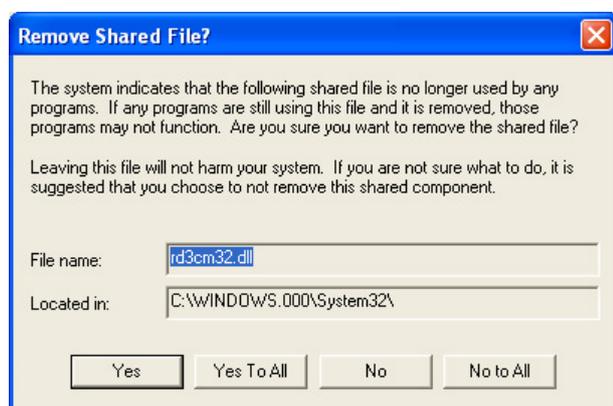


Figure 9: Remove Shared File window

II. Uninstalling the USB driver

Note: The RDC-7 must be connected to the PC and turned on for uninstallation to proceed.

- (1) Click the **System** icon in the Control Panel and select the **Hardware** tab from the System Properties window that appears.
- (2) Click the **Device Manager** button.
- (3) In the Device Manager, click the plus sign next to the **Ports (COM & LPT)** icon.
- (4) Right-click on the **Ricoh Camera Port** icon and select **Uninstall** from the context menu. (See Figure 10.)
- (5) Click **OK** in the Confirm Device Removal window.

III. Deleting the TWAIN installation files

To remove the RDC-7 TWAIN driver, please delete the following files from their respective directories. (**Note:** This process can be omitted if there are no other TWAIN-compatible devices installed on your system. If in doubt, please leave these files in place.)

C:\WINDOWS.000
• dc3twain.ini

C:\WINDOWS.000\twain_32\RICOH
• dc7x32.ds

C:\WINDOWS.000\SYSTEM32

• jlfw32.dll	• rdj6x32.dll
• jpcw32.dll	• rdxcm32.dll
• jpdw32.dll	• rdxif32.dll
• rd3cm32.dll	• ridib32e.dll
• rdadp32.dll	• rift32e.dll
• rdavi32.dll	• rired32e.dll
• rdccm32.dll	

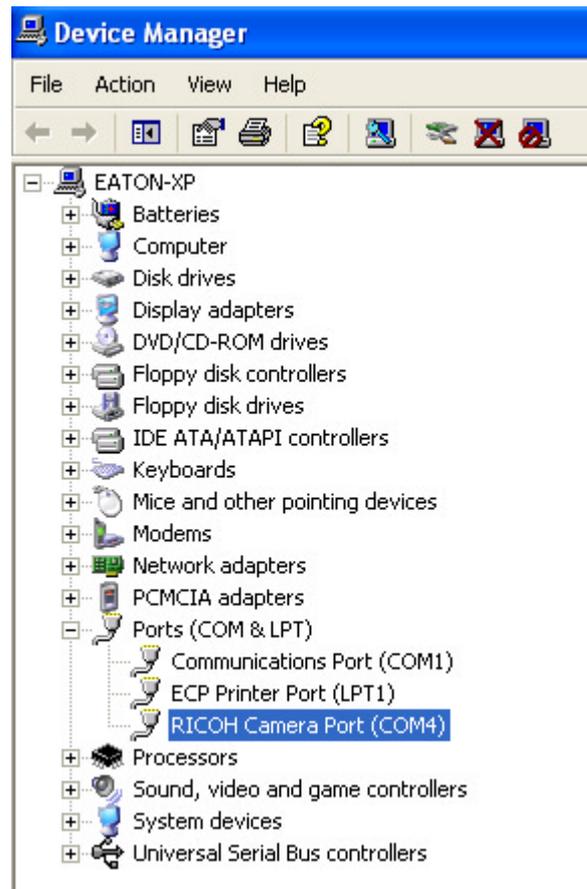


Figure 10: Uninstall the RICOH Camera Port