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On this “First Step Guide”

This “First Step Guide” describes the connections and settings required to use your camcorder with a computer, and the basic operation of the software on the CD-ROM.

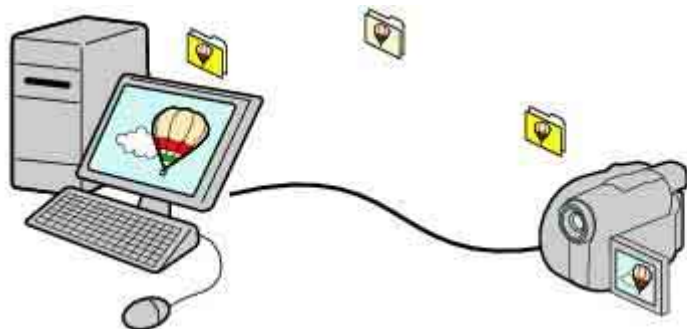
The CD-ROM includes the following software.

Picture Motion Browser: Windows computer only

You cannot use Picture Motion Browser on a Macintosh computer. You can only import the still images in the “Memory Stick Duo” with connecting your camcorder on a Macintosh computer.

Chapters 1 to 5 describe operations with a Windows computer.

When using a Macintosh computer, see “[Chapter 6: Using with a Macintosh computer.](#)”



Notes

- The screenshots in this “First Step Guide” are from Windows XP. The screens may vary depending on the operating system of the computer.
- Both an 8 cm and a 12 cm DVDs are described as a “disc” in this “First Step Guide.”


Software's on-line help

The help provides detailed operating instructions for Picture Motion Browser. Select [Help] in the [Help] menu of the software to start up the on-line help.



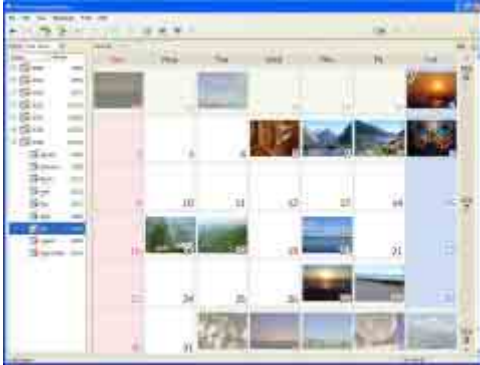
Picture Motion Browser features

Picture Motion Browser is a set of Windows applications with the following features.

If you double-click the [] (Picture Motion Browser) icon on the desktop, [Picture Motion Browser] starts up.

Notes

- The picture may not play back smoothly, depending on specifications of your computer. For details about the recommended specifications, see "[System requirements.](#)"
- You cannot use Picture Motion Browser on a Macintosh computer.



Playing a disc in AVCHD format → [Player for AVCHD <Details>](#)

You can view videos recorded on a disc in AVCHD format using your camcorder by inserting the disc into the DVD drive of your computer.

Importing videos and still images taken with your camcorder [<Details>](#)

Viewing videos and still images imported to a computer [<Details>](#)

You can manage videos and still images taken with your camcorder by date and time imported, and select videos or still images you want to view as thumbnails. These thumbnails can be enlarged and played in a slide show.

Creating a disc with HD (High Definition) picture quality [<Details>](#)

You can create an original disc with HD (High Definition) picture quality by putting together AVCHD 1080i format videos taken with your camcorder.

Creating a disc with SD (Standard Definition) picture quality [<Details>](#)

You can create an original DVD Video with SD (Standard Definition) picture quality by putting together videos and still images taken with your camcorder.

Copying a disc → [Video Disc Copier <Details>](#)

You can copy all the images on a disc taken with your camcorder.

For playing an AVCHD format disc on another DVD player, create a DVD Video disc from an AVCHD format disc. In this case, creating the disc takes some time because the format must be converted to DVD Video. Also, the videos on the disc are recorded in SD (Standard Definition) picture quality.

Preparation flow

This gives you an overview of the preparation necessary for the first time you use your camcorder with a Windows computer. (For the preparation of a Macintosh computer, click "[Chapter 6: Using with a Macintosh computer.](#)")

1 If you have not installed the supplied software, install it on your computer.

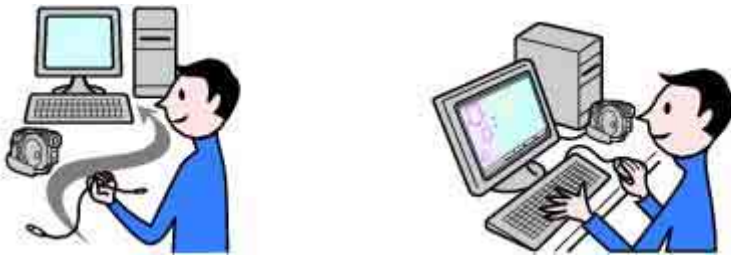
See "Step 1: Installing software." [<Details>](#)



If you already installed the software according to the Operating Guide supplied with your camcorder, you do not need to install the software again.

2 Make your computer recognize your camcorder by making a first USB connection.

See "Step 2: Connecting with a USB cable." [<Details>](#)



From hereon when you actually use your camcorder with your computer.

Step 1: Installing software

You need to install the software to your Windows computer to enjoy editing your recorded videos and still images. The installation is required only for the first time.

1 Confirm that your camcorder is not connected to the computer.

2 Turn on the computer.

Log on as Administrators for installation.

Close all applications running on the computer before installing the software.

3 Place the CD-ROM in the disc drive of your computer.

The installation screen appears.



If the screen does not appear

1 Click [Start], then click [My Computer]. (For Windows 2000, double-click [My Computer].)

2 Double-click [SONYPICTUTIL (E:)] (disc drive)*.

* Drive names (such as (E:)) may vary depending on the computer.

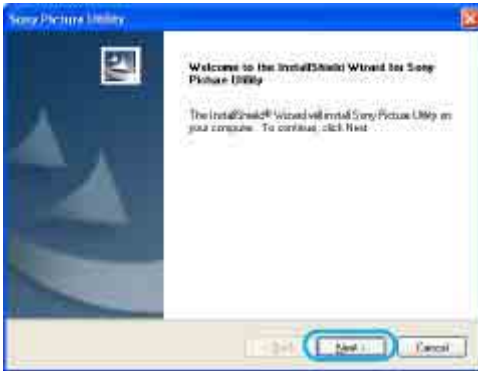
4 Click [Install].



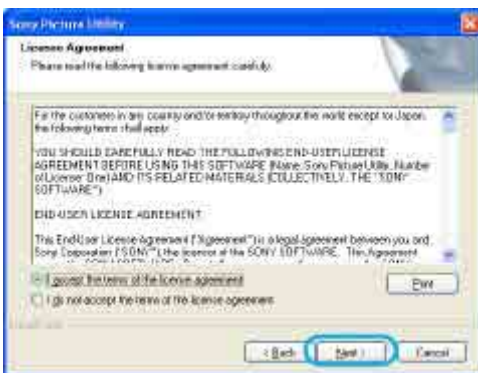
5 Select the language for the application to be installed, then click [Next].



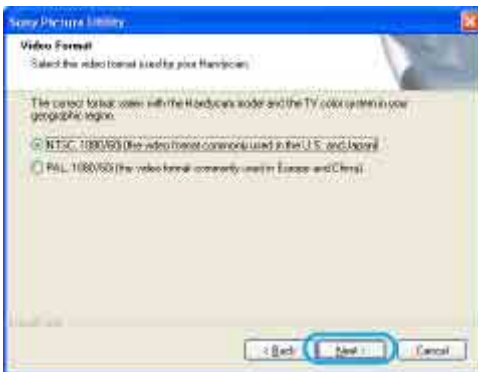
6 Click [Next].



7 Read [License Agreement], select [I accept the terms of the license agreement] when you agree, then click [Next].



8 Select your camcorder video system, then click [Next].

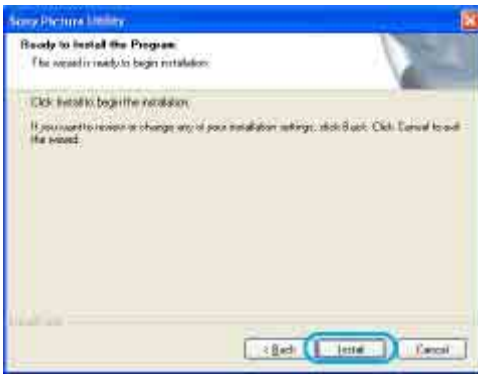


9 Select where to save the software, then click [Next].



10 Click [Install] on the [Ready to Install the Program] screen.

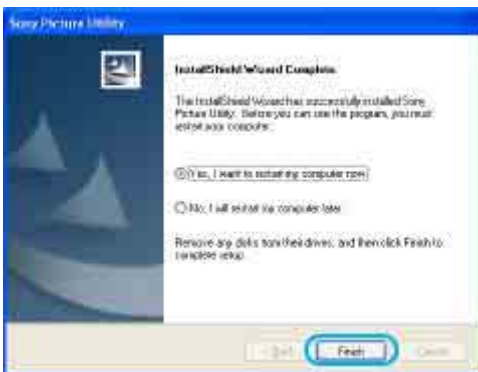
The installation of Picture Motion Browser starts.




11 The following installation screens may be displayed, depending on your operating environment. In this case, follow the instructions on the screen to install the software.

- Sonic UDF Reader --- Software required to recognize AVCHD format discs
- Windows Media Format 9 Series Runtime (Windows 2000 only) --- Software required to create DVD video discs
- Microsoft .NET Framework 1.1 --- Software required to create AVCHD format discs
- Microsoft DirectX 9.0c --- Software required for handling video

12 Make sure [Yes, I want to restart my computer now.] is selected, then click [Finish].



The computer restarts automatically.

The short-cut icons, such as [] (Picture Motion Browser), appear on the desktop.



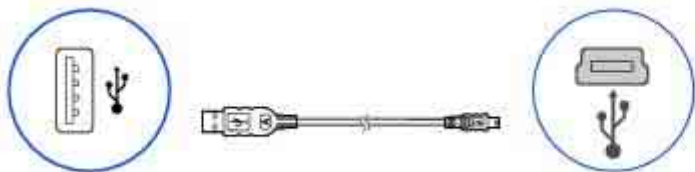
13 Remove the CD-ROM from the disc drive of your computer.

- For the information about Picture Motion Browser, visit the following URL:

Step 2: Connecting with a USB cable

The following section describes how to connect your camcorder to a computer using a USB cable and make the computer recognize your camcorder.

Connection image (USB cable and USB jack)



Before performing the following procedure, make sure you have installed Picture Motion Browser on your computer. [<Details>](#)

Note that if you do not turn on the power and make the connections in the order described in the following steps, your computer may not recognize your camcorder.

Note

- When connecting your camcorder to a computer, make sure you insert the connector in the correct direction. Do not insert the connector forcibly as it may damage the cable or your camcorder.

Tip

- Your camcorder is compatible with Hi-Speed USB (USB 2.0). You can transfer data at a faster rate using a computer compatible with Hi-Speed USB (USB 2.0). When you connect a USB interface not compatible with Hi-Speed USB (USB 2.0), the data transfer ratio will be that of USB 1.1 (USB Full-Speed).

1 Turn on the computer.

Close all applications running on the computer.

2 Connect your camcorder to a power source, and turn on your camcorder.

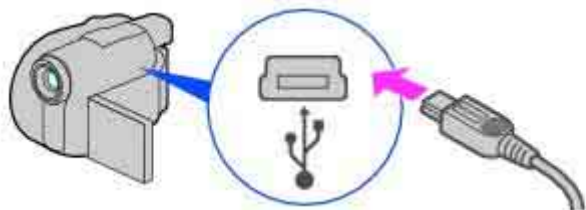
Use the AC Adaptor as the power source.

For operating the POWER switch, refer to the Operating Guide supplied with your camcorder.

3 Insert a recorded disc or a “Memory Stick Duo” into your camcorder.

4 Connect the USB cable to the USB jack on the camcorder firmly.

For the location of the USB jack, refer to the Operating Guide supplied with your camcorder.



5 Connect the other end of the USB cable to the USB port on your computer.

The [USB SELECT] screen is displayed on the screen of your camcorder.

The options you can select on the [USB SELECT] screen are [COMPUTER], [COMPUTER], and [PRINT].

Tip

- When the screen is not displayed, select the item from the menu. For selecting the menu, refer to the operating instructions supplied with your camcorder.

6 When using videos recorded on a disc, select [COMPUTER]. When using ones in a

“Memory Stick Duo,” select [COMPUTER].

When you select [COMPUTER]

The first time you connect your camcorder to a computer and select [COMPUTER], it takes some time until the computer recognizes your camcorder. When the computer recognizes your camcorder, the connection is completed and a window used to select videos to import is displayed automatically.



Note

- Depending on the status of the computer, a window that urges you to restart the computer may be displayed. In this case, follow the instructions on the screen to restart the computer.

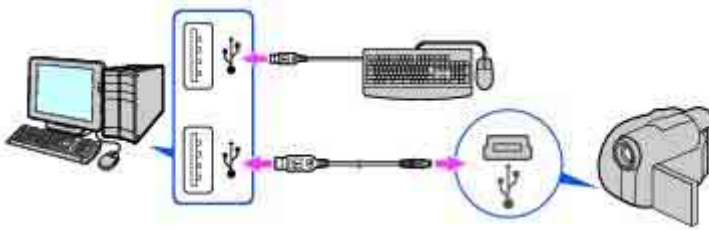
Tip

- If [Picture Motion Browser] is not displayed, see “Troubleshooting.” [<Details>](#)

Recommended USB cable connection

Connect your camcorder as shown in the following illustration.

- Connect the USB cable from your camcorder to the USB port on the computer and make sure no other USB devices are connected.
- If your computer has a USB keyboard and a USB mouse as standard equipment, leave them connected and connect the camcorder to an available USB jack with the USB cable.



Notes

- Operation is not guaranteed if you connect multiple USB devices to the computer.
- Operation is not guaranteed if you connect the USB cable to the USB port on a keyboard or USB hub.
- Make sure to connect the cable to the USB port on the computer.
- Operation is not guaranteed on all the system requirement.

To disconnect the USB cable

- 1 Touch [END] on the [COMPUTER] or [COMPUTER] screen on the LCD screen of your camcorder.
- 2 Click the [Unplug or eject hardware] icon on the task tray.



- 3 Click [Safely remove USB Mass Storage Device].



- 4 Click [OK].


5 Touch [YES] on the LCD screen of your camcorder.

6 Disconnect the USB cable from the computer.

To switch the media (disc/“Memory Stick Duo”)

Touch the button of media you want to switch to ([ COMPUTER] or [ COMPUTER]) in step 5 of “To disconnect the USB cable.” Your camcorder switch to the selected media.

Notes

- Do not disconnect the USB cable while the access lamp is lit.
- Make sure to disconnect the USB cable before turning off your camcorder.
- When connecting your camcorder to a computer in [ COMPUTER], remove the USB cable according to the correct procedure. Otherwise, files in the “Memory Stick Duo” may not be updated correctly. Also, this may cause a malfunction of the “Memory Stick Duo.”

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Viewing an AVCHD format disc on a computer


You can view videos recorded on an AVCHD format disc using your camcorder by inserting the disc into the DVD drive of your computer.

Notes

- When using the DVD drive of your computer to view a disc recorded with your camcorder, you must finalize the disc first.
- You must also finalize a DVD+RW disc before playing it with the DVD drive of your computer. Playing the disc without finalizing it may cause damage.
- The DVD drive of the computer must be able to read 8 cm DVDs.
- The picture may not play back smoothly, depending on the specifications and performances of your computer. [<Details>](#)

1 Turn on the computer.

2 Insert an AVCHD format disc into the DVD drive of your computer.

Player for AVCHD starts up automatically. If the player does not start, double-click [] (Player for AVCHD) on the desktop.

Videos recorded on the disc are displayed, scene by scene, as thumbnail images.



3 Click the thumbnail of the video you want to view.


Playback starts from beginning of the selected video.

The buttons for various operations, such as playback, volume control, and settings, appear.




To enlarge the window to full screen

Click []. The playback window switches to full-screen view.

To return to the standard screen view, click [] on the playback screen.



To change the DVD drive used for playback

Click [] and select [Settings]. The drive-selection window is displayed. Select the drive and click [OK].

Tip

- You can view videos recorded on a disc on a computer by connecting your camcorder and a computer using a USB cable. However, the picture may not play back smoothly because of problems with the transfer speed.

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Importing videos on a disc and still images on a “Memory Stick Duo” to a computer

You can import videos on a disc to a computer with connecting your camcorder and a computer.

Tip

- You can import the videos recorded with your camcorder on a disc by inserting the disc into the DVD drive of your computer. [<Details>](#)

1 Turn on the computer.

2 Connect your camcorder to a power source, and turn on your camcorder.

Use the AC Adaptor as the power source.

For operating the POWER switch, refer to the Operating Guide supplied with your camcorder.

3 Insert a recorded disc into your camcorder.

4 Connect your camcorder and a computer. [<Details>](#)

The [USB SELECT] screen is displayed on the LCD screen of your camcorder.

5 Select [COMPUTER] on the screen of your camcorder.

The window used to select videos to import is displayed.



Scenes of videos recorded on the disc are displayed, scene by scene, as thumbnail images.



You can check the contents by playing back the selected video.

The selected scene appears in the preview box in the upper right. Preview the contents using the playback control buttons.

Tip

- When the window used to select videos to import is not displayed, click [] first to display the import source selection window. Or, double-click [] (import) on the desktop.

6 Select the video you want to import.

Click the scene thumbnail to check the box. If you want to import all the scenes, click [Select All].



7 Click [Next].

The window used to select the destination folder is displayed.



You can change the destination folder for imported videos in this window.

Tip

- The default location for the destination folder is set as [My Pictures]. You can specify a folder to be imported into by clicking [Change], registering one of the Viewed folders in the displayed window.

8 Click [Import].

The import of the selected videos starts.

To import still images on a “Memory Stick Duo” to a computer

You can import the still images on a “Memory Stick Duo” to a computer with connecting your camcorder and a computer.

Tip

- You can import the still images recorded with your camcorder on a “Memory Stick Duo” by inserting the “Memory Stick Duo” into the Memory Stick slot of your computer. [<Details>](#)

- Turn on the computer.
- Connect your camcorder to a power source, and turn on your camcorder.
Use the AC Adaptor as the power source.
For operating the POWER switch, refer to the Operating Guide supplied with your camcorder.
- Connect your camcorder and a computer. [<Details>](#)
The [USB SELECT] screen is displayed on the LCD screen.
- Select [COMPUTER] on the screen of your camcorder.
The importing image window is displayed.
- Select the drive for the images to be imported from.
- Select the folder for the images to be imported to.
- Click [Import].
The import of selected images to the selected folder starts.

Calendar functions

With Picture Motion Browser, videos and still images imported from your camcorder are sorted by the date and time they were taken, and are displayed as thumbnails in calendar format. You can also select and view images from any folder or memory device.

On destination folders

The images are imported to the date folders (named with the date imported) created in the [My Pictures] folder in the default setting.

To import the images from the DVD drive/Memory Stick slot of your computer

You can import the videos and still images recorded with your camcorder on a disc or a “Memory Stick Duo” by inserting the disc/“Memory Stick Duo” into the DVD drive/Memory Stick slot of your computer.

Notes


- You must also finalize a DVD+RW disc before playing it with the DVD drive of your computer.
- The DVD drive of your computer must be able to read 8 cm DVDs.

1 Turn on the computer.

2 Insert a recorded disc/“Memory Stick Duo” into the DVD drive/Memory Stick slot of the computer.

3 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.

4 Click [].

The Import Images window is displayed.

The same screen can be displayed by selecting [Import Images] in the [File] menu.

5 Select [Handycam] or [Digital Still Camera (DCF format)], and then click [OK].

If you select [Handycam], the window used to select the video to be imported is displayed.

6 Follow steps 6 to 8 in “Importing videos on a disc and still images on a “Memory Stick Duo” to a computer” to import images.

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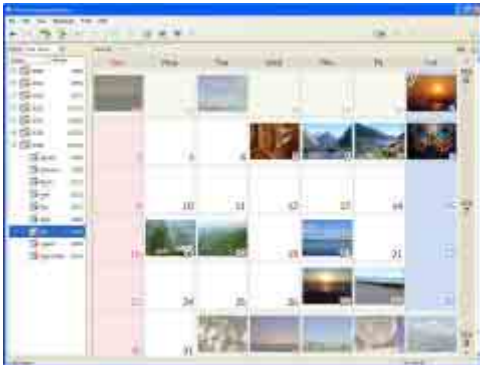
Viewing videos and still images imported to a computer

You can browse videos and still images imported to a computer, sorted by registered folder (Folder view), or sorted by the date and time they were taken (Calendar view).

1 Turn on the computer.

2 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.



3 Click [Folder] or [Calendar] on the Folder/Calendar switching tab.



When you click [Folder], a list of registered folders is displayed.

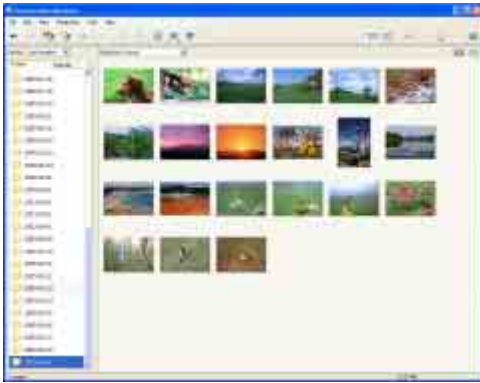
When you click [Calendar], the years and months that have videos and still images are displayed in a list on a calendar tree.

4 Click the folder, or click the year and month of videos or still images you want to view.

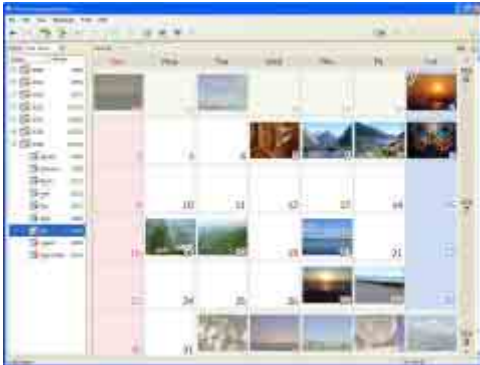
When you click the folder, thumbnails of videos or still images stored in the selected folder are listed.

When you click the year and month, a calendar is displayed. In the date box of the calendar, thumbnails of videos and still images taken on that date are displayed.

When you click the folder



When you click the month icon



Tips

- When you click a month on the yearly calendar, the calendar switches to the calendar of the selected month.
- When you click the date on a monthly calendar, the calendar switches to a time calendar for the selected date. Thumbnails of the videos and still images taken that day are displayed, arranged according to the hour they were taken.

To enlarge a video or still image

Double-click the thumbnail.

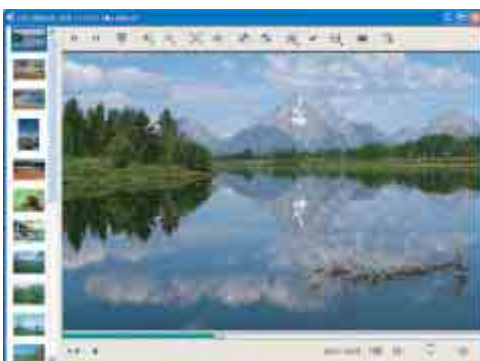
The view image window starts up and the selected video or still image is enlarged.

When you select a video, the slider and the playback control buttons appear and playback starts.

When you select a still image




When you select a video



To play images consecutively

You can select videos and still images and play them as a slide show. Here we explain the procedure for starting a slide show by selecting videos and still images in the Calendar view.

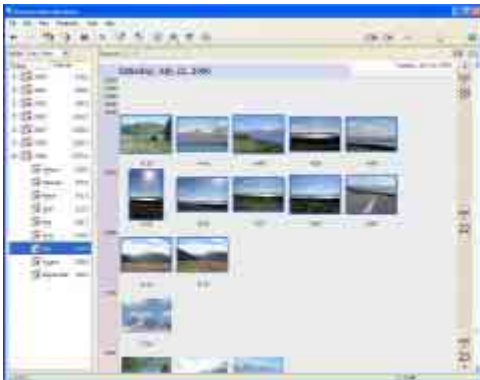
- 1 Turn on the computer.
- 2 Double-click [] (Picture Motion Browser) on the desktop.
[Picture Motion Browser] starts up.




- 3 Click [Calendar] on the Folder/Calendar switching tab.
- 4 Click the date when the video or still image you want to view in the slide show is taken.
A list of videos and still images taken on the selected date is displayed.



- 5 Select the videos or still images.
The selected videos or still images are marked with a blue frame.



- 6 Click [].
The selected video or still image is displayed full screen, and a slide show starts.
If you move the mouse while the slide show is playing, a setting bar for controlling the playback is displayed and you can control playback and adjust the volume.

Tip

- To select consecutive videos and still images in the image display area in the main window, click the first thumbnail, then press and hold down [Shift] key while you click the last thumbnail. To select two or more non-consecutive videos and still images, press and hold down [Ctrl] key while clicking thumbnails.

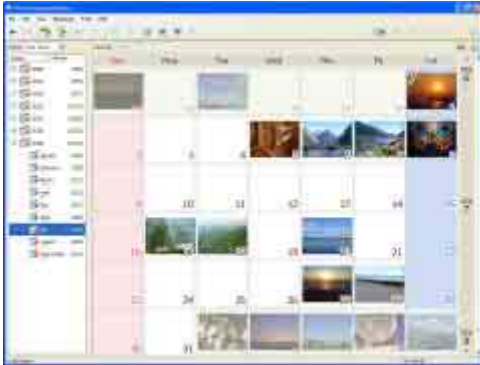
Editing videos

You can cut out only required video parts to save.

1 Turn on the computer.


2 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.



3 Click the video you want to edit in the Folder view or Calendar view. [<Details>](#)

4 Select [Video Trimming] in the [Manipulate] menu.

When you select a video in the view image window, click [] and select [Video Trimming]. The Video Trimming window is displayed.



5 Select the scene you want to set as an IN point (the beginning of the required part) using the [<||], [>||], [||>] buttons, or the slider, and click [Set IN point].

The selected scene is displayed in the thumbnail of [IN point].



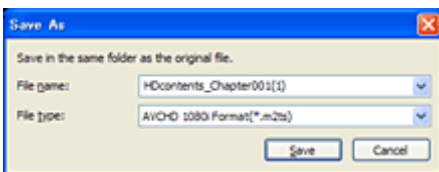
6 Select the scene you want to set as an OUT point (the end of the required part) in the same way, and click [Set OUT point].

The selected scene is displayed in the thumbnail of [OUT point].



7 After setting the points, click [Save from IN to OUT].

The Save the Video window is displayed. The edited video file will be saved with a file name different from that of the original file name.



8 Click [Save] to save the edited video.

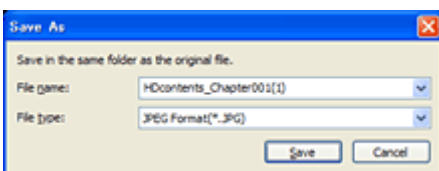
Saving takes some time. When the saving is completed, a message is displayed. Click [OK].

Note

- When you are editing a video in AVCHD 1080i format, it may take more than 10 minutes to save the edited file.

To save a scene you select in the video as a still image

Click [Save Frame] in the Video Edit window to save the current frame as a still image. The file of the still image is saved in the same folder as the original video.



Editing still images

You can edit imported still images as follows. For details about the operation, refer to the Picture Motion Browser Help.

Automatic Correction

Automatically corrects the brightness and contrast to the most suitable levels for that image.

Correcting brightness and contrast

The brightness and contrast of still images can be corrected. You can also correct only dark or light areas.

Correcting saturation

Adjusts the saturation of pictures.

Adjusting sharpness

Emphasizes the outline of pictures.

Adjusting with the tone curve

The histogram and tone curve for the channel being displayed in the drop-down list are shown. You can adjust the tone curve for each channel.

Red-eye Reduction

The use of a flash when photographing people can cause a red reflection in the eyes of subjects. You can correct and remove the red-eye portion of still images.

Trimming

You can edit still images and use only the parts of the image you want.

Resizing

You can resize still images and save them to the desired folder.

Changing the date and time stamp

You can change the date and time stamp of still images in a batch.

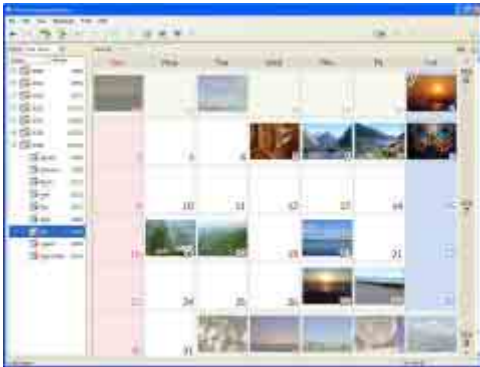
Saving videos after converting format

You can convert the format of video and audio taken with your camcorder to more versatile format.

1 Turn on the computer.

2 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.

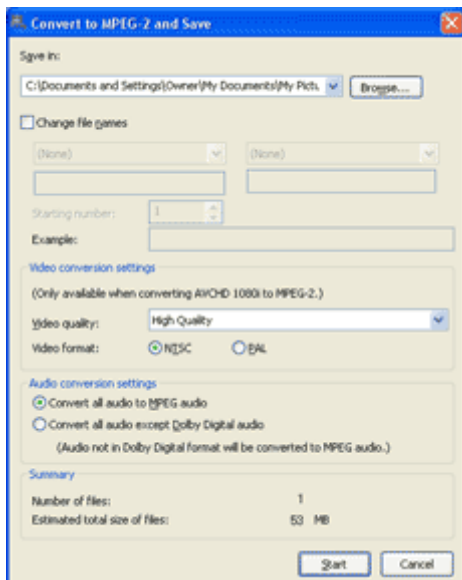


3 Click the video you want to convert in the Folder view or Calendar view. [<Details>](#)

You can select two or more videos.

4 Select [Convert to MPEG-2 and Save] in the [Manipulate] menu.

The Convert to MPEG-2 and Save window is displayed.



5 Specify where to save the video file.

You can save the video file with a different file name from that of the original video file.

Tips

- When the video format is AVCHD 1080i, it can be converted to MPEG-2 with the video conversion settings. The converted video can be used with the program which supports MPEG-2 format.
- When the audio format of the video is Dolby Digital, you can select whether to convert the audio format to MPEG audio format with the audio conversion settings. The converted video can be used with the program which supports MPEG Audio format.

6 Click [Start].

The video file is converted and saved in the specified location.

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Manipulating still images

You can manipulate imported still images as follows. For details about the operation, refer to the Picture Motion Browser Help.

Printing still images

You can print imported still images.

Note

- Video data files cannot be printed.

Sending still images by e-mail

You can start your e-mail software, attach still images to e-mail and send them via e-mail.

Notes

- MAPI must be enabled in your e-mail software for this feature to work. Refer to the user manual or help files of your e-mail software for more information about MAPI.
- Video data files cannot be sent by e-mail.

Opening with external program

You can start a commercially available software from Picture Motion Browser and view images with these programs.

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Creating a disc with HD (High Definition) picture quality

You can create an HD (High Definition) picture quality disc with an additional menu by putting together AVCHD 1080i format videos imported to your computer.

Tip

- The selected videos are written to the disc as they are. If there are unnecessary scenes in the video, edit it beforehand. [<Details>](#)

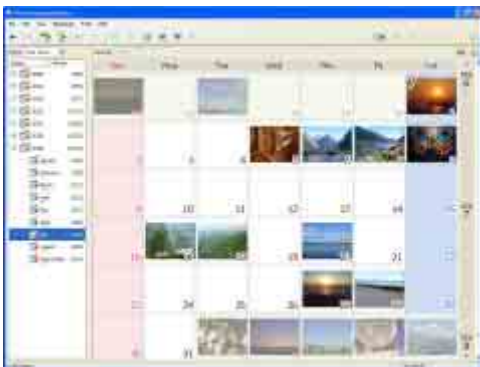
Notes

- Player for AVCHD is necessary to play the created disc in AVCHD format. Or, playback equipment that supports the AVCHD format is necessary.
- When you create an AVCHD format disc, only the videos in AVCHD 1080i format can be recorded on that disc.

1 Turn on the computer.

2 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.



3 Click the AVCHD 1080i format videos you want to write to the disc in the Folder view or Calendar view. [<Details>](#)

AVCHD 1080i format videos are marked with [].

You can select two or more videos, or select videos by folder or date.

4 Select [AVCHD Creation] in the [Manipulate] menu.

The window used to select videos is displayed.



5 Confirm the videos to be written to the disc.

Videos with checkmarks at the top right are written to the disc in the date and time stamp order. If you want to write all the videos, click [Select All].

Tip

- To add more videos to the previously selected videos, select the video you want to add in the image display area of the main window and drag and drop onto this window.

6 Click [Start].

The videos are written to the disc.

Tip

- You can choose to create more copies of the same disc after writing to the disc is completed.

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Creating a disc with SD (Standard Definition) picture quality

You can create a DVD Video with SD (Standard Definition) picture quality with a DVD menu by putting together videos and still images imported to your computer.

Tip

- The selected videos are written to the disc as they are. If there are unnecessary scenes in the video, edit it beforehand. [<Details>](#)

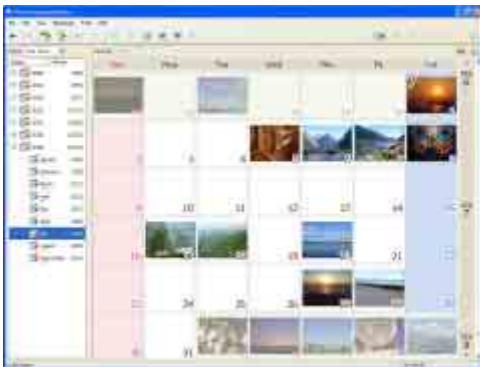
Note

- You can select AVCHD 1080i format video to record with SD (Standard Definition) picture quality. In this case, creating a DVD Video takes some time, due to the format conversion required.

1 Turn on the computer.

2 Double-click [] (Picture Motion Browser) on the desktop.

[Picture Motion Browser] starts up.



3 Click the videos and still images you want to write to the disc in the Folder view or Calendar view. [<Details>](#)

You can select two or more videos and still images, or select videos and still images by folder or date.

4 Select [DVD Creation] in the [Manipulate] menu.

The window used to select videos and still images is displayed.



5 Confirm the videos and still images to write to the disc.

Videos and still images with checkmarks at the top right are written to the disc in the date and time stamp order. If you want to write all the videos and still images, click [Select All] .

Tip

- To add videos and still images to the previously selected ones, select the videos or still images you want to add in the image display area on the main window and drag and drop onto this window.

6 Click [Next].

Menu selection window of the disc is displayed.



7 Select menu design and a title creation method, and enter the disc name.

Image of DVD video menu to create is displayed.

Tips

- Selecting [Each Video File] for the title making method gathers all still images automatically in one title.
- Clicking [Font] lets you select the text color of the disc name and title, etc.
- Clicking [Preview] lets you check the completion image of the DVD video to create.
- Clicking [Settings...] lets you set the various operations that take place upon the first play of a disc, video quality, and display time for each still image in slide show.

8 Click [Start].

The videos and still images are written to the disc.

Tip

- You can choose to create more copies of the same disc after writing to the disc is completed.

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Copying a disc

You can copy the images recorded on a disc to another 8 cm or 12 cm disc.

You can also back up a disc and create a disc playable on other DVD players from an AVCHD format disc by converting it to DVD Video.

This procedure describes how to copy the images recorded on a -RW (8 cm) disc in your camcorder to a -R (12 cm) disc in the DVD drive of your computer.

1 Turn on the computer.

2 Connect your camcorder to a power source, then turn on your camcorder.

Use the AC Adaptor as the power source.

For operating the POWER switch, refer to the Operating Guide supplied with your camcorder.

3 Insert a recorded disc into your camcorder.

4 Connect your camcorder and a computer. [<Details>](#)

The [USB SELECT] screen is displayed on the LCD screen.

5 Select [COMPUTER] on the screen of your camcorder.

6 Insert a blank DVD disc into the DVD drive of your computer.

7 Double-click [Video Disc Copier] on the desktop.

[Video Disc Copier] starts up. Copy method selection window is displayed.



8 Click [Copy the disc].

Disc copy window is displayed.



9 Select your camcorder for [Source:] and the DVD drive of your computer for [Copy to:].

The status of the drive and disc is displayed. Depending on the status, copying cannot start. Follow the instruction to change the disc or check the drive or your camcorder. Obtaining information from a disc in your camcorder takes time. Wait until the disc information is displayed in the window.

10 When preparations for copying are completed, click [Start].

Disc copy starts.

Tip

- You can choose to create one more same disc after writing.

To change the location for temporary files and the writing speed

On the Disc copy window, click [Settings...].

Select [Manually select a writing speed before writing to the disc] and click [OK] to specify the writing speed each time, before writing starts.

Tip

- When you copy a -RW (8 cm) disc to a -R (12 cm) disc, approximately 1.5 GB of free space is needed on your hard disk for temporary files. Depending on the capacity of the source disc, the free space required varies.

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Types of discs you can use

This section explains about discs you can use for backing up a disc or creating a disc playable on other DVD players.

The types of discs you can use (●) for copying vary by the disc type recorded with your camcorder and the disc type used to create the disc you want to copy. For details, refer to the charts below.

When a disc is recorded with HD (High Definition) picture quality (Copy)

		Destination				
		-R (8 cm/12 cm)	-RW (8 cm/12 cm)	+RW (8 cm/12 cm)	+R (12 cm)	+R DL (8 cm/12 cm)
Source	-R (8 cm)	● / ●	● / ●	● / ●	●	● / ●
	-RW (8 cm)	● / ●	● / ●	● / ●	●	● / ●
	+RW (8 cm)	● / ●	● / ●	● / ●	●	● / ●
	+R DL (8 cm)	— / ●	— / ●	— / ●	●	● / ●

When a disc is recorded with HD (High Definition) picture quality (Convert to DVD Video)

		Destination				
		-R (8 cm/12 cm)	-RW (8 cm/12 cm)	+RW (8 cm/12 cm)	+R (12 cm)	+R DL (8 cm/12 cm)
Source	-R (8 cm)	● / ●	● / ●	— / —	●	● / ●
	-RW (8 cm)	● / ●	● / ●	— / —	●	● / ●
	+RW (8 cm)	● / ●	● / ●	— / —	●	● / ●
	+R DL (8 cm)	— / ●	— / ●	— / —	●	● / ●

When a disc is recorded with SD (Standard Definition) picture quality

		Destination				
		-R (8 cm/12 cm)	-RW (8 cm/12 cm)	+R (12 cm)	+R DL (8 cm/12 cm)	+RW (8 cm/12 cm)
Source	-R (8 cm)	● / ●	● / ●	●	— / ●	— / —
	-RW VIDEO mode (8 cm)	● / ●	● / ●	●	— / ●	— / —
	+R DL (8 cm)	— / ●	— / ●	●	● / ●	— / —
	-RW VR mode (8 cm)	— / —	● / ●	—	— / —	— / —
	+RW (8 cm)	— / —	— / —	—	— / —	● / ●

Notes

- You cannot copy from 12 cm disc to 8 cm disc.
- When a 12 cm disc is copied to a 12 cm disc, a +R DL 12 cm disc can be the destination only for a +R DL 12 cm original disc.
- DVD-R DL is not supported.
- To copy a disc recorded using other than a DVD+RW disc, the disc must be finalized.

This “First Step Guide” describes how to connect your camcorder to a Macintosh computer and how to import images from the inserted “Memory Stick Duo.” (Picture Motion Browser is not used on a Macintosh computer.)

Connecting your camcorder and a Macintosh computer with a USB cable

Note

- The computer may not recognize your camcorder if you connect them with the USB cable before turning on your camcorder.

1 Insert a “Memory Stick Duo” into your camcorder.

2 Connect your camcorder to a power source, then turn on your camcorder.

Use the AC Adaptor as the power source.

For operating the POWER switch, refer to the Operating Guide supplied with your camcorder.

3 Connect the USB cable to the USB jack on the camcorder firmly.

For the location of the USB jack, refer to the Operating Guide supplied with your camcorder.

4 Connect the other end of the USB cable to the USB port on your computer.

The [USB SELECT] screen is displayed on the screen of your camcorder.

Tip

- When the screen is not displayed, select the item from the menu. For selecting the menu, refer to the operating instructions supplied with your camcorder.


Note

- When connecting your camcorder to a computer, make sure you insert the connector in the correct direction. Do not insert the connector forcibly as it may damage the cable or the camcorder.

5 Select [COMPUTER] on the LCD of your camcorder.

A drive icon appears on the desktop.

To disconnect the USB cable / To turn off the camcorder / To eject the “Memory Stick Duo”

1 Touch [END] on the [ COMPUTER] screen on the LCD screen of your camcorder.

2 Quit all applications running on the computer.

3 Drag and drop the drive icon on the desktop onto the [Trash] icon.

4 Touch [YES] on the LCD screen of your camcorder.

5 Disconnect the USB cable from your camcorder and computer.

Notes

- Make sure to disconnect the USB cable before turning off your camcorder.
- If you are using Mac OS X, turn off the computer before disconnecting the USB cable and ejecting the “Memory Stick Duo.”

Copying still images from a “Memory Stick Duo”

- 1 Connect your camcorder to a computer via a USB cable. [<Details>](#)
- 2 Double-click the drive icon.
- 3 Drag and drop the desired still image file onto the hard disk icon.

Note

- For details on the “Memory Stick Duo” that you can use with the camcorder, refer to the operating instructions supplied with your camcorder.

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Symptoms

[When using the videos on a disc, a computer does not recognize your camcorder.](#)

[Cannot use the supplied software, Picture Motion Browser on the Macintosh computer.](#)

[Cannot view the videos on a disc in your camcorder with a computer.](#)

[You cannot view the still images recorded on a “Memory Stick Duo” on the computer.](#)

[The “Memory Stick” icon \(\[Removable Disk\]\) does not appear on the computer screen.](#)

[Picture Motion Browser does not function correctly.](#)

[An error message appears while operating Picture Motion Browser.](#)

[The video or still image or sound of your camcorder is not played on your computer correctly.](#)

[Cannot write from your computer to a disc in your camcorder.](#)

[The file transferred from the computer is not written to the “Memory Stick Duo” in your camcorder.](#)

[The playback screen is paused or distorted.](#)

[A disc cannot be played back.](#)

[The actual displayed screen or message is different from that shown in this “First Step Guide.”](#)

Cause and/or corrective actions


When using the videos on a disc, a computer does not recognize your camcorder.

- Install Picture Motion Browser. [<Details>](#)
- Disconnect the USB device other than the keyboard, the mouse, and the camcorder from the computer.
- Disconnect the cable from the computer and camcorder, restart the computer, then connect them again correctly. [<Details>](#)


Cannot use the supplied software, Picture Motion Browser on the Macintosh computer.

- You cannot use Picture Motion Browser on a Macintosh. [<Details>](#)


Cannot view the videos on a disc in your camcorder with a computer.

- Make sure you insert the connector in the correct direction, then connect the USB cable to the USB jack on your camcorder firmly.
- Select [COMPUTER], then [COMPUTER] in the menu settings of your camcorder. For selecting the menu, refer to the operating instructions supplied with your camcorder.
- Disconnect the USB device other than the keyboard, the mouse, and the camcorder from the computer. [<Details>](#)

You cannot view the still images recorded on a “Memory Stick Duo” on the computer.

- Insert the “Memory Stick Duo” firmly.
- Select [COMPUTER], then [COMPUTER] in the menu settings of your camcorder. For selecting the menu, refer to the operating instructions supplied with your camcorder.
- The computer does not recognize the “Memory Stick Duo” during camcorder operation such as disc playback or editing.
 - Finish camcorder operation before connecting the camcorder to the computer.

The “Memory Stick” icon ([Removable Disk]) does not appear on the computer screen.

- Insert a “Memory Stick Duo” into your camcorder.
- Disconnect the USB device other than the keyboard, the mouse, and the camcorder from the computer. [<Details>](#)
- Select [COMPUTER], then [COMPUTER] in the menu settings of your camcorder. For selecting the menu, refer to the operating instructions supplied with your camcorder.
- The computer does not recognize the “Memory Stick Duo” during camcorder operation such as disc playback or editing.
 - Finish camcorder operation before connecting the camcorder to the computer.

Picture Motion Browser does not function correctly.

- Close Picture Motion Browser, then restart the Windows computer.

An error message appears while operating Picture Motion Browser.

- Close Picture Motion Browser on your Windows computer first, then set the POWER switch on your camcorder to another mode.

The video or still image or sound of your camcorder is not played on your computer correctly.

- If your camcorder is connect to a computer that does not support Hi-speed USB (USB2.0), the video, still image or sound may not be played back correctly. The video, still image or sound copied to your computer is not affected.
- Video playback or sound may stop temporarily depending on your computer. The video or sound copied to your computer is not affected.

Cannot write from your computer to a disc in your camcorder.

- Use recommended discs. For details, refer to the Operating Guide supplied with your camcorder.
- You cannot write to the DVD drive of your camcorder from software other than Picture Motion Browser.

The file transferred from the computer is not written to the “Memory Stick Duo” in your camcorder.

- The USB cable (supplied) is not removed with the right procedure. Connect your camcorder to the computer again and transfer the data. [<Details>](#)

The playback screen is paused or distorted.

- If the recorded disc is played back in your camcorder connected to a computer, the picture may not play back smoothly, depending on the transfer speed. Insert the disc into the DVD drive of your computer for smooth playback.
- Check the recommended computer environment required to play videos recorded with HD (High Definition) picture quality. [<Details>](#)
- Close all application except Player for AVCHD on a computer.

A disc cannot be played back.

- Use the supplied Player for AVCHD software to play a disc recorded with HD (High Definition) picture quality. A standard disc player cannot be used. If other disc player software starts up when a disc recorded with HD (High Definition) picture quality is inserted in the computer, close that software.

The actual displayed screen or message is different from that shown in this “First Step Guide.”

- The screen or message may be different.

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System requirements

For Windows users

When using Picture Motion Browser

- **OS:** Microsoft Windows 2000 Professional, Windows XP Home Edition or Windows XP Professional Standard installation is required.
Operation is not assured if the above OS has been upgraded or in a multi-boot environment.
- **CPU:** Intel Pentium 4 2.8 GHz CPU or faster (Pentium 4 3.6 GHz or faster is recommended.)
For processing SD (Standard Definition) picture quality content only, an Intel Pentium III 1 GHz or faster is necessary.
- **Application:** DirectX 9.0c or later (This product is based on DirectX technology. It is necessary to have DirectX installed.)
.Net Framework 1.1 (installed with Picture Motion Browser, depending on your computer environment)
- **Sound system:** Direct Sound compatible sound card
- **Memory:** 512 MB or more (1 GB or more is recommended.)
For processing SD (Standard Definition) picture quality content only, 256 MB of memory or more is necessary.
- **Hard disk:** Disc volume required for installation: Approximately 800 MB (10 GB or more may be necessary when creating AVCHD format discs.)
- **Display:** DirectX 7 or later-compatible video card, Minimum 1024 X 768 dots, High Color (16 bit color)
- **Others:** USB port (this must be provided as standard, Hi-Speed USB (USB 2.0 compatible) is recommended), optical disc drive (CD-ROM drive is necessary for installation)

When playing pictures recorded on a “Memory Stick Duo” on a computer

- **OS:** Microsoft Windows 2000 Professional, Windows XP Home Edition or Windows XP Professional Standard installation is required.
Operation is not assured if the above OS has been upgraded.
- **CPU:** MMX Pentium 200 MHz or faster
- **Others:** USB port (this must be provided as standard)
- If your computer has a Memory Stick slot, insert the “Memory Stick Duo” on which pictures are recorded into the Memory Stick Duo Adaptor, then insert it into the Memory Stick slot on your computer to copy still images to the computer.


For Macintosh users

When only copying pictures recorded on a “Memory Stick Duo” on a computer

- OS: Mac OS 9.1/9.2 or Mac OS X (v 10.1/v 10.2/v 10.3/v 10.4)
- Other: USB port (this must be provided as standard)

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Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page [`http://HTTP.CS.Berkeley.EDU/~jhauser/arithmic/SoftFloat.html`](http://HTTP.CS.Berkeley.EDU/~jhauser/arithmic/SoftFloat.html).

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Resizing

S

Saturation

Sharpness

Slide show

T

Tone Curve

Trimming

U

USB cable

USB connection (Macintosh)

USB connection (Windows)

V

Video Disc Copier

W

Windows