

Canon

DV-PC RECORDER Version 1

Software Instruction Manual

E



This software is for use with Windows® XP only.

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Contents

Read Carefully Before Using	2
Read This First	6
Canon camcorder compatible with DV-PC Recorder	6
Required Accessories	6
System Requirements	7
Installing the Software	8
Connecting the Camcorder to the Computer	10
Starting DV-PC Recorder	11
Main Panel	12
System Menu	13
Camcorder Screen Display	14
Setting Video Folder, File Name and Recording Mode	15
Performance Check	18
Recording on the Hard Disk	20
Recording Panel	22
Frame Dropping	23
Recording History	24
Reviewing the Recorded Picture	25
Playback Panel	25
Time Slider	26
Uninstalling the Software	28
Troubleshooting	29

Read This First

DV-PC Recorder is a software that enables you to record on the tape in the camcorder and on the computer hard disk by connecting a camcorder equipped with the DV CONTROL function to a computer using a IEEE1394 (DV) cable. This allows you to start editing the video on the computer right after recording (optional editing software required).

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Canon camcorder compatible with DV-PC Recorder

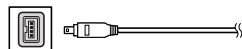
Following camcorder can be used with DV-PC Recorder.

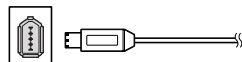
XL2

Required Accessories

- Canon digital camcorder compatible with DV-PC Recorder
- IEEE1394 (DV) Cable

Check the manual of your computer for which type of cable to use:

4-pin: 

6-pin: 

System Requirements

OS	Microsoft Windows XP Home Edition or Professional (installation of Service Pack 1 recommended) Proper operation is not guaranteed on Windows XP that has been upgraded from a previous version.
CPU	Pentium III 800 MHz or more (Pentium 4 or later recommended)
RAM	128 MB or more (256 MB or more recommended)
Free Hard Disk Space	For installation Free Hard Disk Space: 30 MB or more For video recording Free Hard Disk Space: 1 GB or more (1 minute of video recording uses 0.22 GB) File System: NTFS Recordings cannot be made on FAT32 or FAT16 formatted hard disks.
Display	800 × 600 pixels (1024 × 768 pixels or more recommended)/High Color (16 bit) or better
Interface	IEEE1394 (OHCI compliant)



- Proper operation is not guaranteed on a dual CPU PC or on a user-built PC.
- Proper operation is not guaranteed on any particular system, even if it meets the requirements outlined above.
- Recordings cannot be saved on a hard disk recognized as [Removable disk].
- This software will not operate properly if repeater or other IEEE1394 devices are connected to the computer's IEEE1394 (DV) terminal.
- This software will not operate properly if more than one camcorder is connected to the computer.
- Proper operation is not guaranteed for recording on compressed drives.
- This software can also be used with recordings in 24p mode (NTSC only). Use an editing software that supports the 24p mode.

Installing the Software

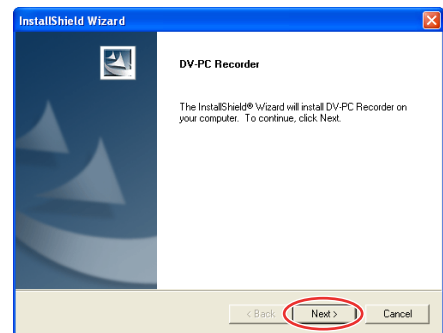


- **Do not connect the camcorder to the computer when installing DV-PC Recorder.**
- You need to log in as an administrator before installing the software.
- Close any programs that are running before installing the software.

1. Start the computer and download the DV-PC Recorder installer from Canon's web site.

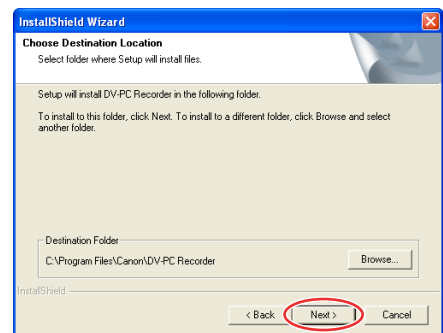
Download the DV-PC Recorder following the instructions on the web site and double-click the downloaded installer.

2. Click [Next].



3. Read the license agreement and click [Yes].

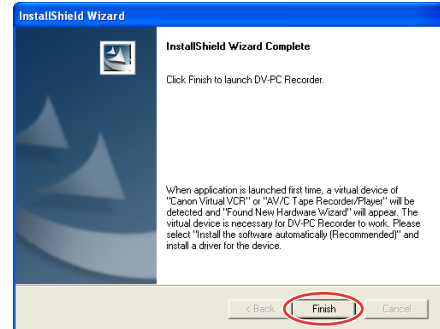
4. Confirm the target folder and click [Next].



- If a warning message regarding the installation appears, click [Continue Anyway].
- If a dialog appears asking you whether you wish to create a shortcut of DV-PC Recorder, click [Yes].

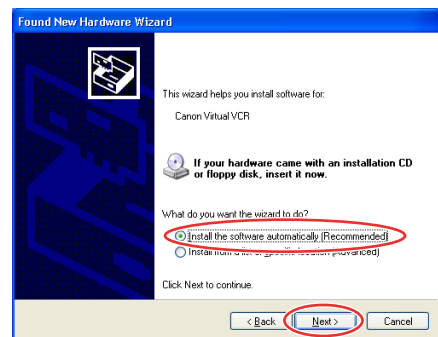
Installing the Software

5. Click [Finish].



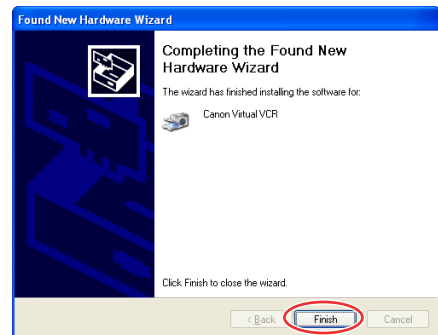
- Installation is complete and DV-PC Recorder starts automatically.
- A dedicated driver will be installed automatically.

6. If the [Found New Hardware Wizard] window appears, select [Install the software automatically (Recommended)] and click [Next].



If a warning message regarding the installation appears, click [Continue Anyway].

7. Click [Finish].



Installation of the driver is complete.

Connecting the Camcorder to the Computer

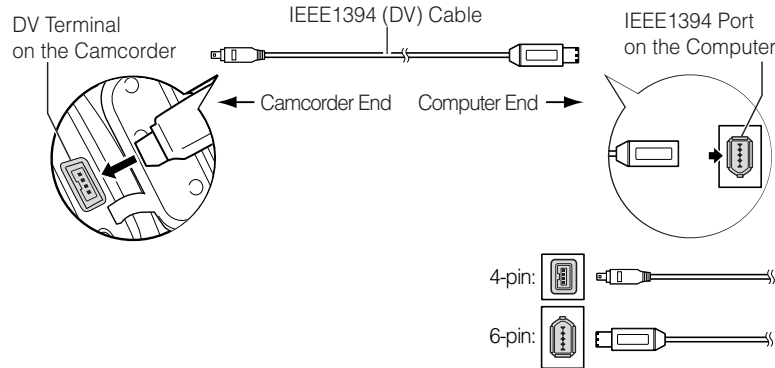
1. Set the camcorder to a recording program.

2. Activate the DV CONTROL function.

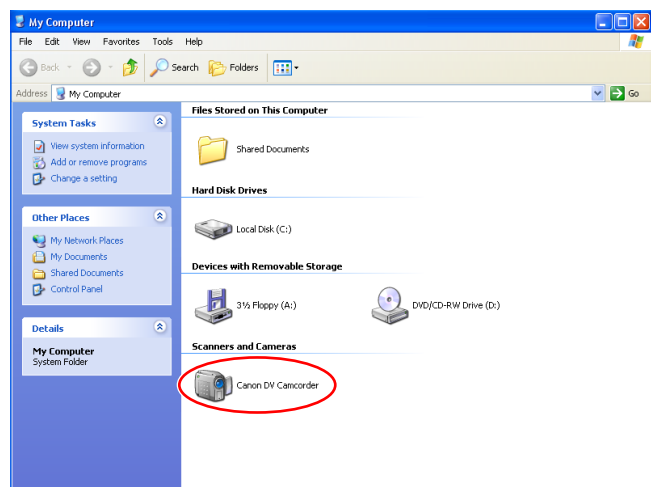
For details, refer to the camcorder instruction manual.

3. Connect the camcorder to the computer using the IEEE1394 (DV) cable.

- You do not need to turn off the computer.
- Do not deactivate the DV CONTROL function while the camcorder is connected to the computer.
- Refer to the computer manual for the location of the computer's IEEE1394 (DV) port.
- Refer to the camcorder instruction manual for connecting instructions.



- When the camcorder is correctly connected to the computer, a camcorder icon appears under [My Computer].



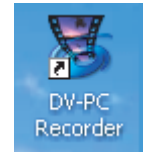
Starting DV-PC Recorder



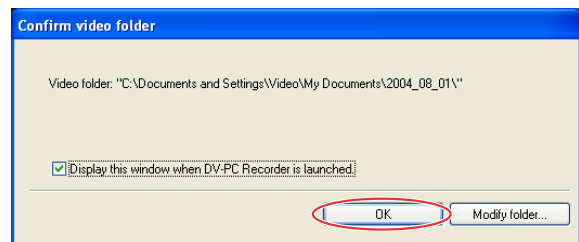
You need to log in as an administrator before starting DV-PC Recorder.

1. Double-click the [DV-PC Recorder] icon on the desktop (or select [DV-PC Recorder] from the [start] menu).

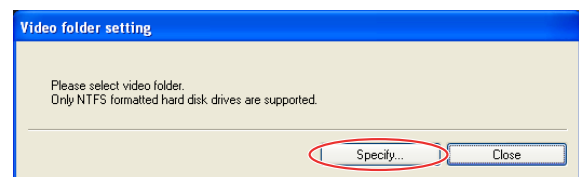
DV-PC Recorder starts.



2. Confirm the target folder (video folder) of the video recording and click [OK].

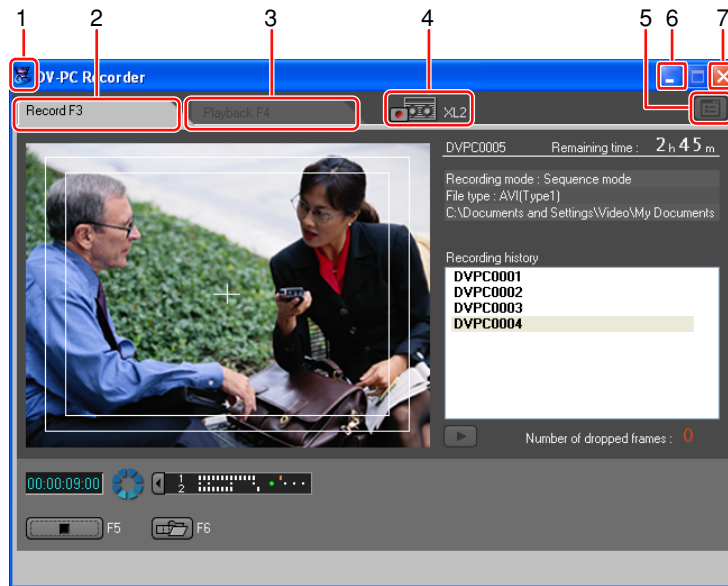









- If you wish to change the target folder, click [Modify folder] and select another folder.
- When you remove the checkmark next to [Display this window when DV-PC Recorder is launched], this dialog will not appear the next time you start DV-PC Recorder.
- The first time you start DV-PC Recorder, the target folder is set as [Windows drive:\Documents and Settings\login user name\My Documents\date]. If Windows is not installed on a NTFS formatted hard disk, the following dialog appears. Click [Specify] and select a folder on a NTFS formatted hard disk.



Starting DV-PC Recorder


Main Panel



1	System menu	Displays DV-PC Recorder's system menu (📖 13).
2	[Record]	Displays the control panel for recording the camcorder picture on the hard disk (📖 22).
3	[Playback]	Displays the control panel for playing back recordings saved on the hard disk (📖 25).
4	Camcorder information	Shows the camcorder model name and the status of the tape in the camcorder. The status of the tape is indicated as follows:  No tape in the camcorder  Stop mode  Recording  Tape reached the end  Tape is write-protected  Tape error. Check the tape status.
5	Option settings	Displays the [Option settings] window.
6	Minimize	Minimizes the Main Panel. When you minimize the main panel during recording, the [DV-PC Recorder] task on the task bar shows the time code. 
7	Close	Closes DV-PC Recorder.

Starting DV-PC Recorder

System Menu

Clicking  on the upper left of the Main Panel (or right-clicking the [DV-PC Recorder] icon on the task bar) displays the system menu.

The system menu cannot be displayed while a dialog is shown.



1	Close	Closes DV-PC Recorder.
2	Help Topics	Displays the help topics.
3	About DV-PC Recorder	Displays the version of DV-PC Recorder.

Camcorder Screen Display

The DV-PC Recorder status and the remaining recording time on the hard disk are displayed on the camcorder screen.



Icon	DV-PC Recorder Status
	Not started
	Stop mode
	Recording
	Frame dropping occurred (📖 23).
	Cannot record (📖 29) Check the setting of the video folder.



- If is not displayed, activate the DV CONTROL function of the camcorder.
- When the hard disk status does not allow recording (e.g. hard disk space is running out, file is being played with DV-PC Recorder), recording is made only on the tape.

Setting Video Folder, File Name and Recording Mode

Select the settings such as target folder (video folder), file name and recording mode before recording the camcorder picture on the hard disk.

1. Click .



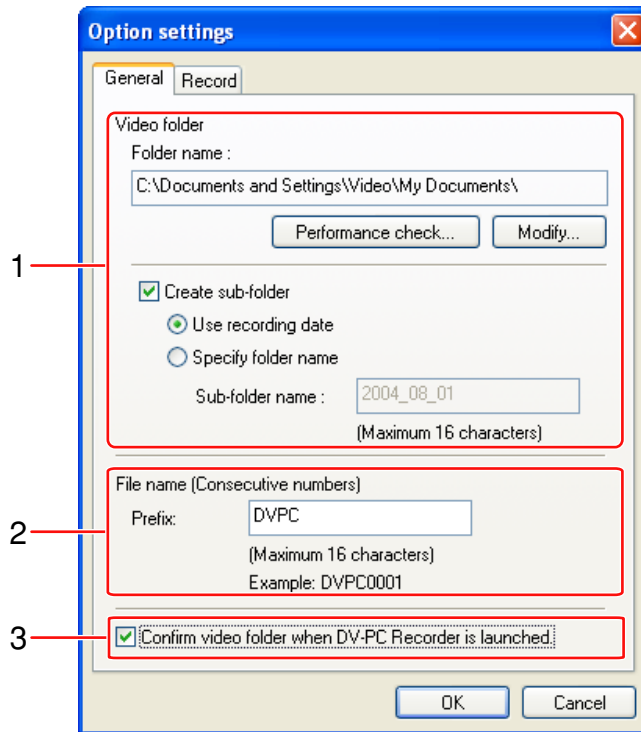
2. Click the [General] or [Record] tab.

3. Select the settings and click [OK].

The settings will be applied, and the [Option settings] window closes.

Setting Video Folder, File Name and Recording Mode

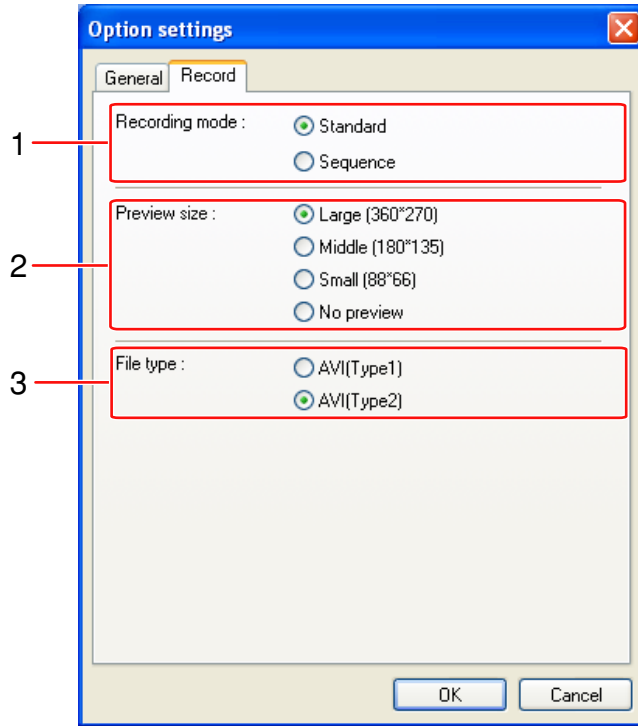
[General] Tab



1	Select the video folder settings. [Video folder]: Shows the selected folder. [Performance check]: Checks whether the selected video folder can be used for saving the recordings (📖 18). [Modify]: Selects a different folder. [Create sub-folder]: Creates a subfolder within the folder shown under [Video folder]. You can name the folder after the date by selecting [Use recording date] or specify a new folder name under [Specify folder name].
2	Specify the file name of the video recording. A sequence number (up to 9999999) will be allocated after the specified prefix (e.g. “DVPC0001.avi”).
3	Placing a check mark displays a dialog confirming the video folder each time you start DV-PC Recorder.

Setting Video Folder, File Name and Recording Mode

[Record] Tab



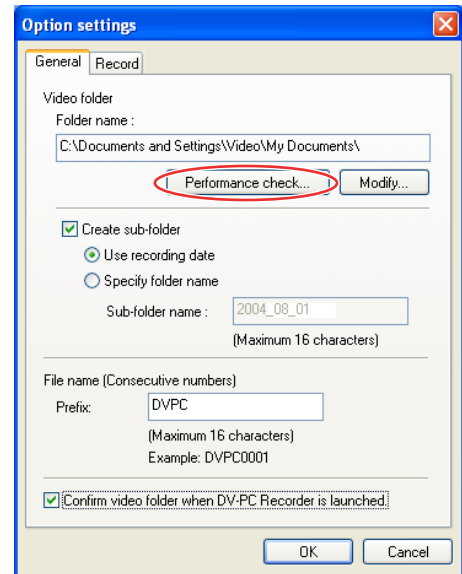
1	Select the mode for recording on the hard disk. [Standard]: A new folder will be created each time you start recording a new scene. [Sequence]: The new scene will be added to the same folder.
2	Select the size of the preview that shows the camcorder picture on the computer screen. <ul style="list-style-type: none">• When you select [No preview], the camcorder picture will not be shown on the computer screen during recording.• When frame dropping occurs, select [Small] or [No preview].
3	Select the file format of the recording. The recordings are saved in the AVI format. <ul style="list-style-type: none">• Select the AVI format that is compatible with your editing software. For details, refer to the instruction manual of the software or consult the software manufacturer.• When using Adobe Premiere Pro/Premiere Pro 1.5 or Canopus EDIUS LE Version 1.4, select [Type2].• Some of the editing software supporting the AVI format convert to a different file format when importing. For details, refer to the software instruction manual or consult the software manufacturer.

Setting Video Folder, File Name and Recording Mode

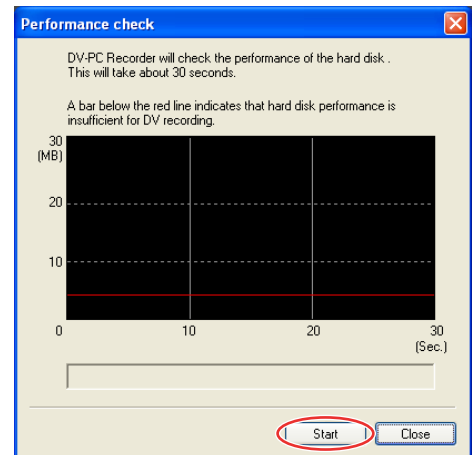
Performance Check

You can check whether the selected video folder can be used for saving the recordings before you start recording on the hard disk.

1. In the [Option settings] window, select the [General] tab, select the video folder, and click [Performance check].

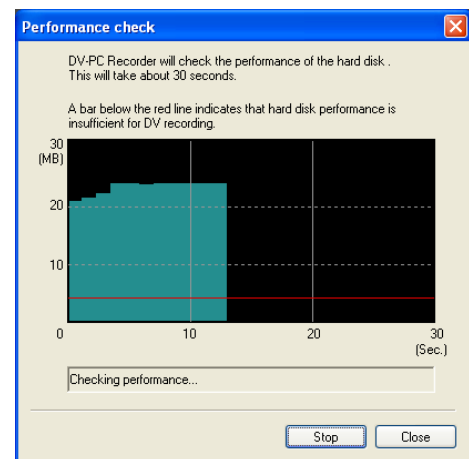


2. Click [Start].



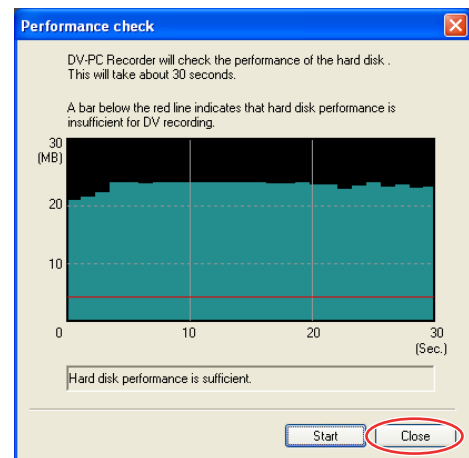
- The performance check of the hard disk starts.
- DV-PC Recorder writes data to the selected folder, evaluates the performance of the hard disk, and shows the result on the graph.

Setting Video Folder, File Name and Recording Mode



- The performance check takes 30 seconds.
- To cancel the performance check, click [Stop].

3. When performance check is complete, review the result and click [Close].



- A bar below the red line indicates that frames may be dropped during recording (a part of the picture may not be written to the file).
- **Even if all bars are above the red line, frames may be dropped when a program accessing the hard disk (e.g. anti-virus software) is activated.**

Recording on the Hard Disk

You can record video and audio from a connected camcorder on the hard disk of the computer by operating the camcorder or the recording panel of DV-PC Recorder.



○ Before you start recording:

- Make a performance check (📖 18) to make sure that the recording can be saved to the selected video folder.
- Make sure that **DVZ** is displayed on the camcorder screen. If **DVZ** or **DVZ** is displayed, you cannot record on the hard disk. In such case, check the setting of the video folder (📖 29).
- We recommend defragmenting the drive on which the video folder is located.
- Deactivate all programs that access the hard disk on a regular basis (e.g. as anti-virus software). Frames may be dropped when such programs access the hard disk during recording.
- If you wish to edit using the time code, make sure to record simultaneously on a tape. The time code information will only be written to the hard disk when recording on a tape.

○ In the following cases, recordings cannot be saved on a hard disk:

- During option settings or performance check.
- When the sequence number of the file exceeds the maximum value (e.g. "DVPC9999999.avi").
- When DV-PC Recorder is started while using the camcorder with another software.

○ Observe the followings during recording:

- Do not activate any other software. When another software is running, frame droppings may occur. Also, when software that accesses the camcorder (e.g. editing software) is started, DV-PC Recorder may not operate correctly.
 - Do not change the settings in Windows [Display Properties] window.
 - Do not lock Windows by pressing the Windows key and [L] key on the keyboard.
- Depending on the status of the camcorder or computer, a delay in recording start/stop may occur when you record on both the hard disk and tape.

1. Click the [Record] tab.

The recording panel appears.

2. When operating the camcorder:

Press the start/stop button on the camcorder.






- Recording starts on both the tape in the camcorder and the hard disk.
- **DVZ** appears on the camcorder screen.
- When no tape is inserted, or the tape is write-protected, recording is saved only on the hard disk.
- When the tape reaches the end, recording on the hard disk continues.
- To stop recording, press the start/stop button on the camcorder again.

When operating DV-PC Recorder:

Click .

Recording on the Hard Disk

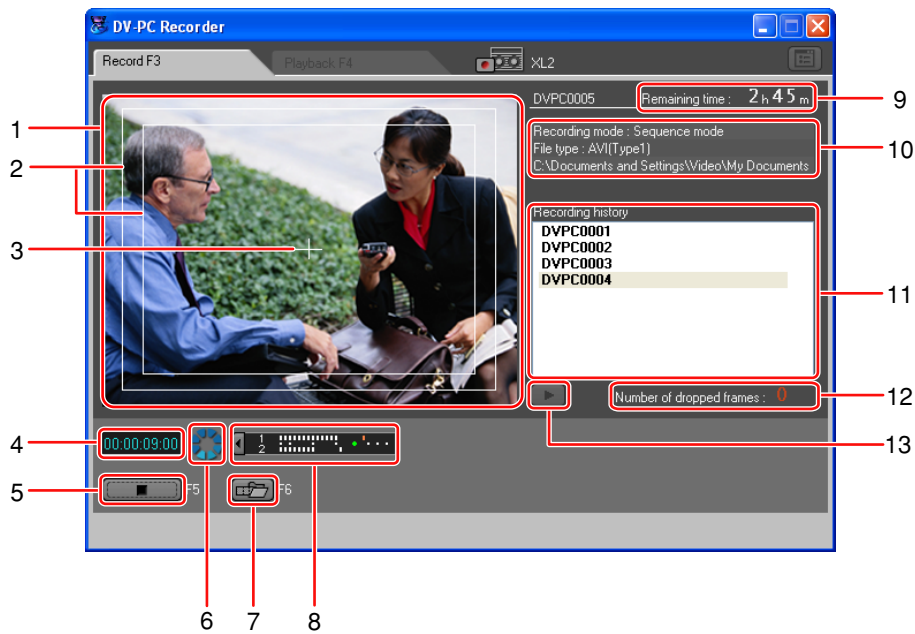


- Recording starts on both the tape in the camcorder and the hard disk.
-  changes to , and the indicator starts moving.
- When the tape reaches the end, recording on the hard disk continues.
- When no tape is inserted, or the tape is write-protected, recording is saved only on the hard disk.
- To stop recording, click .
- To save the next scene as another file in [Sequence] mode, finalize the file by clicking  in recording or stop mode.
- If you have not finalized after stopping recording in [Sequence] mode, the preview on the playback panel does not appear. Restart recording or finalize the file by clicking .






- When you change the frame rate on the camcorder during recording, recording stops for a moment. The recording after restart will be saved as a new file.
- With notebook PCs, recording on the hard disk will continue without entering the system standby or hibernates mode even when you close the display during recording.

Recording Panel





1	Preview	Shows the camcorder picture. When you have selected [No preview] in the [Option settings] window, the preview does not appear during recording. When recording in [Sequence] mode, the preview starts when you restart recording or finalize the file by clicking .
2	Safe margin	Indicates the active safe area and title safe area. Select this setting from the menu that appears upon right-clicking the preview.
3	Center marker	Indicates the center of the screen. Select this setting from the menu that appears upon right-clicking the preview.
4	Time code	Shows the time code of the file.
5		Starts/stops recording the camcorder picture. When a recordable tape is in the camcorder, recording on tape starts. Clicking starts recording. Clicking during recording stops recording. This button cannot be operated when the DV CONTROL function is deactivated, or when the remaining hard disk capacity is insufficient.
6	Recording indicator	The indicator rotates during recording on the hard disk.
7	Finalize	When recording in [Sequence] mode, you need to finalize and save the file. When you finalize the file, you can use it as AVI file with an editing software. After finalizing, the next recording will be saved as a new file.

Recording on the Hard Disk

8	Audio level indicator	Indicates the audio level of the channels 1 and 2 of the camcorder. The audio level indicator can be turned on/off by clicking  . <ul style="list-style-type: none"> • The audio level indicator appears slightly later on the computer screen than on the camcorder screen. • You can monitor the audio with the computer's sound function. If you do not wish to play back the audio on the computer, set the audio level to [Mute].
9	[Remaining time]	Indicates the remaining recording time of the selected video folder. <ul style="list-style-type: none"> • This gives only an indication of the remaining recording time. • The display turns yellow when the remaining time is less than 6 minutes. At less than 1 minute, [0m] is displayed in red.
10	Recording settings	Shows the file name, recording mode, file format, and video folder set in the [Option settings] window.
11	[Recording history]	Shows recorded files and file information ( 24).
12	[Number of dropped frames]	Indicates the number of dropped frames during recording.
13	Playback	Plays back the file selected under [Recording history] ( 25).

Frame Dropping

When a program accesses the hard disk during recording, a part of the data input from the camcorder may not be written to the file (frame dropping).

When frame dropping occurs, the number of dropped frames appears under [Number of dropped frames] in the recording panel. In addition, the display on the camcorder screen changes from  to  for a few seconds.

When the file is created on the hard disk after recording, you can check the scenes where frame dropping occurred under [Recording history].

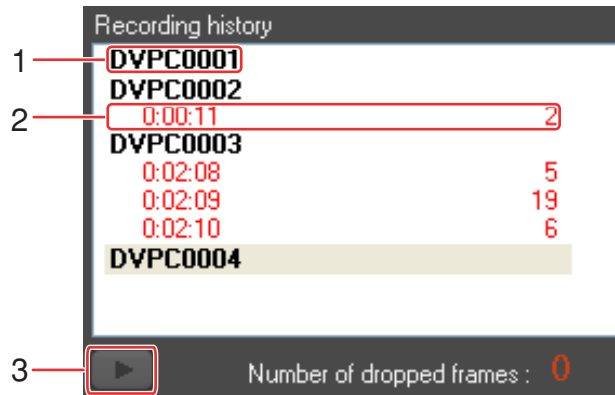
Recording on the Hard Disk



Recording History

When you stop recording in [Standard] mode, or when a file has been created upon finalizing in [Sequence] mode, the file information appears under [Recording history].



The recording history will disappear when you close DV-PC Recorder. When you wish to review the history after you have closed DV-PC Recorder, open the “DVPC.LOG” file in the video folder with a text editor. You can check the file name, recording date, file size, length, file format, and information of dropped frames.



1	File name	Shows the file name recorded with DV-PC Recorder. The file information appears when you leave the mouse pointer on the file name for a moment.
2	Information on dropped frames	If frame dropping occurred, the position and number of dropped frames are shown here.
3	Playback	When a file name is selected: Clicking  starts the playback panel and the file is played back from the beginning. When information on dropped frames is selected: Clicking  starts the playback panel, and the file is played back from the point where frame dropping occurred.

Reviewing the Recorded Picture

You can review the recorded picture by playing back the file.



1. Click the [Playback] tab.

The playback panel appears.

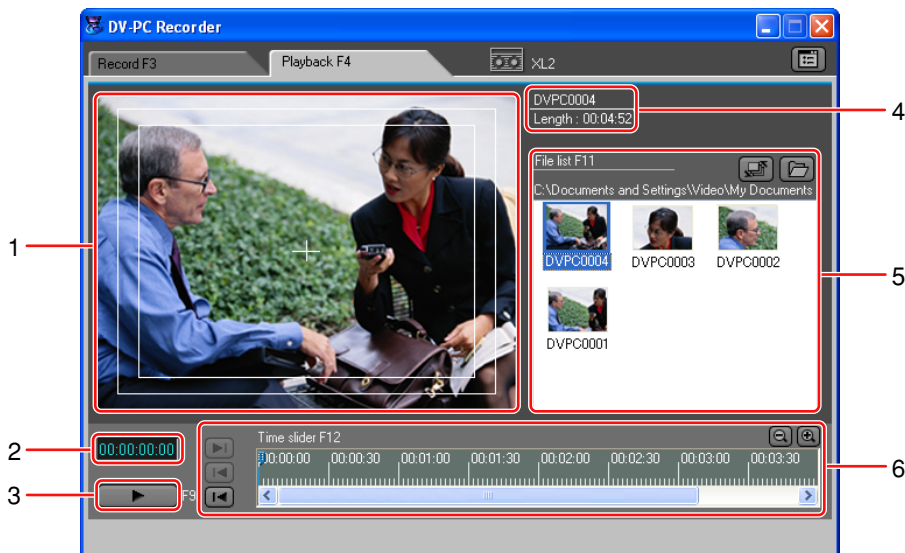
2. Select the file you wish to play back from the [File list].





Click the thumbnail of the file you wish to play back.

3. Click (or double-click a thumbnail).




- The selected file is played back.
- To change the playback position, move the slider ( 26).
- You cannot select multiple files for continued playback.
- To pause playback, click .

Playback Panel



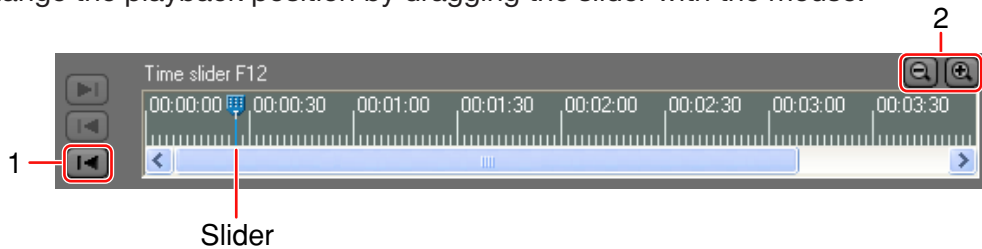
1	Playback preview	Shows the playback picture of the selected file. You can display the safe margin and the center marker. Select these settings from the menu that appears upon right-clicking the preview.
2	Time code	Shows the playback position of the file.
3	 / 	Starts/stops playing back the selected file. Clicking  starts playback. Clicking  during playback pauses playback.
4	File information	Shows the name and the length of the selected file.








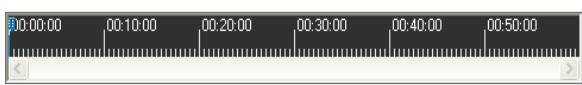

Reviewing the Recorded Picture

5	[File list]	<p>Lists the AVI files. As the default settings, the files in the selected video folder are shown and the latest file is listed at the top.</p> <p>: Selects a different folder.</p> <p>: Changes the order of the files. Select an option from the displayed menu.</p> <ul style="list-style-type: none"> • To delete a file, right-click the thumbnail and select [Delete] from the displayed menu. You can also press the [Delete] key on the keyboard after selecting the file. • The file information appears when you leave the mouse pointer on the thumbnail for a moment. • Files recorded in 24p mode are marked with  (NTSC only).
6	[Time slider]	Allows you to change the playback position by moving the slider.

Time Slider

You can change the playback position by dragging the slider with the mouse.



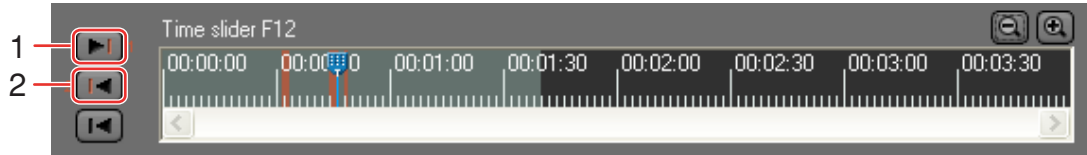
1		<p>The slider returns to the starting point.</p> <ul style="list-style-type: none"> • You can also press the [F12] and [Home] key on the keyboard.
2		<p>The time slider can be displayed in 5 different scales (maximum of 2 hours).</p> <p>: Increases the scale units. You can also press the [F12] and [↓] key on the keyboard.</p> <p>: Decreases the scale units. You can also press the [F12] and [↑] key on the keyboard.</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div data-bbox="539 1519 1417 1604">  <p>Time Scale: 8 sec. (NTSC)/ 9.6 sec. (PAL) (Default Setting) 1 Unit: 5 frames</p> </div> <div data-bbox="539 1604 1417 1689">  <p>Time Scale: 4 min. 1 Unit: 2 sec.</p> </div> <div data-bbox="539 1689 1417 1774">  <p>Time Scale: 20 min. 1 Unit: 10 sec.</p> </div> <div data-bbox="539 1774 1417 1859">  <p>Time Scale: 1 hour 1 Unit: 30 sec.</p> </div> <div data-bbox="539 1859 1417 1944">  <p>Time Scale: 2 hours 1 Unit: 1 min.</p> </div> </div>



Reviewing the Recorded Picture



- The slider moves to the end when pressing the [F12] and [End] key on the keyboard.
- During playback pause, pressing the [←] or [→] key on the keyboard after moving the slider with the mouse allows you to fine adjust the position of the slider.

Frame droppings that occurred during recording are indicated in red.



1		The slider moves to the frame dropping point after the current position. The number of dropped frames is displayed at the right of this button.
2		The slider moves to the frame dropping point before the current position. The number of dropped frames is displayed at the left of this button.

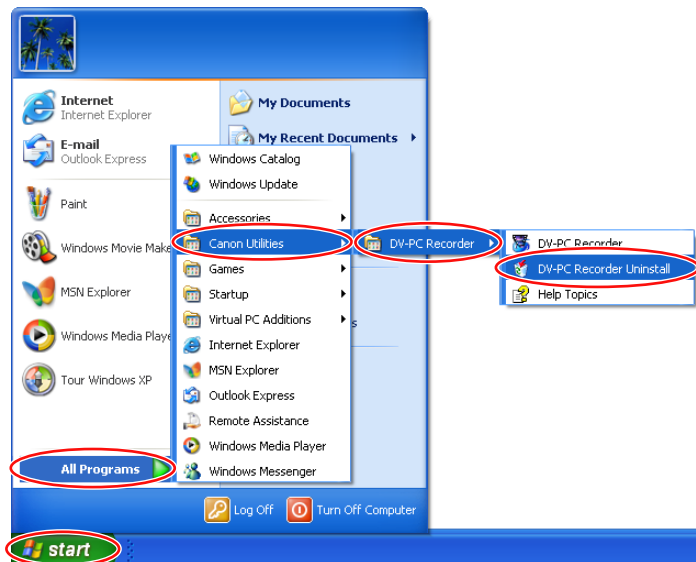
Uninstalling the Software

Uninstall the software if it has not been installed correctly, or if it is not required anymore.



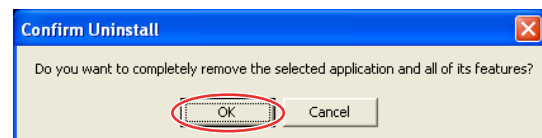
- Close any programs that are running, and disconnect the IEEE1394 (DV) cable from the camcorder and the computer before uninstalling the software.
- You need to log in as an administrator before uninstalling the software.

1. From the [start] menu, select [All Programs] followed by [Canon Utilities], [DV-PC Recorder] and [DV-PC Recorder Uninstall].



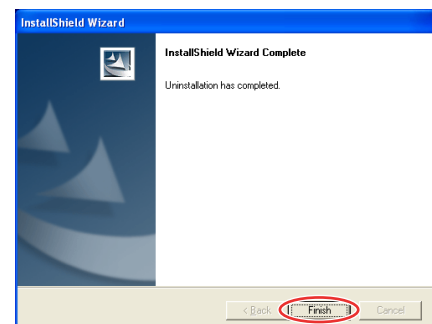
2. On the confirmation dialog, click [OK].

Uninstallation starts.



3. On the confirmation dialog, click [Finish].

Uninstallation is complete.



Troubleshooting

Camcorder will not be recognized.

- A camcorder not supported by DV-PC Recorder is connected. Check if your camcorder is supported by DV-PC Recorder (📖 6).
 - Another device such as a CD-ROM drive or hard disk drive (or repeater/hub) is connected to the computer's IEEE1394 (DV) terminal. Do not connect any devices to the computer's IEEE1394 (DV) terminal other than the camcorder.
 - More than one camcorder is connected to the computer's IEEE1394 (DV) terminal. Connect only one camcorder to the computer's IEEE1394 (DV) terminal.
 - The DV CONTROL function of the camcorder is set to [OFF]. Set the DV CONTROL function to [ON]. For details, refer to the instruction manual of your camcorder.
-

Even though the dedicated driver (Canon Virtual VCR or AV/C Tape Recorder/Player) is installed already, the [Found New Hardware Wizard] window appears when starting DV-PC Recorder.

- When you change the computer's IEEE1394 (DV) card and start DV-PC Recorder, Canon Virtual VCR or AV/C Tape Recorder/Player will be detected as new hardware. Select [Install the software automatically (Recommended)] and click [Next] to install the driver.
-

Cannot select a video folder.

- Only folders on a NTFS formatted hard disks can be selected as a video folder. You cannot select a folder on FAT32 or FAT16 hard disks.
 - Removable disks or network drives cannot be selected as a video folder.
-

Recording will not start even when pressing the start/stop button on the camcorder.

- The start/stop button on the camcorder is locked. Unlock the button.
-

appears on the camcorder screen and recordings cannot be made.

- Free hard disk space is less than 0.5 GB. Change the video folder.
 - The [Option settings] window is open, or performance check is being carried out. Close the window.
 - The sequence number of the file exceeds the maximum value (e.g. "DVPC9999999.avi"). Change the video folder or the file name.
 - The camcorder is in use with another software. Close the software.
 - The camcorder does not recognize DV-PC Recorder. Close DV-PC Recorder and restart it.
-

Recording on the hard disk stops in the middle of the recording.


- The hard disk capacity is insufficient. Delete files to make space available, or select a video folder on a hard disk with sufficient capacity.
-

The recorded picture is lacking.

- The recording speed of the hard disk is insufficient. Make a performance check (📖 18). We recommend defragmenting the drive before you start recording.
 - A program other than DV-PC Recorder is started. Close all programs other than DV-PC Recorder before recording. If an anti-virus software is activated, deactivate it.
 - The processing capacity of your computer is insufficient. Set the preview size to [Small] or [No preview] (📖 17).
-

Troubleshooting

The preview will not be displayed.

- If the preview is not displayed during recording, it might be set to [No preview] in the [Option settings] window. Select a setting other than [No preview].
- When recording in [Sequence] mode, the preview starts when you restart recording or finalize the file by clicking .

Canon