


Recording edited pictures from a tape as a moving picture – Digital program editing (on “Memory Stick”s)

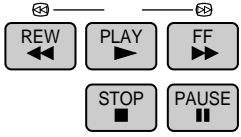
You can duplicate selected scenes (programs) for editing onto “Memory Stick”s.

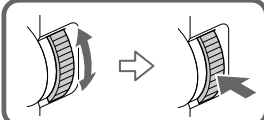
Making the program

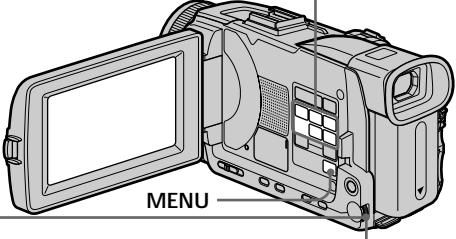
- (1) Set the POWER switch to VCR.
- (2) Insert the tape for playback, and a “Memory Stick” for recording into your camcorder.
- (3) Press MENU and turn the SEL/PUSH EXEC dial to select VIDEO EDIT in , then press the dial (p. 209).
- (4) Turn the SEL/PUSH EXEC dial to select MEMORY, then press the dial.
- (5) Turn the SEL/PUSH EXEC dial to select IMAGESIZE and select the desired image size, then press the dial.
- (6) Search for the beginning of the first scene you want to insert using the video operation buttons, then pause playback.
You can fine-adjust one frame at a time with EDITSEARCH.
- (7) Press MARK on the Remote Commander, or turn the SEL/PUSH EXEC dial to select MARK, then press the dial.
The IN point of the first program is set, and the top part of the program mark changes to light blue.
- (8) Search for the end of the first scene you want to insert using the video operation buttons, then pause playback.
- (9) Press MARK on the Remote Commander, or the SEL/PUSH EXEC dial.
The OUT point of the first program is set, then the bottom part of the program mark changes to light blue.
- (10) Repeat steps 6 to 9, then set the program.
When one program is set, the program mark changes to light blue.
You can set 20 programs in maximum.

“Memory Stick” Operations

6,8







7

```

VIDEO EDIT  [▶] 0:08:55:06
MARK        1 OUT
UNDO
ERASE ALL
START
IMAGESIZE
TOTAL 0:00:00
SCENE 0 [■] 2min [□]
[MENU] - END
                    
```

9

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VIDEO EDIT  [▶] 0:08:58:06
MARK        2 IN
UNDO
ERASE ALL
START
IMAGESIZE
TOTAL 0:00:12
SCENE 1 [■] 2min [□]
[MENU] - END
                    
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10

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VIDEO EDIT  [▶] 0:10:01:23
MARK        4 IN
UNDO
ERASE ALL
START
IMAGESIZE
TOTAL 0:00:31
SCENE 3 [■] 2min [□]
[MENU] - END
                    
```

Recording edited pictures from a tape as a moving picture - Digital program editing (on "Memory Stick"s)

Erasing the program you have set

Erase OUT first and then IN from of the last program.

- (1) Turn the SEL/PUSH EXEC dial to select UNDO, then press the dial.
- (2) Turn the SEL/PUSH EXEC dial to select EXECUTE, then press the dial.
The last set program mark flashes, then the setting is canceled.

To cancel erasing

Select RETURN with the SEL/PUSH EXEC dial in step 2.

Erasing all programs

- (1) Turn the SEL/PUSH EXEC dial to select VIDEO EDIT in the menu settings, then select MEMORY, then press the dial.
- (2) Turn the SEL/PUSH EXEC dial to select ERASE ALL, then select EXECUTE, then press the dial.
All the program marks flash, then the settings are canceled.

To cancel erasing all programs

Select RETURN with the SEL/PUSH EXEC dial in step 2.

To cancel a program you have set

Press MENU.

The program is stored in memory until the tape is ejected.

Notes

- You cannot dub the titles, display indicators, or the contents of cassette memory.
- You cannot operate recording during the Digital program editing on "Memory Stick"s.

On a blank portion of the tape

You cannot set IN or OUT on a blank portions of the tape.

If there is a blank portion between IN and OUT on the tape

The total time code may not be displayed correctly.

During making a program

If you eject the cassette, NOT READY appears on the screen. The program will be erased.

Recording edited pictures from a tape as a moving picture - Digital program editing (on "Memory Stick"s)

Performing the program (Dubbing on a "Memory Stick")

- (1) Turn the SEL/PUSH EXEC dial to select VIDEO EDIT in the menu settings, then select MEMORY, then press the dial.
- (2) Turn the SEL/PUSH EXEC dial to select START, then select EXECUTE, then press the dial.
Search for the beginning of the first program, then start dubbing.
The program mark flashes.
The SEARCH indicator appears during search, and the EDITING indicator appears during writing of data on your camcorder, and REC appears during dubbing on the screen.
The program mark changes to light blue after dubbing is complete.
When the dubbing ends, your camcorder automatically stops.

To stop dubbing during editing

Press ■ using the video operation buttons.

The program you made is recorded on a "Memory Stick" up to the place where you pressed ■.

To end the Digital program editing

Your camcorder stops when the dubbing ends. Then the display returns to VIDEO EDIT in the menu settings.

Press MENU to end the Digital program editing.

NOT READY appears on the LCD screen when:

- The program to operate the Digital program editing has not been made.
- The "Memory Stick" is not inserted.
- The write-protect tab on the "Memory Stick" is set to LOCK.

When "Memory Stick" does not have enough space to record


LOW MEMORY appears on the screen. However, you can record pictures up to the time indicated.

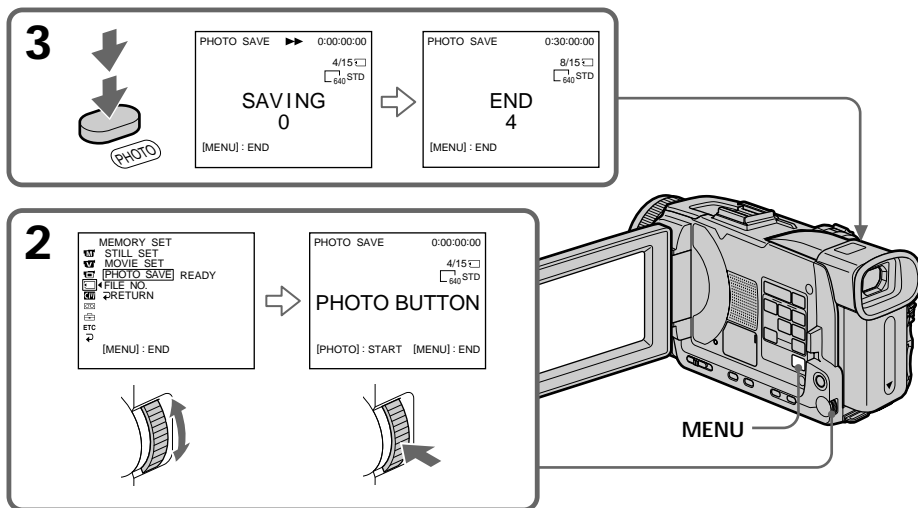
Copying still images from a tape - PHOTO SAVE

Using the search function, you can automatically capture only still images from tapes and record them on a “Memory Stick” in sequence.

Before operation

- Insert a recorded tape into your camcorder and rewind the tape.
- Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to VCR.
- (2) Press MENU and turn the SEL/PUSH EXEC dial to select PHOTO SAVE in , then press the dial (p. 204). PHOTO BUTTON appears on the screen.
- (3) Press PHOTO deeper. The still images from the tape are recorded on the “Memory Stick.” The number of still images copied is displayed. END is displayed when copying ends.



To stop copying

Press MENU or .

When the “Memory Stick” becomes full

MEMORY FULL appears on the screen, and copying stops. Insert another “Memory Stick” and repeat the procedure from step 2.

Copying still images from a tape – PHOTO SAVE

Image size of still images

Image size is automatically set to 640 × 480.

When the access lamp is lit or flashing

Do not shake or knock your camcorder. As well do not turn the power off, eject a “Memory Stick”. Otherwise, image data may become damaged.

If the write-protect tab on the “Memory Stick” is set to LOCK

NOT READY appears when you select the item in the menu settings.

When you change “Memory Stick”s during copying

Your camcorder resumes copying from the last image recorded on the previous “Memory Stick.”


Viewing still images

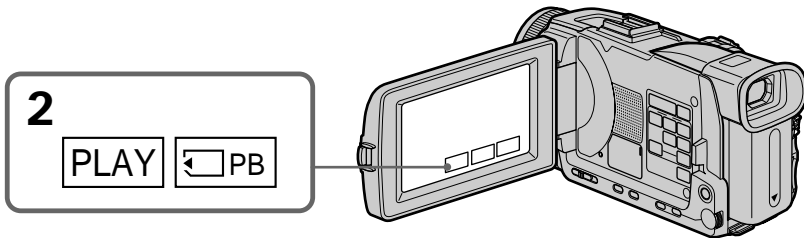
- Memory Photo playback

You can play back still images recorded on a "Memory Stick." You can also play back six images including moving pictures in order at a time by selecting the index screen. You can also use the Remote Commander for this operation.

Before operation

Insert a "Memory Stick" into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR.
Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press PLAY or  PB. The last recorded image is displayed.
- (3) Press -/+ on your camcorder to select the desired still image.
- : To see the previous image
+ : To see the next image



To stop Memory Photo playback



Press CAM, VCR on your camcorder or MEMORY PLAY button on the Remote Commander.

Viewing still images – Memory Photo playback

You may not be able to play back images with your camcorder:

- When playing back image data modified on your computer.
- When playing back image data shot with other equipment.

Notes on the file name

- The directory number may not be displayed and only the file name may be displayed if the structure of the directory does not conform to the DCF standard.
- “  DIRECTORY ERROR” may appear on screen if the structure of the directory does not conform to the DCF standard. While this message appears, you can play back images but cannot record them on the “Memory Stick.”
- The file name flashes on the screen if the file is corrupted or the file is unreadable.


To play back recorded images on a TV screen

- Before operation, connect your camcorder to the TV with the A/V connecting cable supplied with your camcorder.
- When operating memory photo playback on a TV or on the LCD screen, image quality may appear to have deteriorated. This is not a malfunction. The image data is as good as ever.
- Turn the audio volume of the TV down before operation, or noise (howling) may be output from the TV speakers.

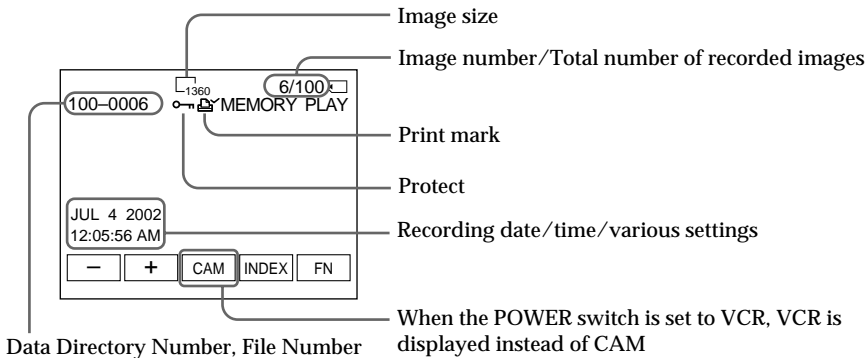
Still image

You can select still images also with -/+ on PAGE1/PAGE2/PAGE3.

When no image is recorded on the “Memory Stick”

When you press MEMORY PLAY on the Remote Commander, “ NO FILE” appears.

Screen indicators during still image playback



Recording data

You can view recording data (date/time or various settings when recorded) when you press DATA CODE on PAGE2. You can also use the Remote Commander for this operation.

To make screen indicators disappear

Press DISPLAY/TOUCH PANEL.

Viewing still images – Memory Photo playback

Playing back six recorded images at a time (index screen)

You can play back six recorded images at a time. This function is especially useful when searching for a particular image.

Before operation

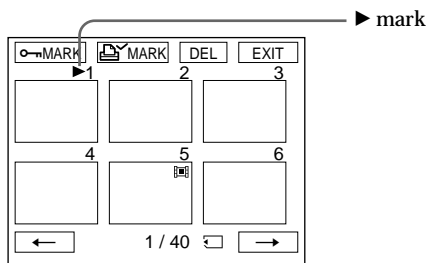
Insert a "Memory Stick" into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR.
Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press INDEX to display the index screen.

A red ► mark appears above the image that is displayed before changing to the index screen mode.

← : To display the previous six images

→ : To display the following six images



To return to FN

Press EXIT.

To return to the normal playback screen (single screen)

Press the image you want to display.

Note

When displaying the index screen, the number appears above each image. This indicates the order in which images are recorded on the "Memory Stick." These numbers are different from the data file names.

Image data modified on your computer or shot with other equipment

These files are sometimes not displayed on the index screen.

Viewing moving pictures

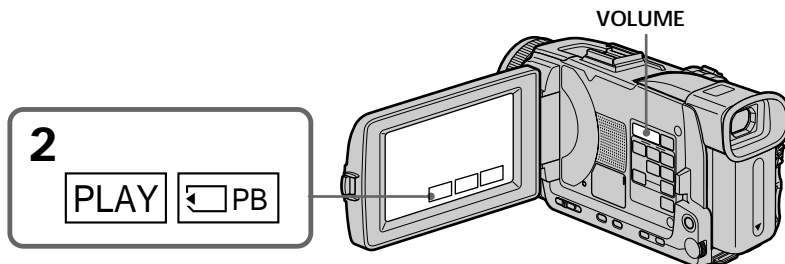
- MPEG movie playback

You can play back moving pictures recorded on a "Memory Stick." You can also play back six images including still images in order at a time by selecting the index screen.

Before operation

Insert a "Memory Stick" into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR.
Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press PLAY or ◀ PB.
- (3) Press -/+ to select the desired moving pictures.
- : To see the previous picture
+ : To see the next picture
- (4) Press MPEG ▶ II to start playback.
- (5) To adjust the volume, press either of the two buttons on VOLUME.
- : To turn down
+ : To turn up
When you close the LCD panel, sound is muted.



To stop MPEG movie playback

Press MPEG ▶ II.

You may not be able to play back images with your camcorder:

- When playing back image data modified on your computer.
- When playing back image data shot with other equipment.

To play back recorded pictures on a TV screen

- Before operation connect your camcorder to the TV with the A/V connecting cable supplied with your camcorder.
- Turn the audio volume of the TV down before operation, or noise (howling) may be output from the TV speakers.

Moving picture

You can select moving pictures also with -/+ on PAGE1/PAGE2/PAGE3.

When no image is recorded on the "Memory Stick"

When you press MEMORY PLAY on the Remote Commander, "◀ NO FILE" appears.

Viewing moving pictures – MPEG movie playback

Playing back a moving picture from the desired part

The moving picture recorded on “Memory Stick” is divided into 23 parts. You can select every each one point and play back pictures.

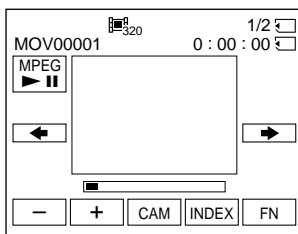
Before operation

Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR. Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press PLAY or \square PB.
- (3) Press +/- to select the desired moving pictures.
 - : To see the previous picture
 - + : To see the next picture
- (4) Press \leftarrow / \rightarrow to select the point where you want to play back.

\leftarrow :To see previous part

\rightarrow :To see next part



- (5) Press MPEG ▶ || to start playback.

To stop MPEG movie playback

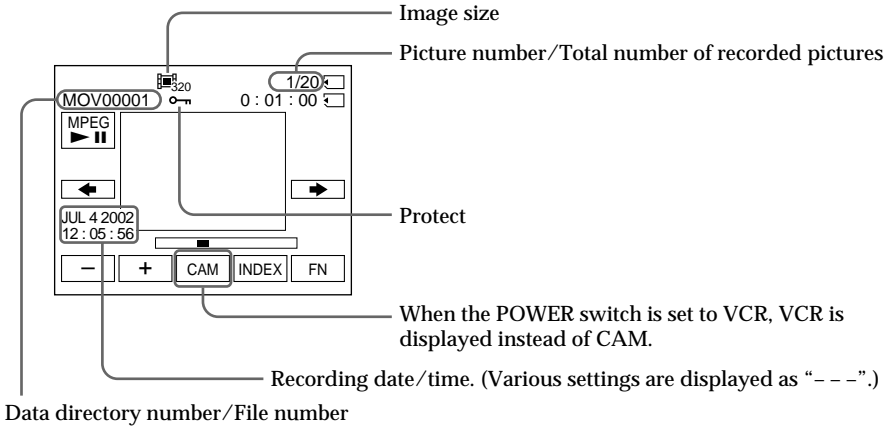
Press MPEG ▶ ||.

When recording time is too short

The moving picture may not be divided into 23 parts.

Viewing moving pictures – MPEG movie playback

Screen indicators during moving picture playback



Recording date/time

You can view recording date/time when you press DATA CODE on PAGE2. Various settings are not recorded. You can also use the Remote Commander for this operation. (p. 42)

To make screen indicator disappear

Press DISPLAY/TOUCH PANEL.

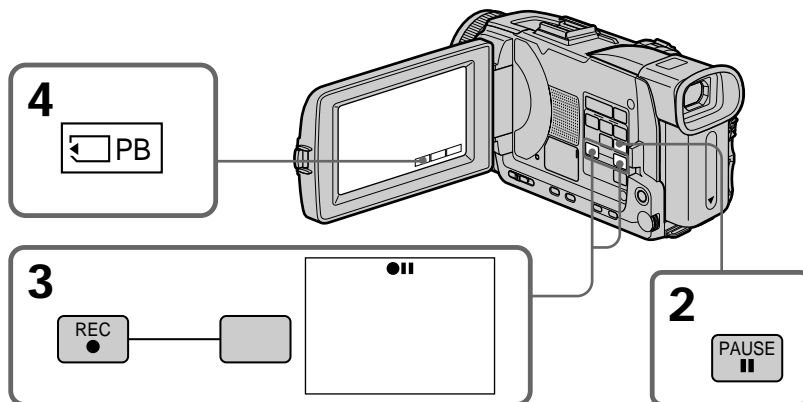
Copying images recorded on “Memory Stick”s to tape

You can copy images recorded on “Memory Stick”s and record them to tape.

Before operation

- Insert a tape for recording into your camcorder.
- Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to VCR.
- (2) Using the video control buttons, search a point where you want to record the desired images. Set the tape to playback pause.
- (3) Press ● REC and the button on its right simultaneously on your camcorder.
The tape is set to the recording pause.
- (4) Press ◀ PB. The last recorded image is displayed.
- (5) Press +/- to select the desired image.
- : To see the previous image
+ : To see the next image
- (6) Press ■ to start recording and press ■ again to stop.
● appears on the screen during recording.
- (7) If you have more to copy, repeat steps 5 and 6.



To stop copying in the middle

Press ■.

Copying images recorded on "Memory Stick"s to tape

During copying

You cannot operate the following functions:

- MEMORY PLAY
- MEMORY INDEX
- MEMORY DELETE
- MEMORY +/-

Note on the index screen

You cannot record the index screen.

If you press EDITSEARCH during pause

Memory playback stops.

Image data modified on your computers or shot with other equipment

You may not be able to copy modified images with your camcorder.

When copying movies

After step 6, press the MPEG ► || and play back the image.

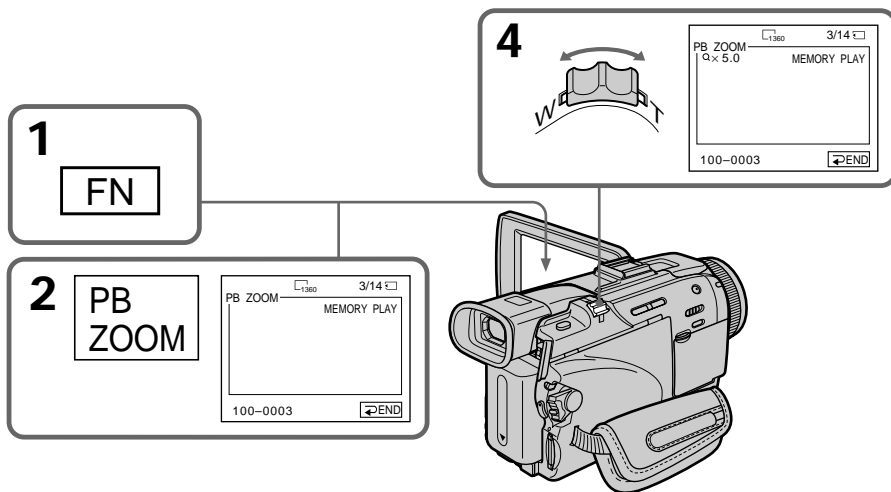
Enlarging still images recorded on "Memory Stick"s – Memory PB ZOOM

You can enlarge still images recorded on a "Memory Stick." You can select and view a desired part from the enlarged still image. Also, you can copy the desired part of the enlarged still image to tapes or "Memory Stick"s.

Before operation

Insert a "Memory Stick" into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Press FN to display PAGE1 during the memory playback (p. 120).
When you set the POWER switch to VCR, press FN and select PAGE2 during the memory playback (p. 24).
- (2) Press PB ZOOM. PB ZOOM screen appears.
- (3) Press the area that you want to enlarge in the frame on the PB ZOOM screen.
The area you pressed moves to the center of the screen, and the playback image is enlarged approximately at twice the size. If you press the other area, the area moves to the center of the screen.
- (4) Adjust the zoom ratio by the power zoom lever.
You can enlarge the image from approximately 1.1 times up to five times its size.
W : Decreases the zoom ratio
T : Increases the zoom ratio



To cancel PB ZOOM

Press **END**.

Enlarging still images recorded on "Memory Stick"s - Memory PB ZOOM

The PB ZOOM is canceled when the following operations:

- MENU
- MEMORY PLAY
- MEMORY INDEX
- MEMORY +/-

Moving pictures recorded on "Memory Stick"s

The PB ZOOM does not work.

To record the still image processed by Memory PB ZOOM on "Memory Stick"s

Press the PHOTO button to record the still image processed by PB ZOOM. (Images are recorded at 640 × 480 size.)

In the PB ZOOM mode

If you press DISPLAY/TOUCH PANEL button, the frame on the PB ZOOM screen disappears. You cannot move the part you pressed to the center of the screen.

Edge of the enlarged image

The edge of the enlarged image cannot be displayed at the center of the screen.

To record an image proceeded on PB ZOOM on tapes

Record an image following the procedure on page 162.

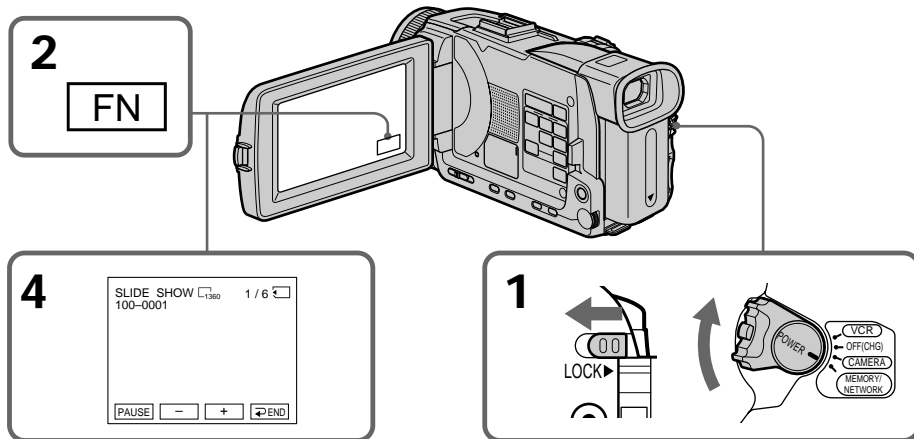
Playing back images in a continuous loop – SLIDE SHOW

You can automatically play back images in sequence. This function is useful especially when checking recorded images or during a presentation.

Before operation

Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press FN and select PAGE3.
- (3) Press SLIDE SHOW.
- (4) Press START. Your camcorder plays back the images recorded on a “Memory Stick” in sequence.



To stop the slide show

Press ↵ END.

To pause during a slide show

Press PAUSE.

To return to FN

Press ↵ END to return to PAGE3, then press EXIT.

To start the slide show from a particular image

Select the desired image using -/+ buttons before step 4.

To view recorded images on TV

Before operation connect your camcorder to a TV with the A/V connecting cable supplied with your camcorder.

If you change the “Memory Stick” during operation

The slide show does not operate. If you change the “Memory Stick,” be sure to follow the steps again from the beginning.



Preventing accidental erasure

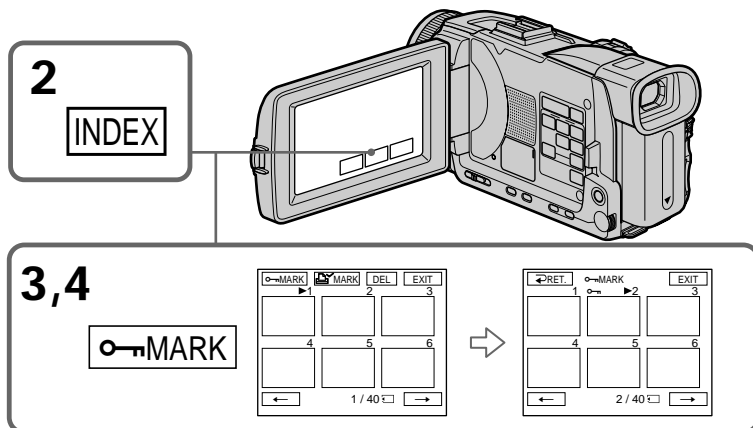
- Image protection

You can protect selected images to prevent accidental erasure of important images.

Before operation

Insert a "Memory Stick" into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR.
Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press INDEX on your camcorder to display the index.
- (3) Press  MARK. The screen to protect the image appears.
- (4) Press the image you want to protect. The "" appears on the protected image.



To return to FN

Press EXIT.

To cancel image protection

Press the image you want to cancel image protection in step 4 again. The "" disappears.

Note

Formatting erases all information on the "Memory Stick," including the protected image data. Before formatting a "Memory Stick", check its contents.

If the write-protect tab on the "Memory Stick" is set to LOCK

You cannot protect images.

Deleting images – DELETE

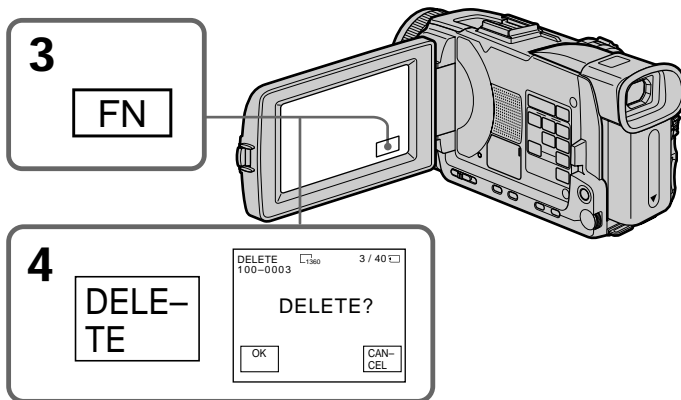
You can delete images stored in a “Memory Stick.” You can delete all images or only selected images.

Deleting selected images

Before operation

Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR.
Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Play back the image you want to delete.
- (3) Press FN to display PAGE1.
- (4) Press DELETE. “DELETE?” appears on the LCD screen.
- (5) Press OK. The selected image is deleted.



To return to FN

Press EXIT.

To cancel deleting an image

Press CANCEL in step 5.

Notes

- To delete a protected image, first cancel image protection.
- Once you delete an image, you cannot restore it. Before deleting an image, carefully check the image.

If the write-protect tab on the “Memory Stick” is set to LOCK
You cannot delete images.

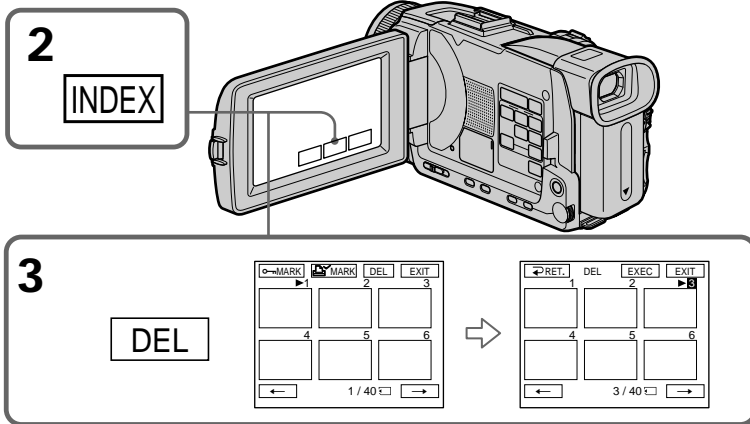
Deleting images – DELETE

Deleting selected images on the index screen

Before operation

Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press INDEX to display the index screen.
- (3) Press DEL. Then press the images you want to delete. The number of the selected image is highlighted.
- (4) Press EXEC. “DELETE?” appears on the LCD screen.
- (5) Press OK. The selected images are deleted.



To return to FN

Press EXIT.

To cancel deleting an image

Press CANCEL in step 5.


Deleting images - DELETE

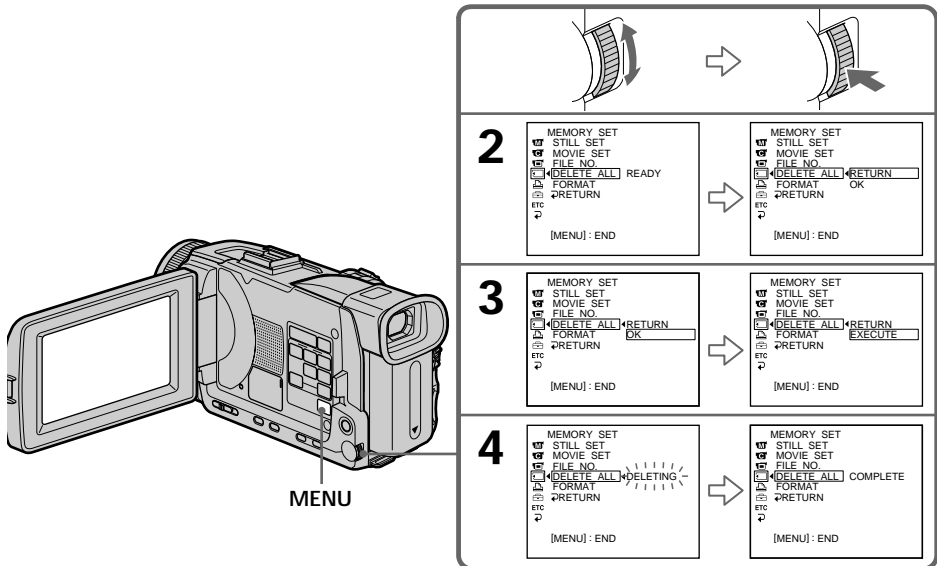
Deleting all images

You can delete all unprotected images in a “Memory Stick.”

Before operation

Insert a “Memory Stick” into your camcorder.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press MENU, then turn the SEL/PUSH EXEC dial to select DELETE ALL in , then press the dial (p. 204).
- (3) Turn the SEL/PUSH EXEC dial to select OK, then press the dial. OK changes to EXECUTE.
- (4) Turn the SEL/PUSH EXEC dial to select EXECUTE, then press the dial. DELETING flashes on the screen. When all unprotected images are deleted, COMPLETE is displayed.



To cancel deleting all the images in the “Memory Stick”

Select RETURN in step 3 or 4.

While DELETING appears



Do not turn the POWER switch or press any buttons.

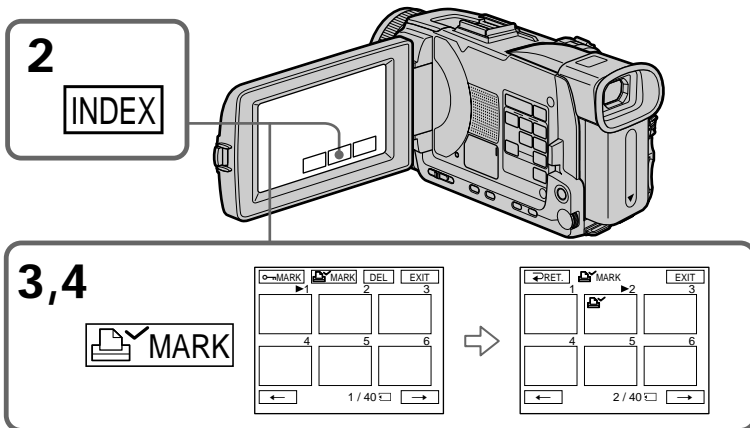
Writing a print mark – PRINT MARK

You can specify a recorded still image to print out by writing a print mark. This function is useful for printing out still images later. Your camcorder conforms to the DPOF (Digital Print Order Format) standard for specifying still images to print out.

Before operation

Insert a “Memory Stick” into your camcorder.


- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only) or VCR. Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press INDEX to display the index screen.
- (3) Press  MARK. The screen to write a print mark appears.
- (4) Press the image you want to write a print mark. The “” appears on the selected image.



To return to FN

Press EXIT.

To cancel writing print marks

Press the image you want to cancel the print mark in step 4 again. The  disappears.

If the write-protect tab on the “Memory Stick” is set to LOCK


You cannot write print marks on still images.

Moving pictures

You cannot write print marks on moving pictures.

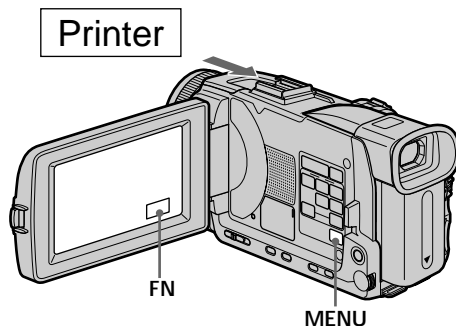
Using the optional printer

You can use the optional printer on your camcorder to print images on print paper. For details, refer to the operating instructions of the printer.

There are various ways of printing still images. The following describes the setup for print by selecting  in the menu settings and the set up for print setup by selecting 9PIC PRINT on the touch panel on your camcorder.


Before operation

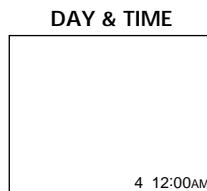
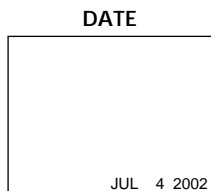
- Insert a recorded “Memory Stick” into your camcorder.
- Attach the optional printer to your camcorder as illustrated.



Setting with the menu

You can print DATE/TIME on print paper.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press MENU, then turn the SEL/PUSH EXEC dial to select DATE/TIME in , then press the dial (p. 205).
- (3) Turn the SEL/PUSH EXEC dial to select the desired mode.



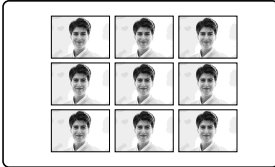
Using the optional printer

Setting with the touch panel

You can make 9 stickers on a single sheet when you print images recorded on a "Memory Stick" in 9PIC PRINT.

- (1) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only). Make sure that the LOCK switch is set to the left (unlock) position.
- (2) Press FN and select PAGE3.
- (3) Press 9PIC PRINT.
- (4) Press the desired mode.

SAME PICS



MULTI PICS or MARKED PICS*



* Nine still images with print marks are printed together.


Moving pictures recorded on "Memory Stick"

You cannot print moving pictures.

When "Memory Stick" has no files

" NO STILL IMAGE FILE" appears on the screen.

When there are no files with a PRINT MARK

" NO PRINT MARK" appears on the screen.

Images processed by 9PIC PRINT

You cannot insert a DATE/TIME indicator.

Images recorded in the MULTI SCRn

You cannot print images recorded in the multi screen mode on sticker type print paper.

Viewing images on your computer

- Introduction

There are the following ways of connecting the camcorder to a computer in order to view images saved on a “Memory Stick” or recorded on tape on your computer.

To view images on a computer which has a Memory Stick slot, first eject the “Memory Stick” from the camcorder and then insert it into the computer’s Memory Stick slot.

	Camcorder Connection jack	Connection cable	Computer environment requirements
Tape stills and movies	USB jack	USB cable (supplied)	USB connector, editing software
	DV jack	i.LINK cable (DV connecting cable) (optional)	DV connector, editing software
“Memory Stick” stills and movies	USB jack	USB cable (supplied)	USB connector, editing software

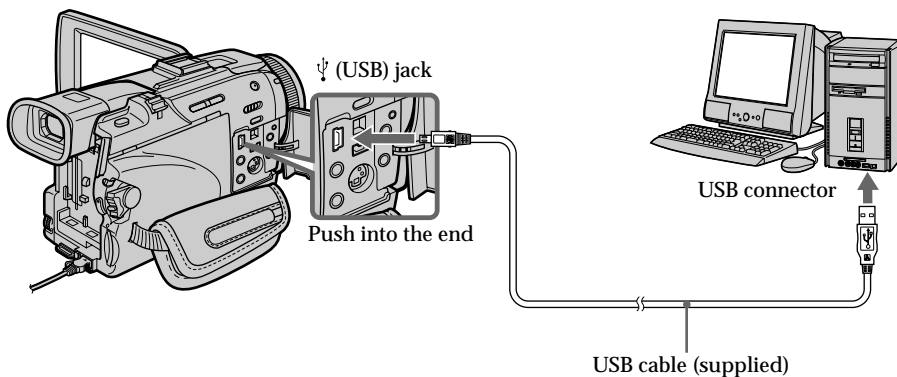
When connecting to a computer via the USB jack, complete installation of the USB driver before connecting the camcorder to the computer. If you connect the camcorder to the computer first, you will not be able to install the USB driver correctly.

For details about your computer’s connectors and editing software, contact the computer manufacturer.

Viewing images recorded on a tape

When connecting to a computer using the USB jack

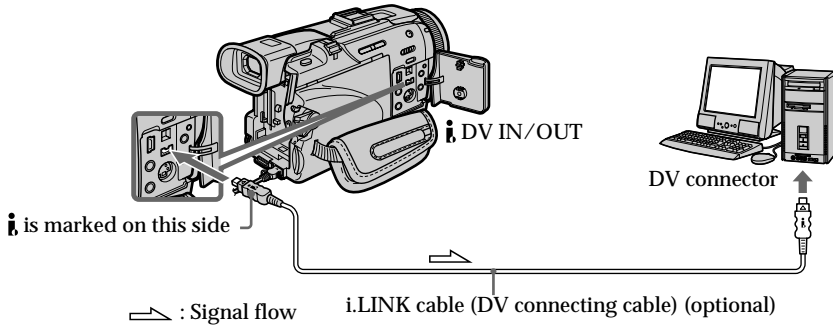
For more information, see page 177.



Viewing images on your computer – Introduction

When connecting to a computer using the DV jack

Your computer must have a DV connector and editing software installed that can read video signals.

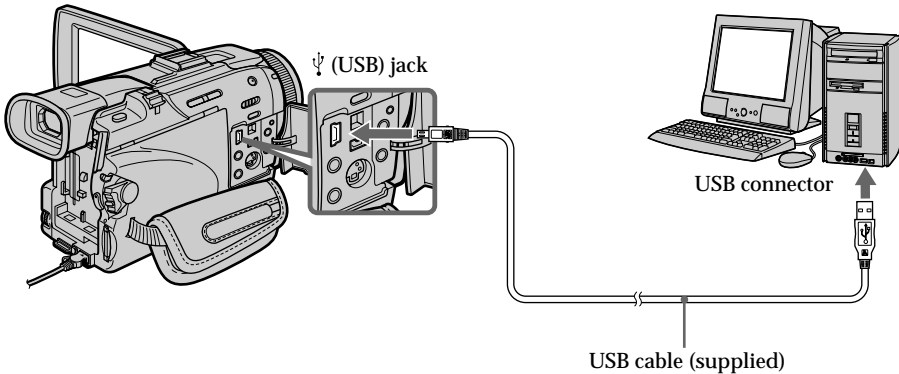


Viewing images recorded on a “Memory Stick”

When connecting to a computer using the USB jack

There are two methods of USB connection, NORMAL and PTP. The default setting is NORMAL. Here we explain how to use the camcorder with a standard USB connection (NORMAL).

See page 177 when using Windows and page 193 when using Macintosh.



You can also use a Memory Stick Reader/Writer (optional).

When connecting to a computer without a USB jack

Use an optional floppy disk adaptor for Memory Stick or a PC card adaptor for Memory Stick.

When purchasing an accessory, check its catalog beforehand for the recommended operating environment.

Notes on using your computer

“Memory Stick”

- “Memory Stick” operations on your camcorder cannot be assured if a “Memory Stick” formatted on your computer is used on your camcorder, or if the “Memory Stick” in your camcorder was formatted from your computer when the USB cable was connected.
- Do not compress the data on the “Memory Stick.” Compressed files cannot be played back on your camcorder.

Software

- Depending on your application software, the file size may increase when you open a still image file.
- When you load an image modified using retouching software from your computer to your camcorder or when you directly modify the image on your camcorder, the image format will differ so a file error indicator may appear and you may be unable to open the file.

Communications with your computer

Communications between your camcorder and your computer may not recover after recovering from Suspend, Resume, or Sleep.

Connecting your camcorder to your computer using the USB cable

- For Windows users

Complete installation of the USB driver before connecting the camcorder to the computer. If you connect the camcorder to the computer first, you will not be able to install the USB driver correctly.

When connecting to a computer using the USB cable

You must install a USB driver onto your computer in order to connect the camcorder to the computer's USB connector. The USB driver can be found on the CD-ROM supplied, along with the application software required for viewing images.

If you connect your camcorder and your computer using the USB cable, you can view pictures live from your camcorder and pictures recorded on a tape on your computer (USB streaming function).

Furthermore, if you download pictures from your camcorder to your computer, you can process or edit them in image processing software and append them to e-mail. You can view images recorded on a "Memory Stick" on your computer.

Recommended computer usage environment when connecting via USB cable and viewing tape images on the computer

OS:

Microsoft Windows 98SE, Windows Me, Windows 2000 Professional, Windows XP Home Edition or Windows XP Professional
Standard installation is required.

However, operation is not assured if the above environment is an upgraded OS.

You cannot hear sound if your computer is running Windows 98, but you can read still images.

CPU:

Minimum 500 MHz Intel Pentium III or faster (800 MHz or faster recommended)

Application:

DirectX 8.0a or later

Sound system:

16 bit stereo sound card and stereo speakers

Memory:

64 MB or more

Hard disk:

Available memory required for installation:
at least 200MB

Available hard disc memory recommended:
at least 1GB (depending on the size of the image files edited)

Display:

4 MB VRAM video card, Minimum 800 × 600 dot Hi color (16 bit color, 65 000 colors), Direct Draw display driver capability (At 800 × 600 dot or less, 256 colors and less, this product will not operate correctly.)

Others:

This product is compatible with DirectX technology, so it is necessary to install DirectX.

The USB connector must be provided as standard.

You cannot use this function in the Macintosh environment.

Recommended computer usage environment when connecting via USB cable and viewing "Memory Stick" images on the computer

OS:

Microsoft Windows 98, Windows 98SE, Windows Me, Windows 2000 Professional, Windows XP Home Edition or Windows XP Professional
Standard installation is required.

However, operation is not assured if the above environment is an upgraded OS.

CPU:

MMX Pentium 200 MHz or faster

The USB connector must be provided as standard.

Windows Media Player must be installed (to play back moving pictures).

Notes

- Operations are not guaranteed for the Windows environment if you connect two or more USB equipment to a single computer at the same time, or when using a hub.
- Some equipment may not operate depending on the type of USB equipment that is used simultaneously.
- Operations are not guaranteed for all the recommended computer environments mentioned above.
- Windows and Windows Media are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Pentium is trademark or registered trademark of Intel Corporation.
- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, "TM" and "®" are not mentioned in each case in this manual.

Connecting your camcorder to your computer using the USB cable - For Windows users

Installing the USB driver

Start the following operation without connecting the USB cable to your computer.
Connect the USB cable according to "Making the computer recognize the camcorder".

If you are using Windows 2000 Professional or Windows XP Home Edition/Professional, log in with permission of Administrators.

- (1) Turn on your computer and allow Windows to load.
- (2) Insert the supplied CD-ROM in the CD-ROM drive of your computer. The application software starts up and the title screen appears.
- (3) Move the cursor to USB Driver and click. This starts USB driver installation.



- (4) Follow the on-screen messages to install the USB driver.
- (5) Remove the CD-ROM and then restart the computer, in accordance with the instructions on the screen.

Note

If you connect the USB cable before USB driver installation is complete, the USB driver will not be properly registered. Carry out installation again in accordance with the steps on page 182.

Windows XP Home Edition/Professional users

If you go to USBCONNECT in the menu settings and select PTP, you can copy "Memory Stick" images from the camcorder onto your computer without installing the USB driver. This is ideal for simply copying images from a camcorder onto a computer. Refer to page 207 for details.

Connecting your camcorder to your computer using the USB cable - For Windows users


Making the computer recognize the camcorder

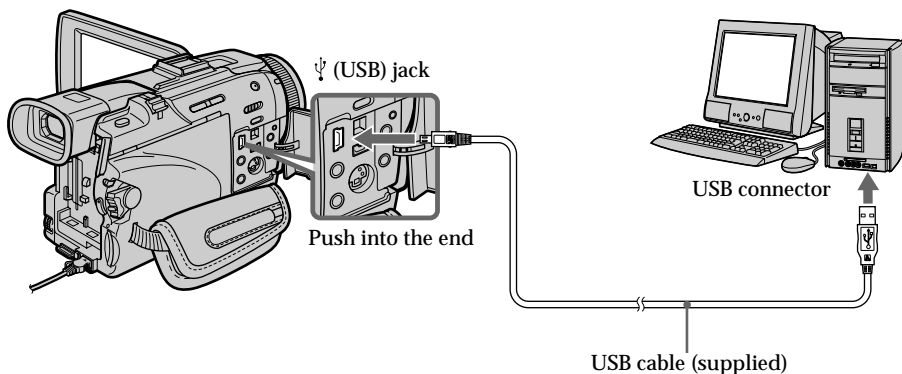
Viewing images recorded on a tape

Refer to page 181 for details on viewing “Memory Stick” images on your computer.

You need to install PIXELA ImageMixer to view images recorded on a tape on your computer. Install it from the CD-ROM supplied with your camcorder.

To install and use this software in Windows 2000 Professional, you must be authorized as Power Users or Administrators. For Windows XP Home Edition/Professional, you must be authorized as Administrators.

- (1) Turn on your computer and allow Windows to load.
If you are using your computer, close all running applications.
- (2) Insert the supplied CD-ROM into the CD-ROM drive of your computer.
The application software starts up and the title screen appears. If the title screen does not appear, double-click “My Computer” and then “ImageMixer” (CD-ROM Drive). The application software screen appears after a while.
- (3) Move the cursor to “PIXELA ImageMixer” and click.
The Install Wizard program starts up and the “Select Settings Language” screen appears.
- (4) Select the language for installation.
- (5) Follow the on-screen messages.
The installation screen disappears when installation is complete.
- (6) Click DirectX.
Follow the on-screen messages to install DirectX.
Restart your computer when the installation is completed.
- (7) Connect the AC power adaptor to your camcorder.
- (8) Set the POWER switch to VCR.
- (9) Select USB STREAM in  to ON in the menu settings (p. 207).
- (10) With the CD-ROM inserted, connect the USB jacks of the camcorder and computer using the USB cable supplied with your camcorder.
Your computer recognizes the camcorder, and the Windows Add Hardware Wizard starts.



Connecting your camcorder to your computer using the USB cable - For Windows users

- (11) Follow the on-screen messages so that the Add Hardware Wizard recognizes that the USB drivers have been installed. The Add Hardware Wizard starts three times because three different USB drivers are installed. Be sure to allow the installation to complete without interrupting it.


For Windows 2000 Professional, Windows XP Home Edition/Professional users


- (12) After the "File Needed" screen appears.

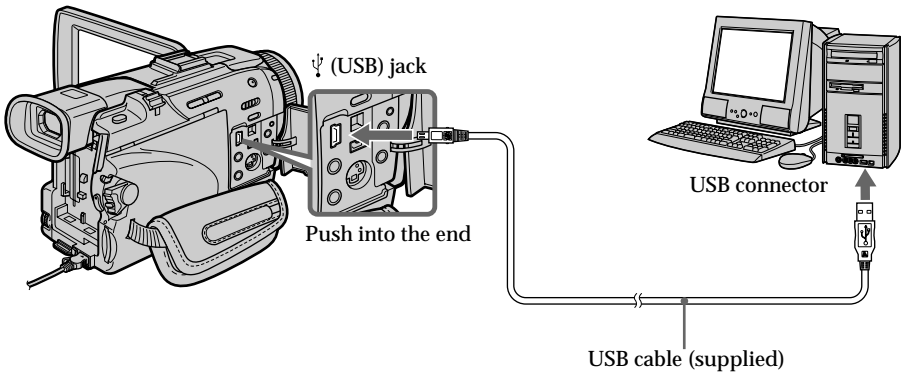
Open "Browse..." → "My Computer" → "ImageMixer" → "Sonyhcb.sys", and click "OK".

Viewing images recorded on "Memory Stick"s

Before operation

Set USBCONNECT in  to NORMAL in the menu settings. (The default setting is NORMAL.)

- (1) Insert a "Memory Stick" into your camcorder.
- (2) Connect the AC power adaptor and set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only).
- (3) Connect the  (USB) jack on your camcorder with the USB connector on your computer using the supplied USB cable.
USB MODE appears on the LCD screen of your camcorder. Your computer recognizes the camcorder, and the Add Hardware Wizard starts.



- (4) Follow the on-screen messages so that the Add Hardware Wizard recognizes that the USB drivers have been installed. The Add Hardware Wizard starts two times because two different USB drivers are installed. Be sure to allow the installation to complete without interrupting it.

You cannot install the USB driver if a "Memory Stick" is not in your camcorder. Be sure to insert a "Memory Stick" into your camcorder before installing the USB driver.

If you cannot install the USB driver

The USB driver has been registered incorrectly as your computer was connected to your camcorder before installation of the USB driver was completed. Perform the following procedure to correctly install the USB driver.

Viewing images recorded on a tape

Step 1: Uninstall the incorrect USB driver

- ① Turn on your computer and allow Windows to load.
- ② Connect the AC power adaptor, and set the POWER switch to VCR.
- ③ Connect the USB connector on your computer to the ψ (USB) jack on your camcorder using the USB cable supplied with your camcorder.
- ④ Open your computer's "Device Manager".

Windows XP Home Edition/Professional:

Select "Start" → "Control Panel" → "System" → "Hardware", and click the "Device Manager" button.

If there is no "System" inside "Pick a category" after clicking "Control Panel", click "Switch to classic view" instead.

Windows 2000 Professional:

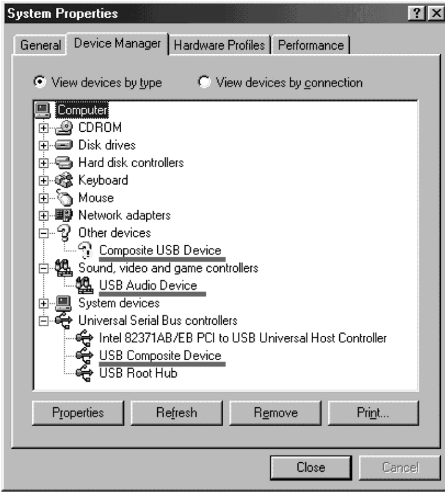
Select "My Computer" → "Control Panel" → "System" → "Hardware" tab, and click the "Device Manager" button.

Windows 98SE/Windows Me:

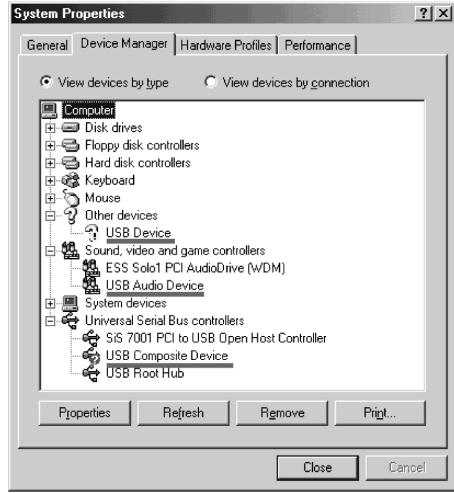
Select "My Computer" → "Control Panel" → "System", and click "Device Manager".

Connecting your camcorder to your computer using the USB cable - For Windows users

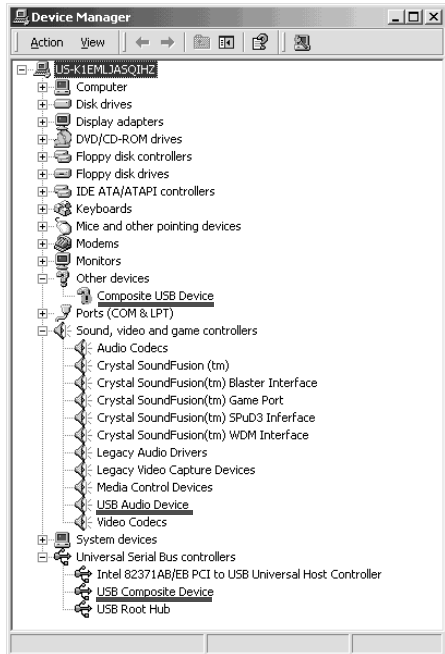
⑤ Select and delete the underlined devices below.



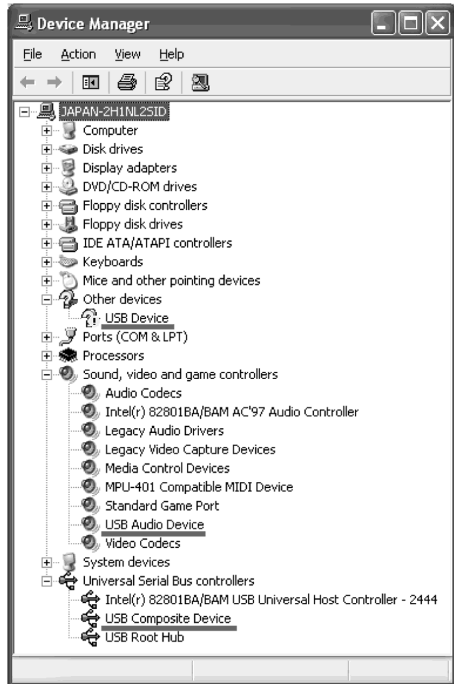
Windows 98SE



Windows Me



Windows 2000 Professional



Windows XP Home Edition/Professional

Viewing Images Using your Computer

Connecting your camcorder to your computer using the USB cable - For Windows users

- ⑥ Turn the POWER switch to OFF (CHG) on your camcorder, and then disconnect the USB cable.
- ⑦ Restart your computer.

Step 2: Install the USB driver on the supplied CD-ROM

Perform the entire procedure described in “Installing the USB driver” on page 179.

Viewing images recorded on a “Memory Stick”

Step1: Uninstall the incorrect USB driver

- ① Turn on your computer and allow Windows to load.
- ② Insert a “Memory Stick” into your camcorder.
- ③ Connect the AC power adaptor, and set the POWER switch to MEMORY/ NETWORK (DCR-TRV50 only).
- ④ Connect the USB connector on your computer to the ψ (USB) jack on your camcorder using the USB cable supplied with your camcorder.
- ⑤ Open your computer’s “Device Manager”.

Windows 2000 Professional:

Select “My Computer” → “Control Panel” → “System” → “Hardware”, and click the “Device Manager” button.

Other OS:

Select “My Computer” → “Control Panel” → “System”, and click “Device Manager”.

- ⑥ Select “Other devices”.
Select the device prefixed with the “?” mark and delete.
Ex: (?)Sony Handycam
- ⑦ Turn the POWER switch to OFF (CHG) on your camcorder, and then disconnect the USB cable.
- ⑧ Restart your computer.

Step2: Install the USB driver on the supplied CD-ROM

Perform the entire procedure described in “Installing the USB driver” on page 179.



Viewing images recorded on a tape on your computer – For Windows users

Capturing images with “PIXELA ImageMixer Ver.1.0 for Sony”

You need to install the USB driver and PIXELA ImageMixer to view images recorded on a tape on your computer (p. 179).

To install and use the software in Windows 2000 Professional, you must be authorized as Power Users or Administrators. For Windows XP Home Edition/Professional, you must be authorized as Administrators.

Viewing images recorded on a tape

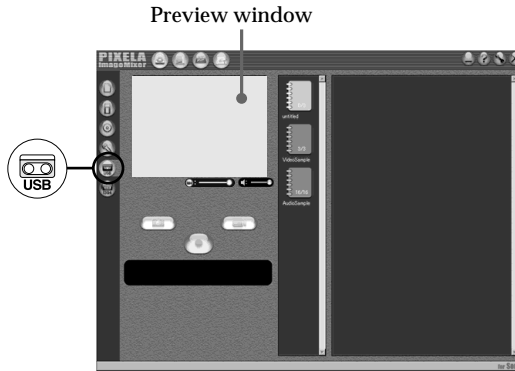
- (1) Turn on your computer and allow Windows to load.
- (2) Connect the AC power adaptor, and insert a cassette into your camcorder.
- (3) Set the POWER switch to VCR.
Select USB STREAM in  to ON in the menu settings (p. 207).
- (4) Select “Start” → “Programs” → “PIXELA” → “ImageMixer” → “PIXELA ImageMixer Ver.1.0 for Sony”.
- (5) Click  on the screen.




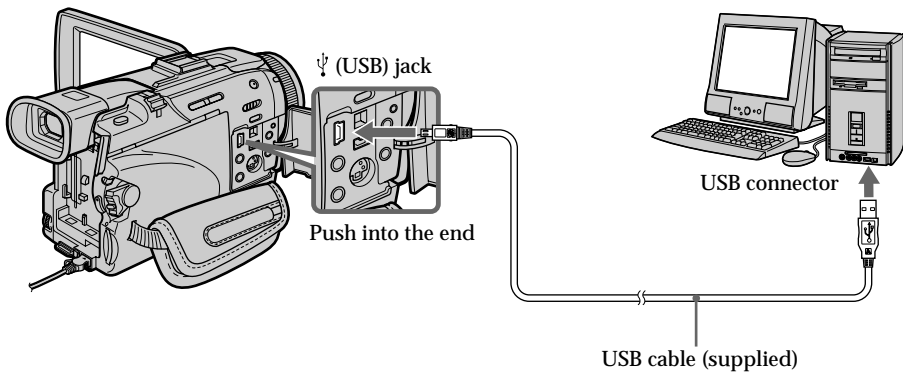
The “PIXELA ImageMixer Ver.1.0 for Sony” startup screen appears on your computer. The title screen appears.


Viewing images recorded on a tape on your computer - For Windows users

(6) Select .




(7) Connect the  (USB) jack on your camcorder with the USB connector on your computer using the supplied USB cable.



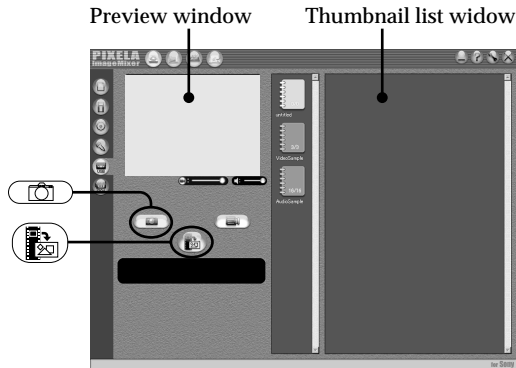
(8) Press  to start playback.
The picture from the tape appears on preview window on your computer.



Viewing images recorded on a tape on your computer - For Windows users

Viewing pictures live from your camcorder

- (1) Follow the steps 1, 2 on page 185.
- (2) Set the POWER switch to CAMERA.
Select USB STREAM in  to ON in the menu settings (p. 207).
- (3) Follow the steps 4 to 7 on pages 185, 186.
The picture from your camcorder appears on preview window on your computer.

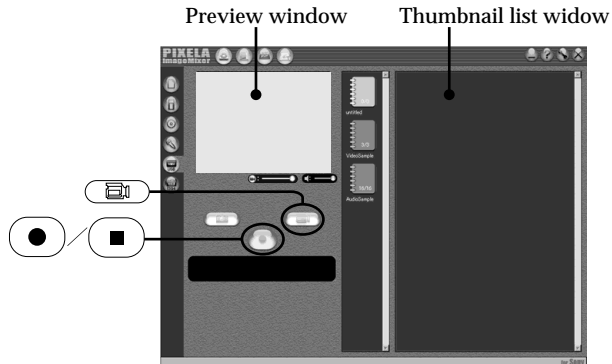
Capturing still images








- (1) Select  .
- (2) Looking at the preview window, move the cursor to  and press it at the point you want to capture.
The still image on the screen is captured.
Captured images are displayed in the thumbnail list window.

Viewing images recorded on a tape on your computer - For Windows users

Capturing moving pictures



- (1) Select .
- (2) Look at the preview window and click on  at the first scene of the movie you want to capture.  changes to .
- (3) Look at the preview window and click on  at the last scene you want to capture. The captured images appear in the thumbnail list window.

Notes

- The following may occur while using your camcorder, and are not due to any malfunction.
 - The image shakes up and down.
 - Some images are not displayed correctly due to noise, etc.
 - Images of different color systems to that of the camcorder are not displayed correctly.
- When your camcorder is in the standby with a cassette inserted, it turns off automatically after five minutes.
- We recommend setting DEMO MODE to OFF in the menu settings when your camcorder is in the standby, and no cassette is inserted.
- Indicators in the camcorder LCD screen do not appear on images that are captured into your computer.

Viewing images recorded on a tape on your computer - For Windows users

If image data cannot be transferred by the USB connection

The USB driver has been registered incorrectly as your computer was connected to your camcorder before installation of the USB driver was completed. Reinstall the USB driver following the procedure on page 182.

If any trouble occurs


Close all running applications, then restart your computer.

Carry out the following operations after quitting the application:


- Disconnect the USB cable.
- Change the POWER switch to the other position or set the POWER switch to OFF (CHG) on your camcorder.

Seeing the on-line help (operating instructions) of "PIXELA ImageMixer Ver.1.0 for Sony"

A "PIXELA ImageMixer Ver.1.0 for Sony" on-line help site is available where you can find the detailed operating method of "PIXELA ImageMixer Ver.1.0 for Sony".

- (1) Click  located in the upper-right corner of the screen.
The ImageMixer's Manual screen appears.
- (2) You can find the information you need from the list of contents.

To close on-line help

Click  at the top right of the screen.

If you have any questions about "PIXELA ImageMixer Ver.1.0 for Sony"

"ImageMixer Ver.1.0 for Sony" is a trademark of PIXELA corporation. For more information, refer to the instruction manual of the CD-ROM supplied with your camcorder.

Note on using your computer


Communications with your computer

Communications between your camcorder and your computer may not recover after recovering from Suspend, Resume, or Sleep.

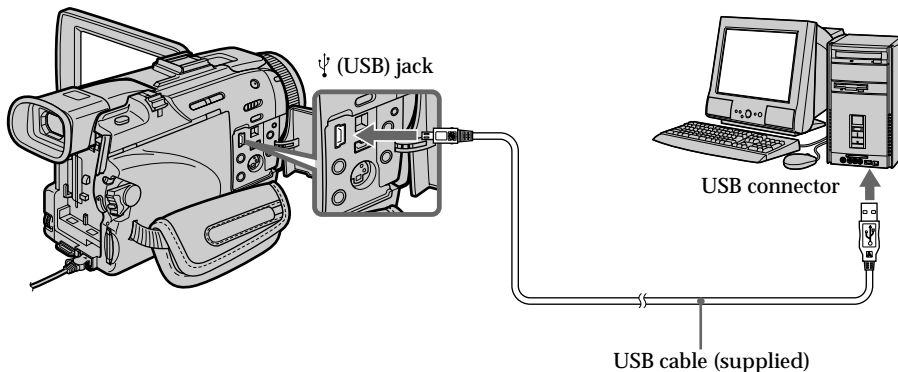
Viewing images recorded on a “Memory Stick” on your computer – For Windows users

Viewing images

Before operation

- You need to install the USB driver to view “Memory Stick” images on your computer. (p. 179)
An application such as Windows Media Player must be installed to play back moving pictures in Windows environment.
- Set USBCONNECT in  to NORMAL in the menu settings. (The default setting is NORMAL.)

- (1) Turn on your computer and allow Windows to load.
- (2) Insert a “Memory Stick” into your camcorder, and connect the AC power adaptor to your camcorder.
- (3) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only).
- (4) Connect the Ψ (USB) jack on your camcorder with the USB connector on your computer using the supplied USB cable.
USB MODE appears on the LCD screen of your camcorder.



- (5) Open “My Computer” on Windows and double-click the newly recognized drive (Example: “Removable Disk (E:)”).
The folders inside the “Memory Stick” are displayed.

Viewing images recorded on a “Memory Stick” on your computer - For Windows users

(6) Select and double-click the desired image file from the folder.

For the detailed folder and file name, see “Image file storage destinations and image files”.

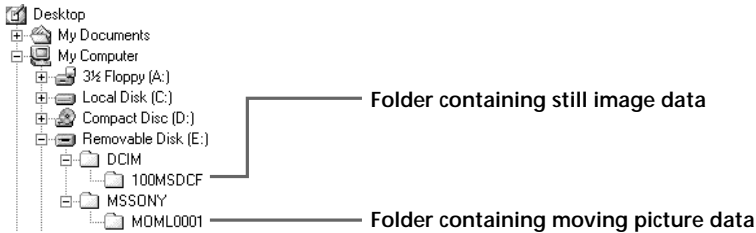
Desired file type	Double-click in this order
Still image	“Dcim” folder → “100msdcf” folder → Image file
Moving picture*	“Mssony” folder → “Moml0001” folder → Image file*

* Copying a file to the hard disk of your computer before viewing it is recommended. If you play back the file directly from the “Memory Stick,” the image and sound may break off.

Image file storage destinations and image files

Image files recorded with your camcorder are grouped in folders by recording mode. The meanings of the file names are as follows. □□□□ stands for any number within the range from 0001 to 9999.

For Windows Me users
(The drive recognizing your camcorder is [E:].)



Folder	File	Meaning
100MSDCF	DSC0□□□□.JPG	Still image file
MOML0001	MOV0□□□□.MPG	Moving picture file

Viewing images recorded on a “Memory Stick” on your computer – For Windows users

Disconnect the USB cable and eject the “Memory Stick” or set the POWER switch to OFF(CHG).

– For Windows 2000 Professional/Me, Windows XP Home Edition/Professional users

To unplug the USB cable, eject the “Memory Stick” or set the POWER switch to OFF (CHG) follow the procedure below.

- (1) Move the cursor to the “Unplug or Eject Hardware” icon on the Task Tray and click to cancel the applicable drive.
- (2) After the “Safe to remove” message appears, disconnect the USB cable and eject the “Memory Stick” or set the POWER switch to OFF(CHG).

Connecting your camcorder to your computer using the USB cable

- For Macintosh users

When connecting to a computer using the USB cable

You must install a USB driver onto your computer in order to connect the camcorder to the computer's USB connector. The USB driver can be found on the CD-ROM supplied, along with the application software required for viewing images.

Recommended computer usage environment when connecting via USB cable and viewing "Memory Stick" images on the computer

Mac OS 8.5.1/8.6/9.0/9.1/9.2 or Mac OS X (v10.0/v10.1)

Standard installation is required.

However, note that the upgrade to Mac OS 9.0/9.1 should be used for the following models.

- iMac with the Mac OS 8.6 standard installation and a slot loading type CD-ROM drive
- iBook or Power Mac G4 with the Mac OS 8.6 standard installation

The USB connector must be provided as standard.

QuickTime 3.0 or newer must be installed (to play back moving pictures).

Notes

- Operations are not guaranteed for the Macintosh environment if you connect two or more USB equipment to a single computer at the same time, or when using a hub.
- Some equipment may not operate depending on the type of USB equipment that is used simultaneously.
- Operations are not guaranteed for all the recommended computer environments mentioned above.
- Macintosh and Mac OS, QuickTime are trademarks of Apple Computer Inc.
- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, "TM" and "®" are not mentioned in each case in this manual.

Connecting your camcorder to your computer using the USB cable - For Macintosh users

Installing the USB driver

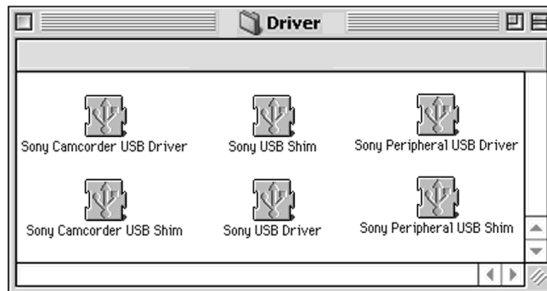
Do not connect the USB cable to your computer before installation of the USB driver is completed.

For Mac OS 8.5.1/8.6/9.0 users

- (1) Turn on your computer and allow the Mac OS to load.
- (2) Insert the supplied CD-ROM in the CD-ROM drive of your computer.
The application software screen appears.



- (3) Click the “USB Driver” to open the folder containing the six files related to “Driver.”



- (4) Select the following two files, and drag and drop them into the System Folder.
 - Sony Camcorder USB Driver
 - Sony Camcorder USB Shim
- (5) When the message appears, click “OK.”
The USB driver is installed on your computer.
- (6) Remove the CD-ROM from the computer.
- (7) Restart your computer.

For Mac OS 9.1/9.2/Mac OS X (v10.0/v10.1)

The USB driver need not be installed. Your Mac is automatically recognized as a drive just by connecting your Mac using the USB cable.

Viewing images recorded on a “Memory Stick” on your computer

- For Macintosh users

Viewing images

Before operation

You need to install the USB driver to view “Memory Stick” images on your computer. (p. 194)

QuickTime 3.0 or newer must be installed to play back moving pictures.

- (1) Turn on your computer and allow Mac OS to load.
- (2) Insert a “Memory Stick” into your camcorder, and connect the AC power adaptor to your camcorder.
- (3) Set the POWER switch to MEMORY/NETWORK (DCR-TRV50 only).
- (4) Connect the Ψ (USB) jack on your camcorder with the USB connector on your computer using the supplied USB cable.
USB MODE appears on the LCD screen of your camcorder.
- (5) Double-click the “Memory Stick” icon on the desktop.
The folders inside the “Memory Stick” are displayed.
- (6) Select and double-click the desired image file from the folder.

Desired file type	Double-click in this order
Still image	“Dcim” folder → “100msdcf” folder → Image file
Moving picture*	“Mssony” folder → “Moml0001” folder → Image file*

* Copying a file to the hard disk of your computer before viewing it is recommended. If you play back the file directly from the “Memory Stick,” the image and sound may break off.

Disconnect the USB cable and eject the “Memory Stick” or set the POWER switch to OFF(CHG)

Follow the procedure below.

- (1) Close all running applications.
Make sure that the access lamp of your camcorder is not lit.
- (2) Drag the “Memory Stick” icon into the “Trash”. Alternatively, select the “Memory Stick” icon by clicking on it, and then select “Eject disk” from the “Special” menu at the top left of the screen.
- (3) Disconnect the USB cable and eject the “Memory Stick” or the POWER switch to OFF (CHG).


For Mac OS X (v10.0) users


Shut down your computer, then disconnect the USB cable and eject the “Memory Stick” or the POWER switch to OFF (CHG).

Capturing images from an analog video unit on your computer – Signal convert function

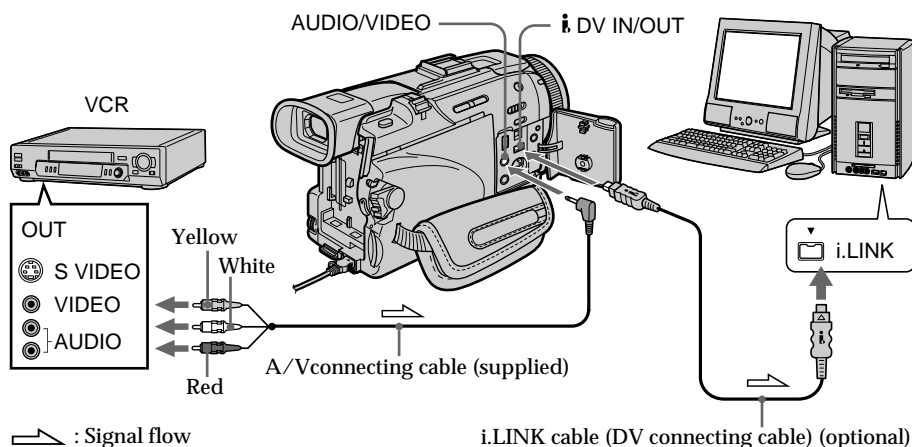
You can capture images and sound from an analog video unit connected to your computer which has the i.LINK (DV) jack connected to your camcorder.

Before operation

Set DISPLAY in  to LCD in the menu settings. (The default setting is LCD.)

- (1) Set the POWER switch to VCR.
- (2) Press MENU, then select A/V → DV OUT in  to ON with the SEL/PUSH EXEC dial (p. 202).
- (3) Start playback on the analog video unit.
- (4) Start procedures for capturing images and sound on your computer. The operation procedures depend on your computer and the software you are using.

For details on how to capture images, refer to the instruction manual of your computer and software you are using.



After capturing images and sound

Stop capturing procedures on your computer, and stop the playback on the analog video unit.

Notes

- You need to install software that supports the exchange video signals.
- Depending on the state of the video signals, the computer may not be able to output the images correctly when you convert video signals into digital video signals via your camcorder.
- You cannot record or capture the video output via your camcorder when the video tapes include copyright protection signals such as the ID-2 system.
- You can capture images and sound with an S video cable (optional) instead of the A/V connecting cable (supplied).

If your computer has a USB connector

You can connect using a USB cable, but images may not be transferred smoothly.

Accessing the network

– DCR-TRV50 only

You can access the Internet using a Bluetooth equipped device that is complied to the camcorder. Once the access is made, you can view a Web page, send/receive your e-mail, etc. This section describes only how to open the Network Menu.

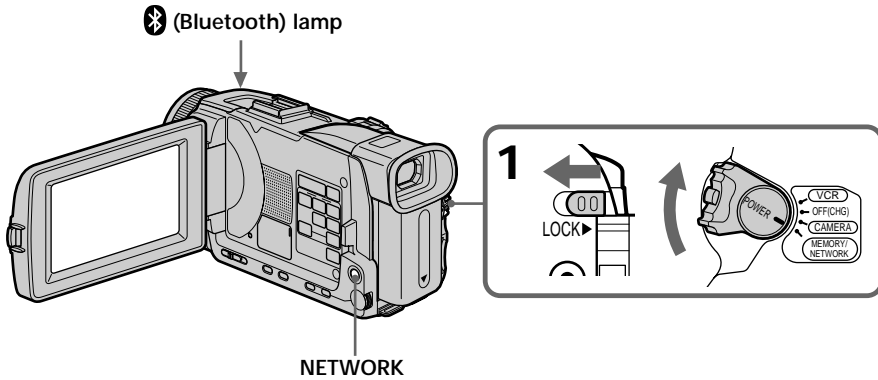
(1) Set the POWER switch to MEMORY/NETWORK.

Make sure that the LOCK switch is set to the left (unlock) position.

(2) Press NETWORK.

Ⓜ (Bluetooth) lamp lights up and Network Menu appears.

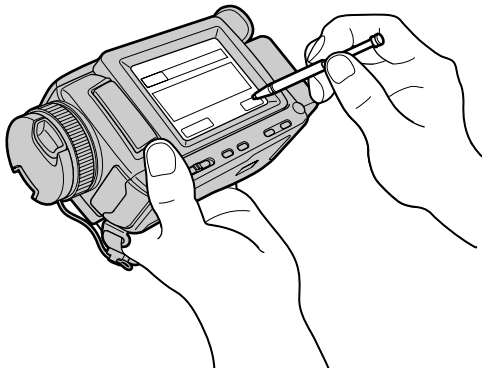
For the details, refer to the Network Function Operating Instructions supplied with your camcorder.



Accessing the network

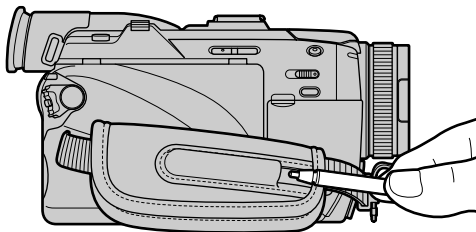
How to hold your camcorder when operating in NETWORK mode

Hold your camcorder with your hand through the grip belt to keep from dropping it. The operation buttons needed in NETWORK mode are displayed on the LCD screen. Press the buttons with the stylus supplied.



After using the stylus

Put it back in the holder. Hold the stylus correctly as shown in the illustration and insert it until it clicks.



On trademarks

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- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, “TM” and “®” are not mentioned in each case in this manual.

Note

Make sure that your camcorder is in the standby with the POWER switch set to MEMORY/NETWORK.

During using the network function

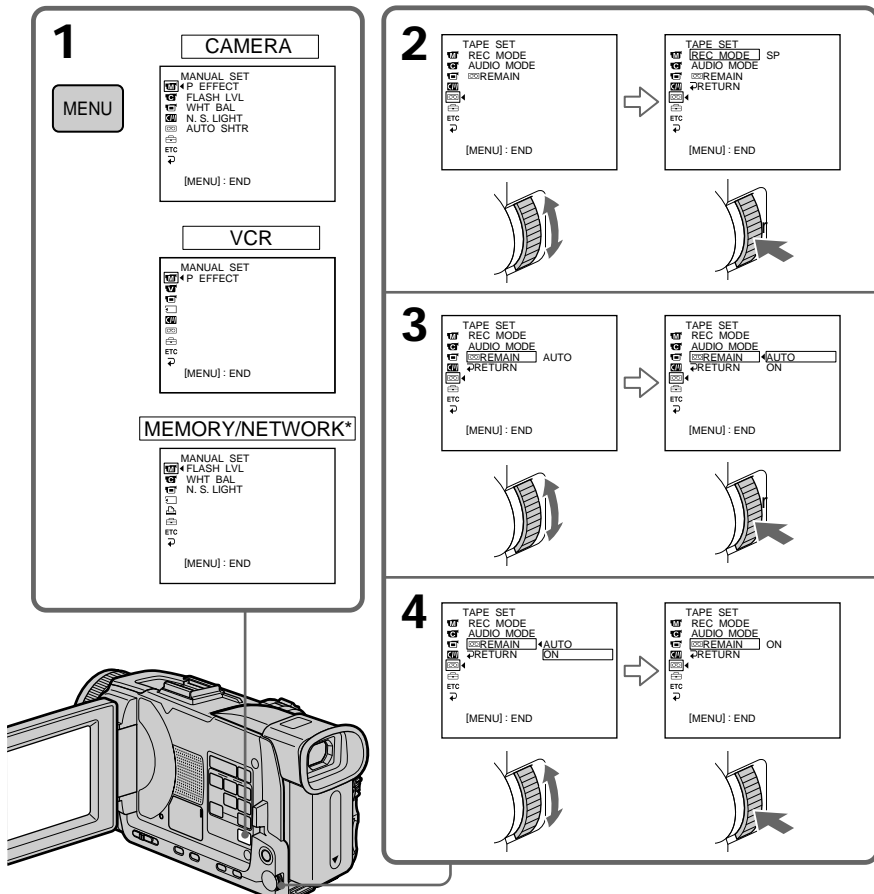
You cannot use the optional printer.

Changing the default settings with the menu

To change the mode settings in the menu settings, select the menu items with the SEL/PUSH EXEC dial. The default settings can be partially changed. First, select the icon, then the menu item and then the mode.

- (1) Set the POWER switch to CAMERA, VCR or MEMORY/NETWORK (DCR-TRV50 only), press MENU.
- (2) Turn the SEL/PUSH EXEC dial to select the desired icon, then press the dial to set.
- (3) Turn the SEL/PUSH EXEC dial to select the desired item, then press the dial to set.
- (4) Turn the SEL/PUSH EXEC dial to select the desired mode, then press the dial to set.
- (5) If you want to change other items, select \rightarrow RETURN and press the dial, then repeat steps 2 to 4.

For details, see “Selecting the mode setting of each item” (p. 200).



* DCR-TRV50 only











(continued on the following page)

Changing the default settings with the menu

To make the menu display disappear

Press MENU.


Menu items are displayed as the following icons:

-  MANUAL SET
-  CAMERA SET
-  VCR SET
-  LCD/VF SET
-  MEMORY SET
-  PRINT SET
-  CM SET
-  TAPE SET
-  SETUP MENU
-  OTHERS

Selecting the mode setting of each item ● is the default setting.

Menu items differ depending on the position of the POWER switch. The screen shows only the items you can operate at the moment.

The POWER switch is the name of the switch on the DCR-TRV50. It is referred to as MEMORY on the DCR-TRV40.

Icon/item	Mode	Meaning	POWER switch
 MANUAL SET			
P EFFECT	---	To add special effects like those in films or on the TV to images (p. 60, 75)	VCR CAMERA
FLASH LVL	HIGH	Makes the flash level higher than normal.	CAMERA MEMORY/ NETWORK
	● NORMAL	Normal setting	
	LOW	Makes the flash level lower than normal.	
WHT BAL	---	To adjust the white balance (p. 54)	CAMERA MEMORY/ NETWORK
N.S. LIGHT	● ON	To use the NightShot Light (p. 35)	CAMERA MEMORY/ NETWORK
	OFF	To cancel the NightShot Light	
AUTO SHTR	● ON	To automatically activate the electronic shutter when shooting in bright conditions	CAMERA
	OFF	To not automatically activate the electronic shutter even when shooting in bright conditions	

Note on FLASH LVL

You cannot adjust FLASH LVL if the external flash (optional) is not compatible with the flash level.