JVC

ImageMixer 1.7   ENGLISH

INSTRUCTIONS

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.

ATTENTION:
When connecting a USB cable or a DV cable to PC
● Never switch the VIDEO/MEMORY (DSC) mode on the camcorder when the USB cable is connected. It may cause the camcorder not to be recognized by the PC. If it occurs, confirm that the PC is not accessing the camcorder, then disconnect the USB cable and connect it again.
● Never turn on or off the camcorder when the USB or DV cable is connected. It may cause malfunctions of the PC.

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.
● 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

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● 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.

Reading this document

This document consists of the following sections.
Before use, please read "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE" for preparation.

■ ImageMixer 1.7

This section introduces the ImageMixer software. In addition to capturing still images and creating albums, ImageMixer is used for a variety of other functions, including color and brightness adjustment, and capturing videos through a USB cable or a DV cable. ImageMixer is also used to edit your captured video and then create a Video CD.* For details, refer to the ImageMixer help.
* To create a Video CD, a CD-R drive is necessary. If you are using a Windows® PC, refer to the following web site for a drive that is compatible with Windows®:
  http://www.imagemixer.com
  If you are using a Macintosh, the application Toast™ by Roxio, Inc. is also necessary.

■ Holding a video conference over the Internet (Windows® Only)

This section explains how to use a camcorder as a web camera and to hold a video conference over the Internet. (☞ pg. 21)

■ Loading files from a memory card through an adapter

This section explains how to load images into the PC that does not have a USB connector. (☞ pg. 25)

■ Troubleshooting

Meanings of symbols

The following symbols are used in this document.

NOTE:
Indicates problems that could occur while using these softwares, phenomena that may appear to be a problem, limitations on the use of these softwares, or other information that is useful to know.

☞
Indicates pages where related information can be found.

CONTINUED ON NEXT PAGE
Indicates that the explanation continues on the next page.

Copyrights

Under copyright law, any material that you may edit with this software cannot be used for any purpose other than your own personal enjoyment without the permission of the copyright holder. Note that this restriction applies when dubbing tracks from a CD as background music for your own movies.

Capabilities

The ImageMixer software possesses a variety of functions. Its primary applications are described below.

Editing your own original movies

ImageMixer allows you to capture video from a camcorder, rearrange scenes, add special effects when changing scenes, insert still images, and otherwise freely edit your own movies. ImageMixer also allows you to add audio and background music.
The edited movie is stored in MPEG1 format, which provides a comparatively smaller file size. This makes it more convenient to distribute it to your friends, for example, expanding the range of possibilities for which you can use your camcorder.

Capturing video from tape*
Connect the camcorder to the PC with a USB cable. ImageMixer can then convert the video on tape to MPEG1 format and store it in the PC.

Capturing video in real time*
Connect the camcorder to the PC with a USB cable. ImageMixer can then record on the hard disk in the PC, instead of on the tape.

Loading still images from a memory card
Connect the camcorder to the PC with a USB cable. ImageMixer can then load still images from a memory card.

Capturing audio from a microphone or CD
ImageMixer can record audio from the PC's microphone. Because the recording can be made while playing the video back at the same time, it is easy to add audio that is in sync with previously recorded video.
ImageMixer can also add music from a CD as background music for your movie.

*These features are not available when ...
… the camcorder and a Windows® 98 PC are connected with a USB cable
… the camcorder and a Windows® 98/98SE PC or Macintosh are connected with a DV cable

Editing still images

ImageMixer can adjust the brightness and contrast of still images and extract only the necessary portions. ImageMixer also has a variety of functions for correcting eye color tones that are too red.
In addition, ImageMixer allows you to freely lay out still images, pictures, text, and other elements to create your own postcards, CD-R labels, etc.

Managing files on hard disk

ImageMixer can manage elements that can be used in movie editing (video, still images, audio) as albums. Aside from permitting checking of files in list format or through a slide show, ImageMixer can also perform file operations such as search, move, duplicate, and delete. In addition to making movie editing easier, these functions are also useful for classifying and managing images with a camcorder.

Create a Video CD

After you load and edit video clips on your PC, you are ready to create a Video CD* (☞ pg. 17). It is also possible to create a Video CD from camcorder's tape directly (Windows® only). Since up to 64 minutes of video can be recorded to a 650MB CD, you can easily use a Video CD to send files too large for e-mail attachment.

Video CDs can also be played back on most DVD players, so they are useful when you want to send video to someone who does not own a PC.

* To create a Video CD, a CD-R drive is necessary. If you are using a Windows® PC, refer to the following web site for a drive that is compatible with Windows®:
  http://www.imagemixer.com
  If you are using a Macintosh, the application Toast™ by Roxio, Inc. is also necessary.

Add a camera to your PC

You can transform your camcorder into a peripheral for your PC.

For example, when you are shooting a video, you can record on your PC instead of on a cassette. You can also use Windows® NetMeeting, Windows® Messenger (Windows® XP only) (or similar software) in combination with this software to hold a video conference over the Internet. (In order to conduct a video conference over the Internet with Windows® NetMeeting or Windows® Messenger, you must register with MSN Messenger and Microsoft HotMail.)

IMPORTANT:
ImageMixer only registers the location of an image file and its thumbnail image in albums. When images are handled by ImageMixer, the original file is affected by the operation. For example, if an image is deleted from an album, the original file is deleted. If a file is moved, ImageMixer loses track of where the file resides. Therefore, file operations should be conducted carefully.

Help

This manual only provides an overview of ImageMixer. For more details, refer to the help.
To display the help for Windows®, click the [?] button located in the upper right corner of the ImageMixer screen. Clicking this button launches the web browser and displays the help.
To display the help for Macintosh, double-click the "manual.html" file in the [ImageMixer 1.7] folder.

PIXELA User Support Center

For more details on how to use ImageMixer, refer to the following User Support Center.
North America (Los Angeles)
Telephone: +1-213-341-0163
Europe (U.K.)
Telephone: +44-1489-564-764
Asia (Philippines)
Telephone: +63-2-438-0090

Capturing video in real time

When a camcorder is connected to the PC with a USB cable, the video from the camcorder can be recorded on the PC's hard drive instead of on tape or in a memory card (real-time capture).

1 **Connect the camcorder to the PC with a USB cable.**
● Refer to "Connections (Windows®)" (☞ pg. 9) or "Connections (Macintosh)" (☞ pg. 14) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

2 **Set the camcorder's VIDEO/MEMORY Switch to "MEMORY".**

3 **Set the camcorder's Power Switch to "Ⓐ" or "Ⓜ" while pressing down the Lock Button located on the switch.**
The camcorder is now on.

" 🖳 " appears on the camcorder's LCD monitor.
● If " 🖳 " does not appear, install [USB Video Streaming driver]. Refer to "Software Installation (Windows®)" (☞ pg. 4) and "Software Installation (Macintosh)" (☞ pg. 14) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

NOTE:
The procedure is different when reading or writing a memory card.

4 **Click [Start], go to [All Programs] or [Programs] – [PIXELA] – [ImageMixer], and then click [ImageMixer Ver.1.7].**
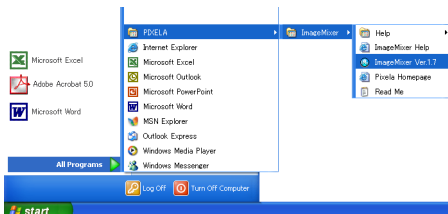
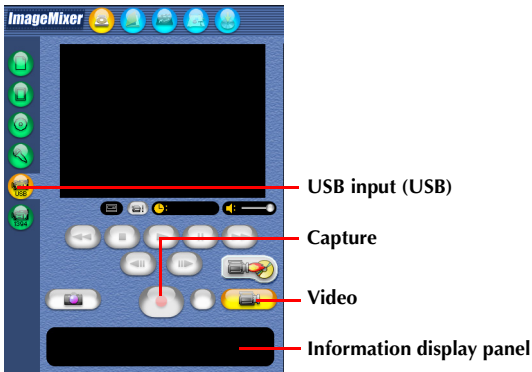● For Macintosh, double-click the [ImageMixer] icon on the PC.

ImageMixer starts up.

5 **Click the Input button.**

The input mode screen appears.

6 **Click the USB input (USB) button.**

USB input (USB)

Capture

Video

Information display panel

The USB input mode screen appears.

7 **Click the Video button.**
The amount of available storage space is displayed in the information display panel.

8 **Click the Capture button.**
The capture operation begins.

9 **Click the Capture button again.**
Once conversion ends, the video file (MPEG1) is registered in the album.

NOTE:
If the MPEG1 files cannot be converted to MPEG4 files with ImageMixer, install Windows Media™ Player (version 7 or later). Windows Media™ Player can be loaded from Microsoft's web site:
http://www.microsoft.com/

Capturing still images

Still image

Capture

Information display panel
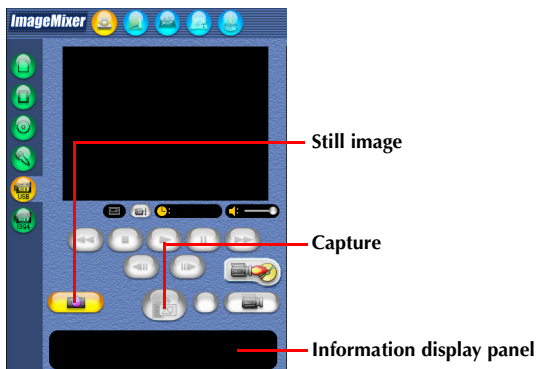
1 **Click the Still image button.**
2 **Click the Capture button.**

The video image at the moment that the button was clicked is captured, and the resulting still image file is registered in the album.

NOTES:
● It is not possible to capture videos or still images if the USB Mass Storage Class driver is not installed properly. In this case, refer to "Updating [Device Manager] (Windows®)" (☞ pg. 8) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".
● On the information display panel or the file information dialog, some information such as file-created date may be incorrect.

Disconnecting the USB cable

**1** **Disconnect the USB cable.**
2 **Set the camcorder's Power Switch to "OFF".**

The camcorder turns off.

Capturing video from tape

When a camcorder is connected to the PC with a USB cable, video can be copied from the camcorder tape to the PC.

1 **Set the camcorder's VIDEO/MEMORY Switch to "VIDEO".**

2 **Set the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch.**
The camcorder is now on.

3 **Click [Start], go to [All Programs] or [Programs] – [PIXELA] – [ImageMixer], and then click [ImageMixer Ver.1.7].**
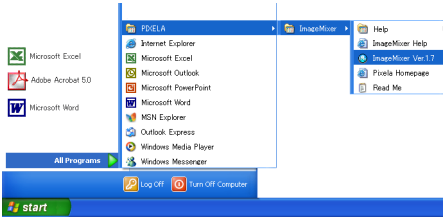
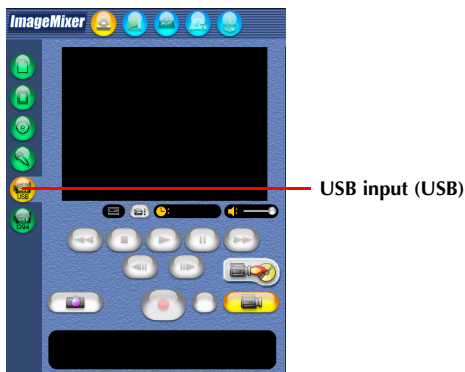● For Macintosh, double-click the [ImageMixer] icon on the PC.

ImageMixer starts up.

4 **Click the Input button.**
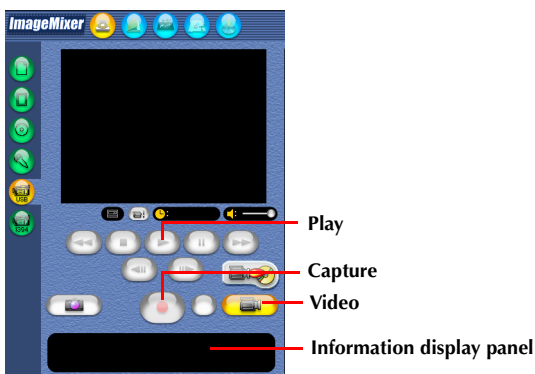

The input mode screen appears.

5 **Click the USB input (USB) button.**

USB input (USB)

The USB input mode screen appears. After a while, a blue screen appears.

Copying video

Play

Capture

Video

Information display panel

1 **Click the Video button.**
The amount of available storage space is displayed in the information display panel.

2 **Click the Play button.**
The camcorder begins playing back the video, and the same image appears on the PC screen.

3 **Click the Capture button.**
The capture operation begins.

4 **Click the Capture button again.**
Once conversion ends, the video file (MPEG1) is registered in the album.

NOTE:
If the MPEG1 files cannot be converted to MPEG4 files with ImageMixer, install Windows Media™ Player (version 7 or later). Windows Media™ Player can be loaded from Microsoft's web site:
http://www.microsoft.com/

Disconnecting the USB cable
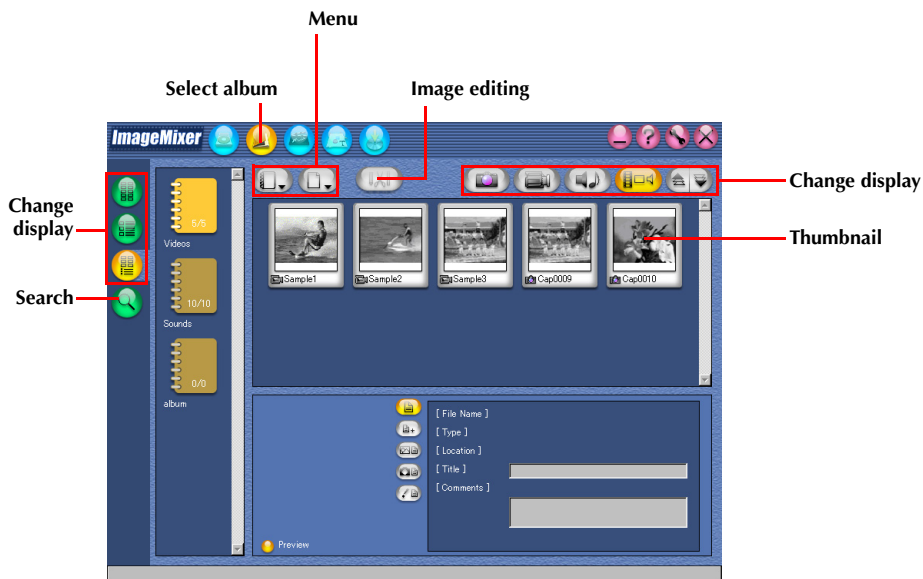
1 **Disconnect the USB cable.**

2 **Set the camcorder's Power Switch to "OFF".**
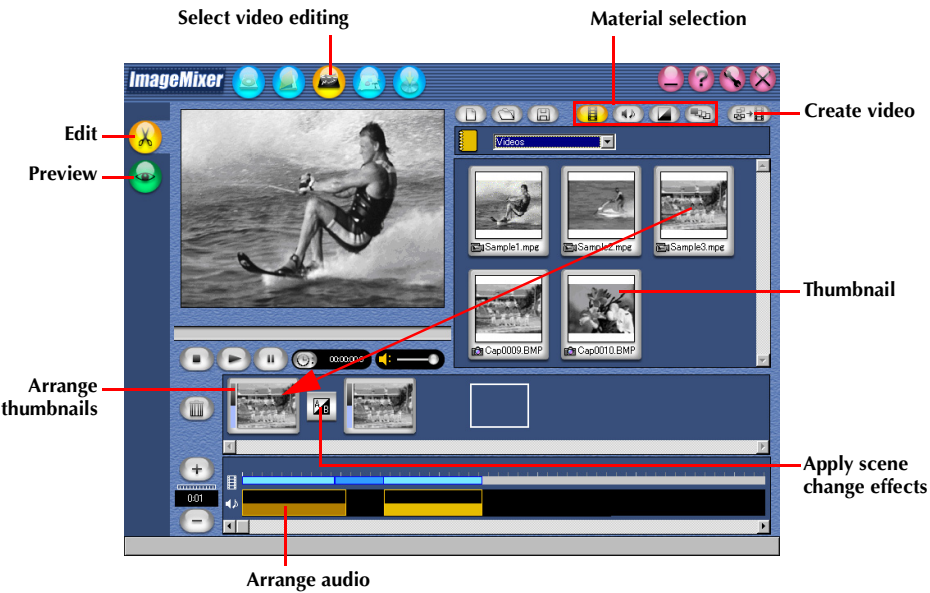The camcorder turns off.

NOTES:
- If you are using a Windows® PC, you can use a DV cable instead of a USB cable to capture video. In this case, click the Digital video camera input (1394) button in step **5** on page 12. For more details, refer to the help. (☞ pg. 7)
- To copy a video as a still image, click the Still image button in step **1** of "Copying video" and perform steps **2** – **4**.
- It is not possible to edit video keeping DV format. Use other DV editing application software available.
- If you capture video from a tape via an optional DV cable, noise may appear depending on the type or the performance of the hardware. In this case, use the USB cable.

ImageMixer can group and search for files (still images, video, and audio) registered in an album, according to their purpose. To play back a file, double-click on its thumbnail.

Menu

Select album

Image editing

Change display

Change display

Thumbnail

Change display

Search

	[File Name]
	[Type]
	[Location]
	[Title]
	[Comments]

Videos 5/5

Sounds 10/10

album 0/0

Sample1 Sample2 Sample3 Cap0009 Cap0010

Preview

ImageMixer can edit video files registered in an album. ImageMixer can also insert still images and add audio.

Select video editing

Material selection

Edit

Preview

Create video

Thumbnail

Arrange thumbnails

Apply scene change effects

Arrange audio

Double-clicking on one of the (video or still image) thumbnails arranged at the bottom of the screen causes the editing window to appear. The beginning/ending of videos can be deleted and the volume can be adjusted. The display time for still images can be adjusted.

Cropping editing

Sound editing

Cropping

OK
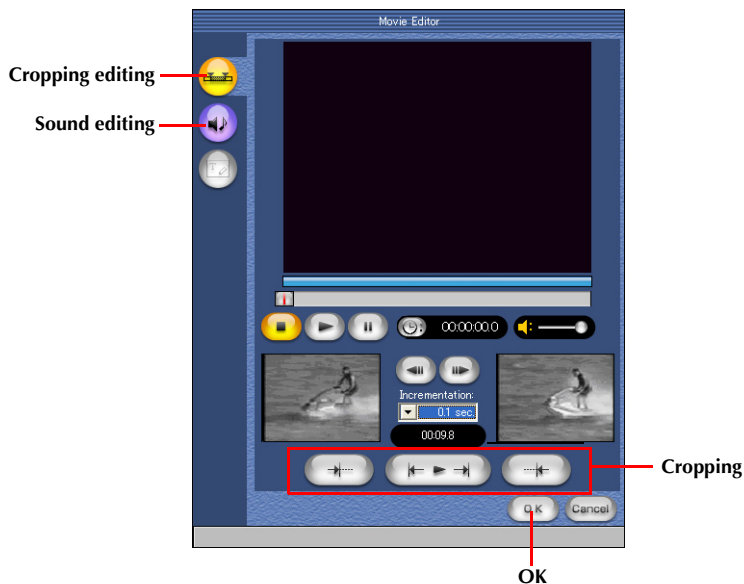
To check the results of editing, click the Preview button. Once editing is complete, click the Create video button to save the final product.

If your computer is equipped with a CD-R drive, you can use ImageMixer to create a Video CD from video clips captured on your PC or from camcorder's tape directly.

NOTES:
● If you are using a Windows® PC, refer to the following web site for a drive that is compatible with Windows®:
   http://www.imagemixer.com
● If you are using a Macintosh, the CD authoring application Toast™ by Roxio, Inc. and a compatible CD-R drive is also necessary to create a Video CD. Follow the steps below to create a Video CD image file, and then open it with Toast™ and create the Video CD.
● Some CD-R drives are incompatible. For details, please refer to the ImageMixer help. (☞ pg. 7)
● It is only possible to play back the created Video CD with the player which conform with Video CD standard Version 2.0.
● The image quality may be deteriorated when you create Video CD with video captured from the camcorder via a USB cable.

Creating a Video CD from video clips on the PC

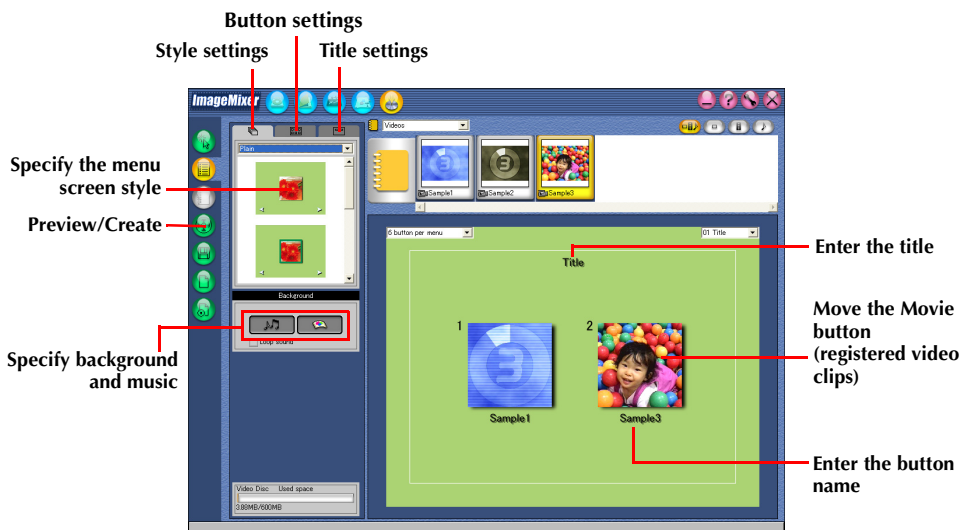**1**   **On the first screen of ImageMixer or ImageMixer screen, click the Video CD button.**

Video CD
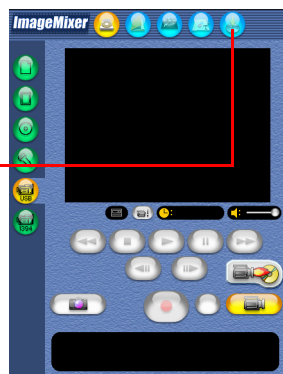
The Menu/Layout screen appears.

2   **After registering the video clips and entering the title and button name, click the Preview/ Create button.**

Button settings

Style settings   **Title settings**

Specify the menu screen style

Preview/Create

Specify background and music

Enter the title

Move the Movie button (registered video clips)

Enter the button name

The Preview/Create screen appears.

3   **Insert a blank CD-R disc in the CD-R drive and click the Create button to create a Video CD.**

Set up

Preview
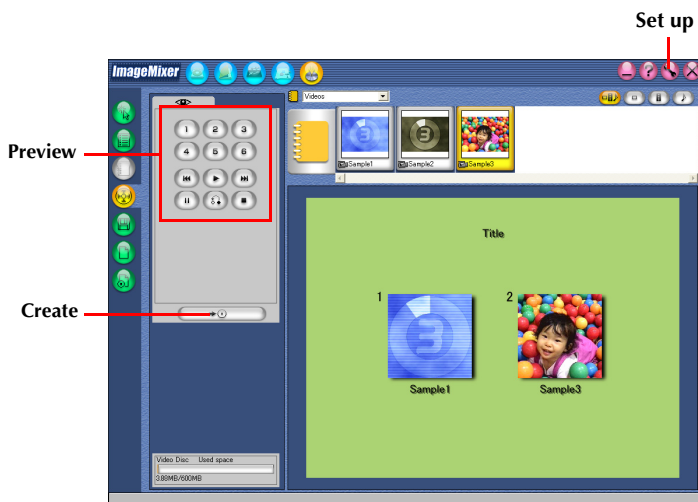
Create

Creating a Video CD from tape (Windows® Only)

Using ImageMixer Video CD Creation you can easily create Video CD from tape in the camcorder connected with a USB cable.

1 Connect the camcorder to the PC with a USB cable.
  ● Refer to "Connections (Windows®)" (☞ pg. 9) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

2 Insert a blank CD-R disc in the CD-R drive.

3 Set the camcorder's VIDEO/MEMORY Switch to "VIDEO".

4 Set the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
  The camcorder is now on.

5 On the ImageMixer screen, click the Video CD Creation startup button.

Video CD Creation startup

The Video CD Creation screen appears.

6 Select the drive and the speed for writing to the disc.
  ● Be sure to set the writing speed to the setting recommended by the drive manufacturer.
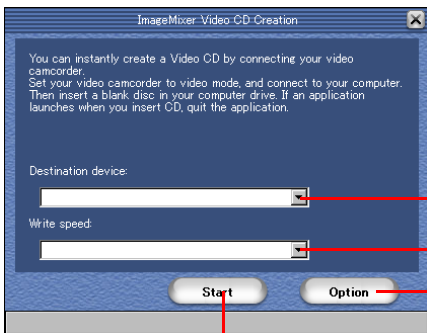
Click to select the drive.

Click to select the writing speed.
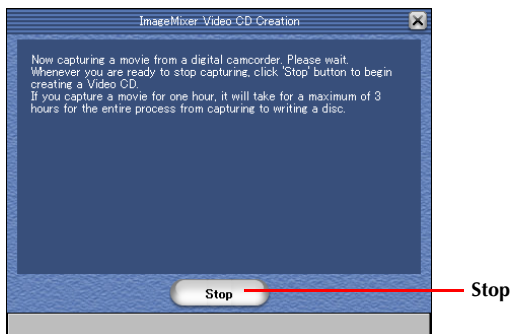
Option

Start

7 **Click [Option].**

Specify a work folder in which downloaded video files will be saved.
● If there is not enough free disc space, operations may not work properly. Select a hard drive with as much free space as possible.

8 **Click [Start].**

The process of downloading video from the camcorder's tape starts automatically.

9 **Click [Stop].**

Stop

10 **Insert a blank CD-R disc in the CD-R drive, then click [OK].**
● When inserting a blank disc, if a software program installed on your PC starts automatically, close the program.
The writing process starts.
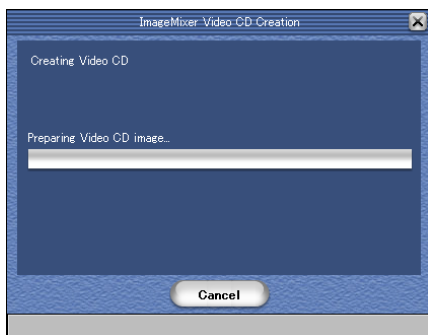
When the writing process ends, a confirmation screen appears.

11 **Click [Quit] to exit Video CD Creation.**
● To create another copy of the same Video CD, click [Start].

Using Windows® NetMeeting® (Windows® Only)

You can use Windows® NetMeeting® to conduct video conferences over the Internet, using a camcorder.

Preparation

1 **Confirm that Windows® NetMeeting® 3.0 or later and MSN Messenger Service are installed.**
   ● You can download the latest version of Windows® NetMeeting® or MSN Messenger Service from Microsoft's web site:
   http://www.microsoft.com/

2 **Install [USB Video Streaming driver].**
   ● Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".
   ● If the installation of [USB Video Streaming driver] has already been completed, go to step **3**.

3 **Connect the camcorder to the PC with a USB cable.**
   ● Refer to "Connections (Windows®)" (☞ pg. 9) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

4 **Set the camcorder's VIDEO/MEMORY Switch to "MEMORY".**

5 **Set the camcorder's Power Switch to "🅰" or "Ⓜ" while pressing down the Lock Button located on the switch.**
   The camcorder is now on.
   " 🖼 " appears on the camcorder's LCD monitor.
   ● If " 🖼 " does not appear, install [USB Video Streaming driver]. Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".
   NOTE:
   The procedure is different when reading or writing a memory card.

6 **Click [Start], go to [Settings] – [Control Panel], and then double click the [Multimedia] icon.**

7 **Select the [Audio] tab and click [JVC PIX-MCV Audio Capture] in the [Preferred device] box.**

8 **Start NetMeeting®, and set up the program as instructed on the screen.**
   ● An environment that provides for connection to the Internet and an e-mail address are also required.
   ● Select [JVC PIX-MCV Audio Capture] as a recording device in the [Audio adjustment] wizard.

9 **In the [Conference] menu, click [Directory].**
   The [Find Other Party] dialog box appears.

10 **Register with HotMail as instructed on the screen.**

11 **Set up MSN Messenger as instructed on the screen.**
   ● If setup was completed previously, the MSN Messenger Service logon window appears.

12 **Exit NetMeeting® and MSN Messenger Service.**

Videoconferencing

1 Connect to the internet.

2 Connect the camcorder to the PC with a USB cable.
● Refer to "Connections (Windows®)" (☞ pg. 9) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

3 Set the camcorder's VIDEO/MEMORY Switch to "MEMORY".

4 Set the camcorder's Power Switch to "🅰" or "Ⓜ" while pressing down the Lock Button located on the switch.
The camcorder is now on.

" 🖼 " appears on the camcorder's LCD monitor.
● If " 🖼 " does not appear, install [USB Video Streaming driver]. Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

NOTE:
The procedure is different when reading or writing a memory card.

5 Start NetMeeting®, and click [Directory] in the [Conference] menu.
The MSN Messenger Service logon window appears.

6 Log on to the MSN Messenger Service as instructed on the screen.

7 In the list of [Current Friends Online], specify the party with whom you will videoconference.
You can now begin the videoconference if your friends respond. The same environment is necessary for your friends.

NOTE:
Never turn the Power switch of a camcorder during video conference.

For details, refer to the help for the MSN Messenger Service and NetMeeting®. Details on how to use NetMeeting® are expected to be available on the JVC web site.

JVC web site:
http://www.jvc-victor.co.jp/english/index-e.html

NOTES:
● If you are using Windows® 98, you cannot use the microphone in the camcorder. Either connect a third-party microphone to the PC, or use the PC's own microphone.
● If you are using a dial-up router or a broadband router, refer to the router's instruction manual.
● If you are using a firewall or a router, it is not possible to connect to the internet properly.
● Consult your Internet service provider for details before using NetMeeting®.
● Depending on the condition of the line, the quality of images or sound during videoconferences may differ.
● You can also send the video of a tape which the camcorder is playing back. In this case, set the camcorder's VIDEO/MEMORY Switch to "VIDEO" in step **3** and the Power Switch to "PLAY" in step **4**.

Using Windows® Messenger (Windows® XP Only)

If you are using a Windows® XP, you can use Windows® Messenger to conduct video conferences over the Internet, using a camcorder.

Preparation

1 Confirm that Windows® Messenger 4.6 or later is installed.
● You can download the latest version of Windows® Messenger from Microsoft's web site:
   http://www.microsoft.com/

2 Connect to the Internet and set up Windows® Messenger.
● Start Windows® Messenger and register your e-mail address and other information. For details, refer to the Windows® Messenger help.

3 Install [USB Video Streaming driver].
● Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".
● If the installation of [USB Video Streaming driver] has already been completed, go to step **4**.

4 Connect the camcorder to the PC with a USB cable.
● Refer to "Connections (Windows®)" (☞ pg. 9) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

5 Set the camcorder's VIDEO/MEMORY Switch to "MEMORY".

6 Set the camcorder's Power Switch to "🅰" or "Ⓜ" while pressing down the Lock Button located on the switch.
The camcorder is now on.
" 🖭 " appears on the camcorder's LCD monitor.
● If " 🖭 " does not appear, install [USB Video Streaming driver]. Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

NOTE:
The procedure is different when reading or writing a memory card.

7 In the main screen of Windows® Messenger, click [Tools] and then select [Audio and Video Tuning Wizard…].

8 Select [JVC PIX-MCV Video Capture] and then click [Next].
● Make sure that the image from the camcorder is displayed.

9 Click [Next]. In the microphone setting, specify [JVC PIX-MCV Audio Capture]. In the speaker setting, specify the sound board that you are using.
● If you specify [JVC PIX-MCV Audio Capture] for the microphone setting, you cannot select [Use headphones].

10 Click [Next]. Check the speaker or headphone volume.
● Click [Test] and check for sound from your speakers or headphones.

11 Click [Next]. Check the microphone volume.
● The microphone volume is automatically adjusted. Speak into the camcorder microphone and check the microphone volume level so that the green bar extends into the yellow range.

12 Click [Next] and exit the Wizard.

Videoconferencing

1   Connect to the internet.

2   Connect the camcorder to the PC with a USB cable.
   ● Refer to "Connections (Windows®)" (☞ pg. 9) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

3   Set the camcorder's VIDEO/MEMORY Switch to "MEMORY".

4   Set the camcorder's Power Switch to "🄰" or "🄼" while pressing down the Lock Button located on the switch.
   The camcorder is now on.
   " 🖭 " appears on the camcorder's LCD monitor.
   ● If " 🖭 " does not appear, install [USB Video Streaming driver]. Refer to "Software Installation (Windows®)" (☞ pg. 4) in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE".

   NOTE:
   The procedure is different when reading or writing a memory card.

5   Log on to the Windows® Messenger.
   ● Register your friend's e-mail address beforehand. For details, refer to the Windows® Messenger help.

6   In the Windows® Messenger screen, make sure that someone is online besides yourself.
   ● Another friend must be online for you to call.

7   Right-click the name of your friend.

8   Click [Start Video Chat].
   The videoconference screen appears while you wait for a response from your friend. You can now begin the videoconference if your friend clicks [Agree].

NOTE:
Never turn the Power switch of a camcorder during video conference.

If the Image does not appear
● Upgrade to Windows® Messenger 4.6 or later. You can download the latest version of Windows® Messenger from Microsoft's web site.
   http://www.microsoft.com/
● Update your version of Windows® XP. Click [Start], and select [Windows Update] in [All Programs]. For details, refer to the Windows® XP help or the Microsoft website.
   http://www.microsoft.com/

For details, refer to the help for the Windows® Messenger. Details on how to use Windows® Messenger are expected to be available on the JVC web site.

JVC web site:
http://www.jvc-victor.co.jp/english/index-e.html

NOTES:
● When you use Windows® Messenger, your friend must use the same application. If your friend uses Windows® NetMeeting®, please use Windows® NetMeeting® version 3.0 or later. (☞ pg. 21)
● If you are using a dial-up router or a broadband router, refer to the router's instruction manual.
● If you are using a firewall or a router, it is not possible to connect to the internet properly.
● Consult your Internet service provider for details before using Windows® Messenger.
● Depending on the condition of the line, the quality of images or sound during videoconferences may differ.
● You can also send the video of a tape which the camcorder is playing back. In this case, set the camcorder's VIDEO/MEMORY Switch to "VIDEO" in step **3** and the Power Switch to "PLAY" in step **4**.

You can read and write files on a camcorder memory card by using an adapter (sold separately).

Floppy disk adapter **(CU-VFSD50)**	:	For PCs that do not have a USB connector, or which are running Windows® 95/NT.
PC card adapter **(CU-VPSD60)**	:	For PCs with a PC card slot
USB reader/writer **(CU-VUSD70)**	:	For applications that use numerous memory cards

The following description assumes that a floppy disk adapter is being used. For details on how to use each specific type of adapter, refer to the instructions provided with that adapter.

1 Remove the memory card from the camcorder.

2 Insert the memory card in the floppy disk adapter.

3 Insert the floppy disk adapter into the floppy disk drive of the PC.

4 Copy the necessary files from the floppy disk to the hard disk.

Windows®

SYMPTOM	CORRECTIVE ACTION
Although the USB cable is connected, PC operating system does not recognize the memory card in the camcorder.	• Make sure that the AC Adapter is connected to the camcorder and that the power is on. • Make sure that the USB cable is connected securely. (☞ pg. 9 in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE") • Either use a USB hub that has its own power supply, or connect the USB cable directly to the PC's USB connector. • Windows® might not be recognizing the USB connector. Make sure that the USB (Universal Serial Bus) controller within [Device Manager] is usable.
Cannot copy or save files.	• Make sure that there is enough free space available in the drive where you are trying to copy or save a file. • Make sure that the drive where you are trying to copy or save a file is not write-protected. • Make sure that a file with the same name does not already exist where you are trying to copy or save a file. • Either use a USB hub that has its own power supply, or connect the USB cable directly to the PC's USB connector.
The colors displayed on the PC are odd.	• Images will not be displayed correctly if the display is set for 256-color (or fewer) display.
No audio or video during ImageMixer operations.	• Verify and change Windows® and ImageMixer settings. If this does not work, update your hardware drivers for Windows® XP. You can download the latest version of the drivers from your PC's manufacturer's website.
[Found New Hardware Wizard] screen appears. (Windows® XP)	• Disconnect the cable, then connect the cable used when installing the driver.
The created date of the file is not displayed correctly on the information display panel.	• The created date is not displayed correctly if the date is not set on the camcorder.

NOTE:
When using a laptop PC, operation may be interrupted by a warning when the battery is nearly exhausted.
● If there is software which monitors the status of the battery running in the [StartUp] folder…
Close the application, or delete/move its icon from the [StartUp] folder and reboot your PC.
● If you are using your PC's power management function…
Right-click the [My Computer] icon, then select [Properties]–[System Properties]–[Device Manager]–[System Devices]–[Advanced Power Management Support]. Deactivate the power management function.

Macintosh

SYMPTOM	CORRECTIVE ACTION
Although the USB cable is connected, PC operating system does not recognize the memory card in the camcorder.	• Make sure that the AC Adapter is connected to the camcorder and that the power is on. • Make sure that the USB cable is connected securely. (☞ pg. 14 in "SOFTWARE INSTALLATION AND USB CONNECTION GUIDE") • Either use a USB hub that has its own power supply, or connect the USB cable directly to the PC's USB connector.
Cannot copy or save files.	• Make sure that there is enough free space available in the drive where you are trying to copy or save a file. • Make sure that the drive where you are trying to copy or save a file is not write-protected. • Make sure that a file with the same name does not already exist where you are trying to copy or save a file. • Either use a USB hub that has its own power supply, or connect the USB cable directly to the PC's USB connector.
The created date of the file is not displayed correctly on the information display panel.	• The created date is not displayed if the date is not set on the camcorder.

JVC

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