

SOFTWARE INSTALLATION AND USB CONNECTION GUIDE

LYT0931-001A

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CAUTION:

- Operate this equipment according to the operating procedures described in this manual.
- Use only the provided CD-ROM. Never use any other CD-ROM to run this software.
- Do not attempt to modify this software.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

How to handle a CD-ROM

- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the center hole using a circular motion.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

- You can find the latest information (in English) on the provided software program at our world wide web server at <http://www.jvc-victor.co.jp/english/index-e.html>

Notice for Users

Use of this software is authorized according to the terms of the software license.

When contacting the nearest JVC office or agency in your country about this software (refer to the JVC Worldwide Service Network at <http://www.jvc-victor.co.jp/english/worldmap/index-e.html>), please fill out the following and have the appropriate information ready.

Product Name		
Model		
Problem		
Error Message		
PC	Manufacturer	
	Model	<input type="checkbox"/> Desktop <input type="checkbox"/> Laptop
	CPU	
	OS	
	Memory	MB
	Available Hard Disk Space	MB

Please note that it may take some time to respond to your questions, depending on their subject matter.

JVC cannot answer questions regarding basic operation of your PC, or questions regarding specifications or performance of the OS, other applications or drivers.

Operating Environment

A camcorder can be connected to a PC that satisfies the following requirements.

Windows®

OS	: Windows® 98 (pre-installed), Windows® 98 Second Edition (98SE) (pre-installed), Windows® Millennium Edition (Me) (pre-installed), or Windows® 2000 Professional (pre-installed) (Operation is not guaranteed on a PC that has been upgraded from Windows® 95.)
CPU	: Intel MMX® Pentium®, at least 200 MHz
RAM	: At least 64 MB recommended
Free hard disk space	: At least 10 MB for installation, at least 500 MB recommended
Connector	: USB connector
Display	: Must be capable of displaying 800 x 600 dots with 16-bit color

■ For ImageMixer

In addition to the requirements above, the following requirements must be satisfied to use ImageMixer.

OS	: The same as above requirements. However, Windows® 98 cannot be used when you connect a camcorder to the PC with a USB cable. Windows® 98, Windows® 98SE cannot be used when you connect a camcorder to the PC with a IEEE1394 (DV) cable.
CPU	: For capturing video via a USB cable or IEEE1394 (DV) cable, Intel Pentium III®, at least 500 MHz, at least 800 MHz recommended
Free hard disk space	: At least 250 MB for installation, at least 1 GB recommended
Connector	: IEEE1394 (i.LINK) connector

Macintosh

Hardware	: iMac, iBook, Power MacintoshG3, Power MacG4, Power BookG3 or G4 equipped with a USB connector
OS	: Mac OS 9.0.4 to 9.1
RAM	: At least 64 MB recommended
Free hard disk space	: At least 100 MB for installation, at least 1 GB recommended
Miscellaneous	: QuickTime 4 or later

- The system requirements information above is not a guarantee that the provided software will work on all personal computers meeting those requirements.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Macintosh is a registered trademark of Apple Computer, Inc.
- Other product and company names included in this instruction manual are trademarks and/or registered trademarks of their respective holders.

Software Installation (Windows®)

Follow the procedure described below to install the software.

Quit any other software you are using. (Check that there are no other application icons on the status bar.)

1 Load the provided CD-ROM in the PC.

After a moment, the [Setup] screen appears.

- If the [Setup] screen does not appear, double-click [My Computer] and then double-click the CD-ROM icon.

From the [Setup] screen, you can install the following softwares.

USB Mass Storage Class driver

This driver allows your PC to read and write memory cards in the camcorder.

NOTE:

Be sure not to connect the USB cable between the camcorder and the PC before installing the driver.

USB Stream driver

This driver allows you to record camcorder's audio and video output on your PC's hard disk instead of camcorder's video tape. You can also use the camcorder to conduct a video conference over the Internet.

NOTE:

Be sure not to connect the USB cable between the camcorder and the PC before installing the driver.

PIXELA ImageMixer 1.0

This application is used to capture still images and video clips from a camcorder through a USB connector or IEEE1394 (i.LINK) connector, and is also used to manage and edit the still images and video clips.

Digital Photo Navigator 1.0

This application is used to capture still images and convert them into a variety of formats.

G.726 decoder

This is an audio decoder for video clips created by the camcorder (extension ".asf").

Adobe® Acrobat® Reader 5.0

This application is used to read PDF files.

2 Click [Install] on the right side of the desired software.

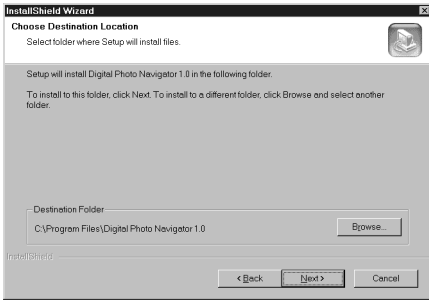
(The following is the example of Digital Photo Navigator.)

[License Agreement] screen appears.

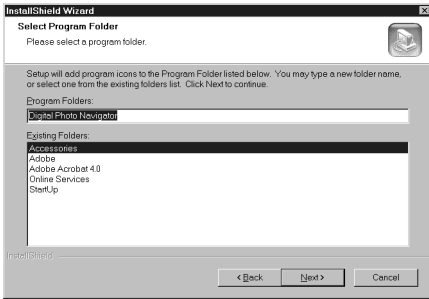


Click [Yes].

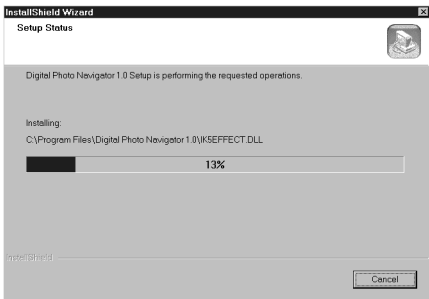
Then, [Choose Destination Location] screen appears.



Click [Next].
Next, [Select Program Folder] screen appears.



Click [Next].
[Setup Status] screen appears. Wait for a moment until the installation is finished.



When the installation is finished, [Digital Photo Navigator Setup] screen appears and asks you if you want to create the icon on the desktop.

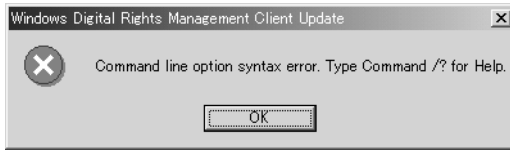


If you need it, click [Yes]. If not, click [No].

- 3** When the message asking whether it is OK to restart the PC appears, click [Yes]. The PC restarts, and after a moment the [Setup] screen from step **1** appears.
- 4** Repeat steps **2** and **3** to install all of the desired software.

When using Windows® 2000

When the error message below appears while installing ImageMixer, click [OK] to complete installation.



NOTES:

- The Digital Photo Navigator and PIXELA ImageMixer instruction manual is included on the CD-ROM in PDF format. Double-click the [JVC] folder and then double-click the [Docs] folder. Open the "Start.pdf" file and click the button of the desired language. Note that Adobe® Acrobat® Reader must be installed to read PDF files.
- For details on how to use **Windows® NetMeeting®** or **iVisit**, refer to "Appendix" in the Digital Photo Navigator instruction manual on the CD-ROM.
- When installing the [PIXELA ImageMixer 1.0], select the desired language in the [Choose Setup Language] screen.
- If you perform installation of a software that is already installed, uninstallation will start. In this case, perform the installation again after uninstallation is finished.
- When you install USB Stream driver with Windows® 2000, a warning message dialog box on digital signature may appear. In this case, click [OK] to continue installation because this problem has no effect on the use of the driver.

Updating [Device Manager] (Windows®)

If the camcorder is connected to the PC with the USB cable before installing [USB Mass Storage Class driver] or [USB Stream driver], the installation might not be performed properly.

In this case, follow the procedure described below to update the [Device Manager] and install [USB Mass Storage Class driver] and [USB Stream driver] properly.

NOTE:

Disconnect any other USB audio devices from PC before performing the following procedure.

Installing [USB Mass Storage Class driver]

- 1 Use the USB cable to connect the camcorder to the PC. (☞ pg. 9)
- 2 Select [Start] – [Settings] – [Control Panel]. Double click the [System] icon.
- 3 **Windows® 98SE/Me:** Select the [Device Manager] tab.
Windows® 2000: Select the [Hardware] tab and click [Device Manager].
- 4 Delete [DV camera] or [JVC] in [Other devices].
- 5 Disconnect the USB cable from the camcorder. Restart the PC.
- 6 Load the provided CD-ROM in the PC. Install [USB Mass Storage Class driver]. (☞ pg. 5)
- 7 Use the USB cable to connect the camcorder to the PC.
Device driver is installed.
- 8 Confirm the [Removable Disk] icon is displayed in [My Computer].

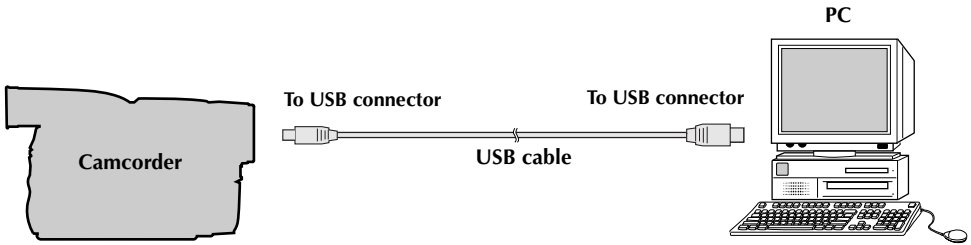
Installing [USB Stream driver]

- 1 Use the USB cable to connect the camcorder to the PC. (☞ pg. 9)
- 2 Select [Start] – [Settings] – [Control Panel]. Double click the [System] icon.
- 3 **Windows® 98SE/Me:** Select the [Device Manager] tab.
Windows® 2000: Select the [Hardware] tab and click [Device Manager].
- 4 Delete [USB Audio devices] in the [Sound, video and game controllers].
 - Delete [DV camera] or [JVC] in [Other devices].
- 5 Disconnect the USB cable from the camcorder. Restart the PC.
- 6 Load the provided CD-ROM in the PC. Install [USB Stream driver]. (☞ pg. 5)
- 7 Use the USB cable to connect the camcorder to the PC.
Device driver is installed.
 - **Windows® 2000:** When a warning message dialog box on digital signature appears, click [OK] to continue installation.
- 8 Confirm the following devices are displayed in [Device Manager] by performing steps 2 – 3.
 - [JVC Web Camera] in [Imaging Devices]
 - [JVC DVCamera USB Microphone] in [Sound, video and game controllers]

Connections (Windows®)

Connecting the USB cable

Connect the USB cable to copy still image and video clip files in a memory card to the PC or to use ImageMixer in capturing video in real time.



1 To assure safety, make sure all units are turned off before making any connections.

2 Use the USB cable to connect the camcorder to the PC.

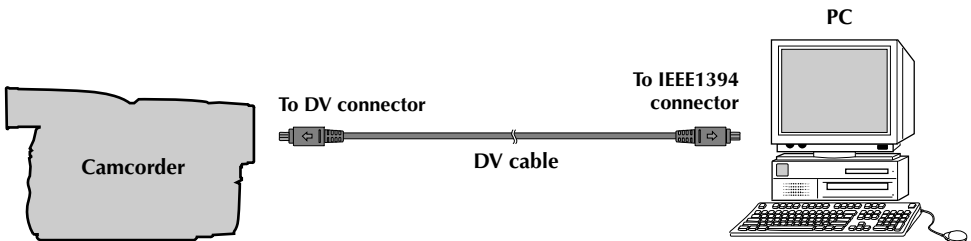
- We recommend that you use the AC Adapter.

NOTES:

- When the USB cable is connected, turning on or off the camcorder or switching the VIDEO/MEMORY mode on the camcorder causes malfunctions of the PC.
- If you connect the camcorder to the PC through a USB hub, compatibility issues between the hub and the PC may result in instability in the operation of the PC. If this happens, connect the camcorder directly to the PC, not through the hub.
- Do not use an extension USB cable.

Connecting the DV cable

Connect the DV cable to use ImageMixer in capturing video from tape.



1 To assure safety, make sure all units are turned off before making any connections.

2 Use the DV cable to connect the camcorder to the IEEE1394 connector on the PC.

- We recommend that you use the AC Adapter.

NOTE:

When the DV cable is connected, turning on or off the camcorder or switching the VIDEO/MEMORY mode on the camcorder causes malfunctions of the PC.

Viewing the Contents of a Memory Card (Windows®)

- 1 Install [USB Mass Storage Class driver]. (☞ pg. 5)
- 2 Connect the camcorder to the PC with a USB cable. (☞ pg. 9)
- 3 Make sure that there is a memory card in the camcorder.
- 4 Set the camcorder to the memory card playback mode.
 - Refer to the camcorder's instruction manual for details. [USB MODE] appears on the camcorder's LCD monitor.

- 5 Double-click the [My Computer] icon on the desktop. The [Removable Disk] icon which represents the memory card in the camcorder appears in the [My Computer] window.

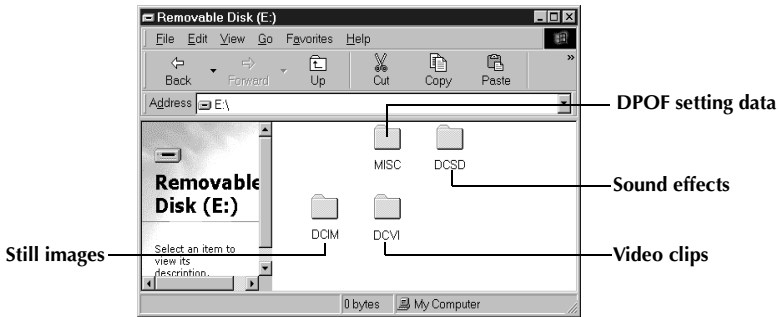


NOTE:

[Removable Disk] icon does not appear if USB Mass Storage Class driver is not installed properly. In this case, refer to "Updating [Device Manager] (Windows®)" (☞ pg. 8).

- 6 Double-click the [Removable Disk] icon.

The following folders are automatically created in the memory card. Different file types are stored in different folders.



Still images (extension ".jpg") : Folders within the [DCIM] folder

Video clips (extension ".asf") : Folders within the [DCVI] folder

Sound effects (extension ".mp3") : [100]VCGR] folder within the [DCSD] folder
• The [DCSD] folder is displayed only when the camcorder is equipped with Digital Sound Effects function and sound effects is stored in the memory card.

DPOF setting data : Folders within the [MISC] folder

NOTES:

- Saving the wrong kinds of files in a memory card or deleting files or folders from a memory card can cause problems with the operation of the camcorder. When it is necessary to delete a file from a memory card, delete it through the camcorder.
- Never disconnect the USB cable while the message [ACCESSING FILES] is displayed on the camcorder's LCD monitor.
- If you are using a brand new memory card, you need to initialize the memory card with the camcorder first. You may not be able to copy files from the memory card to the PC without doing so.

For owners of camcorders equipped with Digital Sound Effect function;

The CD-ROM contains digital sound files (data saved on the provided memory card at the factory). When the memory card has been formatted, follow the step below to save the files on the memory card.

- Copy the "DCSD" folder on the CD-ROM into the root directory (volume) of the memory card.

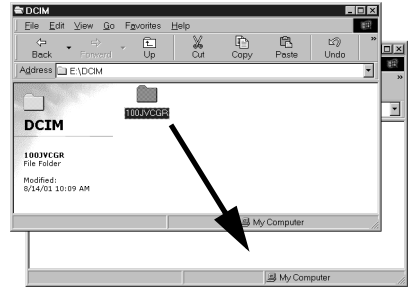
Copying Files to the PC (Windows®)

Still image and video clip files that are stored in a memory card can be copied to the PC and played back on the PC.

- 1 Double-click the [My Computer] icon on the desktop.
If the camcorder is connected to the PC correctly, the [Removable Disk] icon appears.
- 2 Double-click the [Removable Disk] icon.
The folders in the memory card appear.



- 3 Double-click the destination folder.
- 4 Select the folder to be copied, and then drag and drop that folder in the destination folder.
 - To copy still images: Copy the folder within the [DCIM] folder.
 - To copy video clips: Copy the folder within the [DCVI] folder.The message [ACCESSING FILES] appears on the LCD monitor of the camcorder, and the folder is copied from the memory card to the PC.



NOTE:

Never disconnect the USB cable while the message [ACCESSING FILES] is displayed on the camcorder's LCD monitor.

Playing Back Files on the PC (Windows®)

Still images

Use an application that can handle the JPEG file format. To view a still image, double-click the still image file (extension ".jpg").

Video clips (Only for the camcorder equipped with E-Mail Clip Recording function)

Use the Windows Media™ Player (version 6.4 or later). You can download the Windows Media™ Player from the Microsoft web site at:

<http://www.microsoft.com/>

If you cannot play back a video clip file (extension ".asf") that you have opened with the Windows Media™ Player, connect to the Internet and then try opening the file. The software that is needed in order to play back the file will be downloaded automatically, and then the file will be played back.

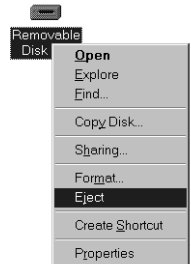
If the video clip plays but without the audio, install the G.726 decoder from the CD-ROM.

Disconnecting the USB Cable (Windows®)

Before loading or unloading memory cards or turning off the PC, first disconnect the USB cable and turn off the camcorder.

When using Windows® 98/98SE

- 1 Confirm that the message [ACCESSING FILES] is not currently displayed on the LCD monitor of the camcorder.
 - If the message [ACCESSING FILES] is currently displayed, wait until it disappears before proceeding.
- 2 Double-click the [My Computer] icon on the desktop.
If the camcorder is connected to the PC correctly, the [Removable Disk] icon appears.
- 3 Right-click the [Removable Disk] icon in the [My Computer] window.
A menu appears.
- 4 Click [Eject] in the menu.
The [Removable Disk] icon disappears.
 - If the icon does not disappear, wait for a while, and then proceed to step 5.
- 5 Disconnect the USB cable.
 - If any message appears, click [OK].
- 6 Set the Power Switch on the camcorder to "OFF".
The camcorder turns off.



When using Windows® 2000/Me

- 1 Confirm that the message [ACCESSING FILES] is not currently displayed on the LCD monitor of the camcorder.
 - If the message [ACCESSING FILES] is currently displayed, wait until it disappears before proceeding.
- 2 Double-click the [Unplug or Eject Hardware] icon in the status bar.
The [Unplug or Eject Hardware] dialog box appears.
- 3 Select [JVC DV Camera Storage] or [USB Disk], and then click [Stop].



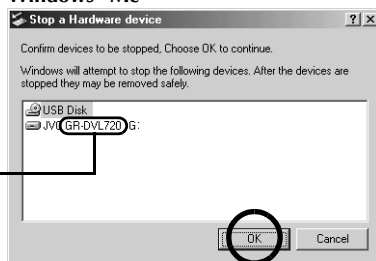
The [Stop a Hardware device] dialog box appears.

4 Click [OK].

● **Windows® 2000**



● **Windows® Me**



The model name depends on the connected camcorder.

5 A message indicating that the device can be safely removed appears. Click [OK].

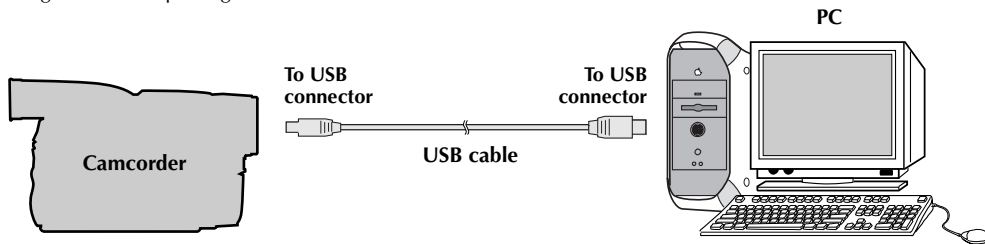
6 Disconnect the USB cable.

7 Set the Power Switch on the camcorder to "OFF".

The camcorder turns off.

Connections (Macintosh)

Connect the USB cable to copy still image and video clip files in a memory card to the PC or to use ImageMixer in capturing video in real time.



1 To assure safety, make sure all units are turned off before making any connections.

2 Use the USB cable to connect the camcorder to the PC.

- We recommend that you use the AC Adapter.

NOTES:

- When the USB cable is connected, turning on or off the camcorder or switching the VIDEO/MEMORY mode on the camcorder causes malfunctions of the PC.
- If you connect the camcorder to the PC through a USB hub, compatibility issues between the hub and the PC may result in instability in the operation of the PC. If this happens, connect the camcorder directly to the PC, not through the hub.
- Do not use an extension USB cable.

Software Installation (Macintosh)

Follow the procedure described below to install the software.
Quit any other software you are using.

1 Load the provided CD-ROM into the PC. Double click the CD-ROM icon.

2 Double-click the [ImageMixer] folder in the CD-ROM.



3 Double-click the [Setup Menu] icon.
The installer starts up.



4 Select [USB Driver] or [PIXELA ImageMixer].

To install [USB Driver], click the [USB Driver] icon.

To install [PIXELA ImageMixer], click the desired language icon. Follow the instructions which appear on the screen.

NOTES:

- The PIXELA ImageMixer instruction manual is included on the CD-ROM in PDF format. Double-click the [Docs] folder. Open the "Start.pdf" file and click the button of the desired language. Note that Adobe® Acrobat® Reader must be installed to read PDF files. The Installer of Adobe® Acrobat® Reader is included within the [Reader] folder on the CD-ROM.
- For details on how to use **iVisit**, refer to "Appendix" in the Digital Photo Navigator instruction manual on the CD-ROM.

Viewing the Contents of a Memory Card (Macintosh)

1 Connect the camcorder to the PC with a USB cable. (☞ pg. 9)

2 Make sure that there is a memory card in the camcorder.

3 Set the camcorder to the memory card playback mode.

- Refer to the camcorder's instruction manual for details.

[USB MODE] appears on the camcorder's LCD monitor. The memory card icon appears on the desktop.

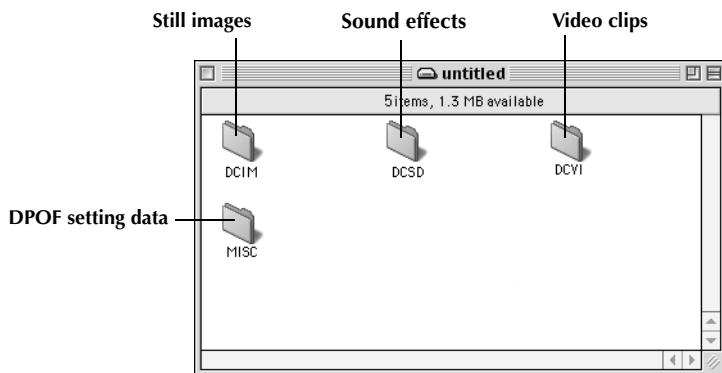
- The name of the memory card icon is "untitled". We recommend that you name the icon to tell it from the other removable disks or folders.



4 Double-click the memory card icon on the desktop.

The folders in the memory card appear.

The following folders are automatically created in the memory card. Different file types are stored in different folders.



Still images
(extension ".jpg") : Folders within the [DCIM] folder

Video clips
(extension ".asf") : Folders within the [DCVI] folder

Sound effects
(extension ".mp3") : [100]VCGR] folder within the [DCSD] folder

- The [DCSD] folder is displayed only when the camcorder is equipped with Digital Sound Effects function and sound effects is stored in the memory card.

DPOF setting data : Folders within the [MISC] folder

NOTES:

- Saving the wrong kinds of files in a memory card or deleting files or folders from a memory card can cause problems with the operation of the camcorder. When it is necessary to delete a file from a memory card, delete it through the camcorder.
- Never disconnect the USB cable while the message [ACCESSING FILES] is displayed on the camcorder's LCD monitor.
- If you are using a brand new memory card, you need to initialize the memory card with the camcorder first. You may not be able to copy files from the memory card to the PC without doing so.

For owners of camcorders equipped with Digital Sound Effect function;

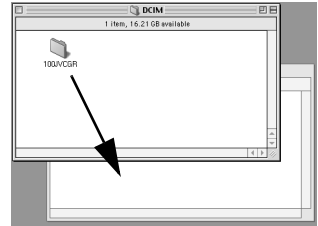
The CD-ROM contains digital sound files (data saved on the provided memory card at the factory). When the memory card has been formatted, follow the step below to save the files on the memory card.

- Copy the "DCSD" folder on the CD-ROM into the root directory (volume) of the memory card.

Copying Files to the PC (Macintosh)

Still image and video clip files that are stored in a memory card can be copied to the PC and played back on the PC.

- 1 Double-click the memory card icon on the desktop.
The folders in the memory card appear.
- 2 Double-click the destination folder.
- 3 Select the folder to be copied, and then drag and drop that folder in the destination folder.
 - To copy still images: Copy the folder within the [DCIM] folder.
 - To copy video clips: Copy the folder within the [DCVI] folder.The message [ACCESSING FILES] appears on the LCD monitor of the camcorder, and the folder is copied from the memory card to the PC.



NOTE:

Never disconnect the USB cable while the message [ACCESSING FILES] is displayed on the camcorder's LCD monitor.

Playing Back Files on the PC (Macintosh)

Still images

Use an application that can handle the JPEG file format. To view a still image, either double-click the still image file (extension ".jpg"), or drag and drop the file on the application icon.

Video clips (Only for the camcorder equipped with E-Mail Clip Recording function)

Use the Windows Media™ Player for Mac (version 6.4 or later). You can download the Windows Media™ Player for Mac from the Microsoft web site at:

<http://www.microsoft.com/>

Disconnecting the USB cable (Macintosh)

Before loading or unloading memory cards or turning off the PC, first disconnect the USB cable and turn off the camcorder.

- 1 Drop the memory card icon on the desktop into the [Trash] icon.
 - If the confirmation message appears, click [OK].
- 2 Confirm that the message [ACCESSING FILES] is not currently displayed on the LCD monitor of the camcorder.
 - If the message [ACCESSING FILES] is currently displayed, wait until it disappears before proceeding.
- 3 Disconnect the USB cable.
- 4 Set the Power Switch on the camcorder to "OFF".
The camcorder turns off.

