

# DV-Wizard Quick Installation Guide

**Note:** Manuals for the VideoStudio editor and Nero CD Burning software can be found on their CD-ROM's.

The Nero manual is available on the Nero CD-ROM under: \Nero\Manual\Eng or Deu or Fra or Ita or Jpn in a PDF or DOC file format.

The VideoStudio manual can be found on the VideoStudio CD-ROM under: \Document\Manual\English or French or German or Italian or Spanish or Japanese or Chinese\ vstudio.pdf

## Contents of the DV-Wizard package

DV-Wizard board

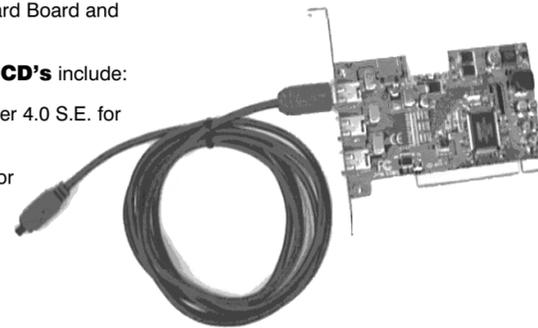
6 pin to 4pin FireWire cable for connection between the DV Wizard Board and your DV camcorder

DV-Wizard Installation CD's include:

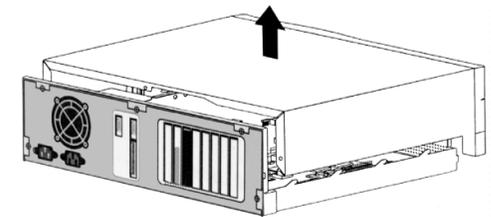
Ulead VideoStudio ver 4.0 S.E. for Video Editing

Nero Burning ROM for CD Authoring

Limited Warranty card

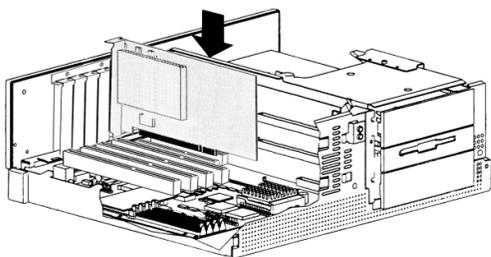


## Step 1: Install the DV-Wizard board



To install, switch off the computer. Remove the computer cover.

The manufacturer of your PC supplies instructions on removing the PC cover.



Locate a free PCI slot (a short white slot).

Unscrew and remove the metal cover plate which covers the back of the empty slot.

Plug the DV-Wizard board into the PCI slot, and screw the DV-Wizard's metal cover plate to the PC.

Replace the computer cover.

## Step 2: Connecting your Digital Video (DV) camcorder



Plug one end of the supplied **Firewire cable** into any of the DV Wizard connector. The other end of this cable should be plugged into your **DV camcorder**. Turn on your camcorder and set it to Play mode (or VTR mode). See your camcorder's manual for specific instructions.

## Step 3: Install the DV-Wizard driver for Windows XP

When re-starting Windows for the first time after the DV-Wizard board has been installed, Windows XP will find the board and automatically install the drivers.



When the drivers finish installing the DV-Wizard board will be listed in Device Manager as **OHCI Compliant IEEE 1394 Host Controller**

Continue to **Step 5:**

## Step 4: Install the DV-Wizard driver for Win98se & Me



4a. When re-starting Windows for the first time after the DV Wizard board has been installed, the **Add New Hardware Wizard** will appear. Click **Next**.



4b. Select **Display a list of all the drivers in a specific location**. Then click **Next**.



4c. It will show the DV-Wizard as **PCI OHCI Compliant IEEE 1394 Host Controller**. Click **Next**.

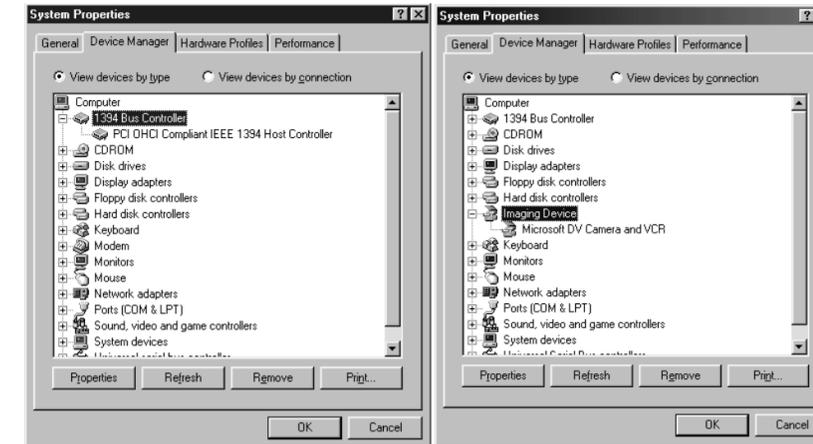


4d. The computer is ready to install the driver for the device. Click **Next**.

Have your Windows Installation CD on hand, you may be prompted for it.

4e. Click **Finish** and the DV-Wizard driver is installed!

If the installation is correct, you will see the driver appear in the **Windows Device Manager**. To see the Device Manager, click **Start / Settings / ControlPanel** and double click on **System**. Then click on the **Device Manager** tab. Under the **1394 Bus Controller** you will see the **PCI OHCI Compliant IEEE 1394 Host Controller**:



Under **Imaging device**, you should see **Microsoft DV Camera and VCR** listed. If you don't see it, and find the 1394 DV camcorder listed under **Sound, Video and Game controller**, please refer to troubleshooting section to change it to **Microsoft DV camera & VCR**.

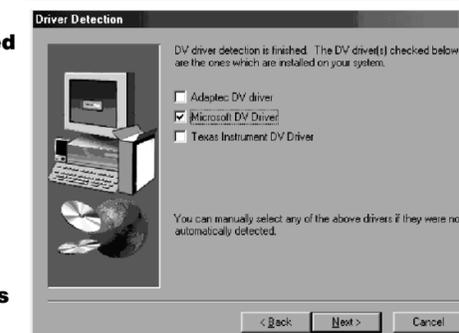
## Step 5: Installing Ulead VideoStudio for video editing and Nero Burning ROM software for Video CD making

Insert the **Ulead VideoStudio** installation CD-ROM into the CD-ROM drive and follow the on screen instructions.



When you are asked **Setup can detect the DV drivers installed for you**, turn on your DV camcorder and click **Yes**.

Ensure **Microsoft DV Driver** checkbox is checked. If the driver is not detected, check **Microsoft DV Driver** and click **Next**.



If **This program installs the Windows 98 Second Edition update** message appears, click **Yes** to update Windows98 SE.



Insert the **Ahead Nero Burning ROM** installation CD-ROM into the CD-ROM drive and follow the on screen instructions. When you are asked for the **product serial number**, use the Nero Serial number found on its CD sleeve.

VideoStudio has a tutorial on the CD that covers its basic use. Manuals of VideoStudio and Nero can be found in their respective folders.

## Step 6: Setting up for Video Editing

5a. Run **Ulead VideoStudio**



Global commands button



5b. Click the **Global commands** button and select **Change Capture Plug-in**. Select the appropriate DV Capture Plug-in : **Ulead DirectShow Capture Plug-in**. If you have changed to a new plug-in, please restart VideoStudio.



5c. Click the **Global commands** button on the left side of the screen. Verify that **Microsoft DV Camera and VCR** is selected, as shown in the picture.

5d. Click the **Global commands** button. Click **Select Device control** and select **MS 1394** device control. Then you should be able to control the DV camcorder (VTR mode) using VideoStudio.

You are now ready for Digital Video Production! Click on Start at the menu bar and follow the on screen instructions to begin capturing video and audio from your DV camcorder!

**Note:** Camcorders have two modes of operation: VTR or Camera mode. Most camcorders in camera mode have an automatic power off feature. If camera mode affects smooth operation of DV-Wizard, set the camcorder to VTR mode.

## Creating Video CD's for playback on home DVD players

The format used on Video CD's (VCD) is MPEG1, which can be created by the DV-Wizard and can play on most home DVD players.

**Note:** We have found that most home DVD players can play Video CD's created with CD-RW media. Some DVD players, though, can only read CD-R media. If you are not able to have your DVD player read a CD-RW made using these steps, we suggest trying a CD-R media. A complete list of tested compatible DVD players can be found on our web site at: <http://www.hauppauge.com/dvwizard>

### step 1: Create a Video CD Project

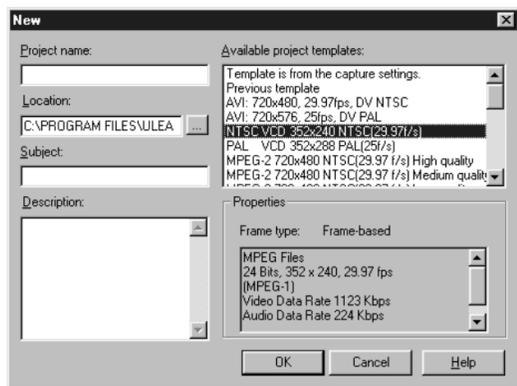


New Project button

Run **VideoStudio**. Click the **NewProject** button.

Under **Available Project Templates**, chose **NTSC VCD** (in North America and Japan) or **PAL VCD** (Europe and other parts of Asia).

Name your Project in **Project Name**, and then click **OK**.



## step 2: Insert your DV videos

Capture or insert a Video Clip. To insert a video clip which has previously been captured, click on the **Storyboard** button. Then click on the **Insert media files** button, click on **Add Video** (if you have an audio/video file) and locate the file to be added. Click **Open**.



Insert media files button

## step 3: Create a Video CD file

To make the MPEG file for Video CD, click **Finish**. Then click the **Save project** button and then the **Make Movie** button. Select **MPEG files (\*.mpg)** from the **Save as Type** list.



Save button



Make Movie button

Enter a File name for your production and click **OK** to make your movie.

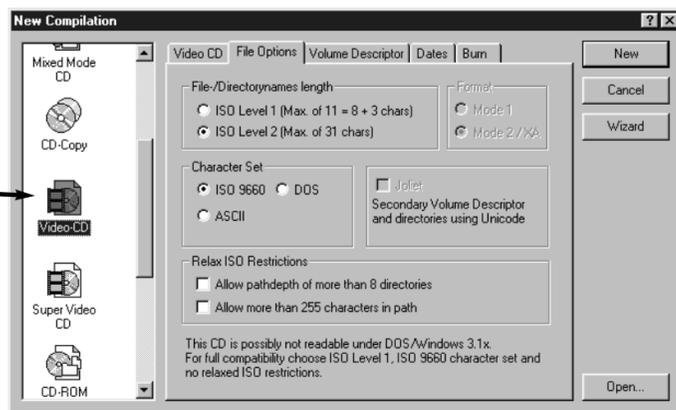
It will take approximately 4 times (the exact amount of time will vary based on your CPU speed) your video movie length to make the Video CD movie.

For example, a 10 minute movie will take approximately 40 minutes to complete this step.

## step 4: Burn the Video CD CD-ROM

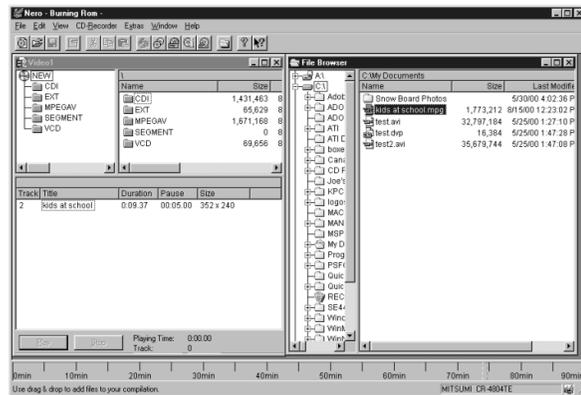
Run **Nero - Burning ROM** software.

- Click on **Start / Programs / Nero - Burning Rom**



- In the **New Compilation** box, click on **Video-CD**. If you want to name your Video CD, select the **Volume Descriptor** tab and enter a name under **Volume Label**.

- Click on the **New** button to open Nero Burning Rom Main Menu:



Locate the **Video CD** file created in the **Create a Video CD** section above. VideoStudio uses the directory where you located the original video files as the default. In the example shown here, the directory used is **My Documents**, and the Video CD file is called **kids at school**.

Drag and drop selected file into the **Track/Title** window.

- Click on **File / WriteCD**. Then click **Write**. Insert a **blank CD-RW** disk. It takes about 12 minutes to write a Video CD disk with a 4X CD-RW writer.

**Note:** *Hauppauge recommends using CD-RW media to create Video CD's for DVD playback. Most DVD players can use CD-RW media, while some can use either CD-RW or CD-R media. If you insert one of the created Video CD's and the DVD player does not turn on the Video CD light or display Video CD on your TV screen, then try creating a Video CD using a CD-R media.*

## Troubleshooting Guide

### Question : I am having problems installing the DV Wizard board, and getting my camcorder to work.

- If you are running Windows98, right click on the "My Computer" icon. Pull down and choose **Properties**. Select **General** tab. The box that comes up should say **System : Windows98 Second Edition** or if the date reads 4.10.98, you will need to upgrade to Windows 98 SE in order to use the DV-Wizard.
- The DV-Wizard requires your camcorder to be OHCI IEEE 1394 compliant. Check the camcorder manual or with manufacturer for questions on the compliance.
- Refer to Question : **I have DV Wizard board and VideoStudio installed, but I cannot capture videos successfully.**

### Question : How do I update the 1394 DV Camcorder driver to Microsoft DV Camera and VCR in Windows98 SE?

- Go to **Control Panel \ Systems \ DeviceManager \ SoundVideoGame-Controller \ 1394DVCamcorder \ Properties \ Driver \ Update Driver**.
- Click **Next**, select option **Display a list of all the drivers in a specific location**.
- Click **Browse**, input '**C:\Windows\INF**' then click **OK**. (C:\Windows\ may be changed to the folder where your Windows is installed)
- Select the **'MS DV Camera and VCR'** then click **OK**.
- Follow Windows instructions. There will be a warning message to warn user that the current driver is better than the selected one, click **Yes** to change it.

### Question : I have DV-Wizard board and VideoStudio installed, but I cannot capture videos successfully.

The following steps must be confirmed:

- In **Control Panel / System** click on the **Device manager** tab. Under **1394 Bus Controller** the **PCI OHCI IEEE 1394 Host Controller** should be listed.
- Make sure no loose connection between DV camcorder and DV Wizard card, then turn on the DV camcorder. Step 2.
- In **Control Panel / System / Device Manager / 'Image device'**, you should see **'Microsoft DV Camera and VCR'** listed.
- In **VideoStudio**, click the **Global command** button, then **Change Capture Plugin**. Make sure to select **Ulead DirectShow capture plugin** is selected.
- In **VideoStudio**, click the **Global command** button. Just below **Change Capture Plugin, Microsoft DV Camera and VCR** should be listed and have a black point in front of it (selected). See step 5c.
- In **VideoStudio**, click the **Global command** button, then **Select Device control**, under Current Device select **MS 1394 device control**. Then you should be able to control the DV camcorder (VTR mode) by Video Studio. If you get an error message **Unable to open specified device**, your DV camcorder cannot be detected by VideoStudio. Make sure your DV camcorder is turned on and recheck your cables.

### Question : When recording DV video back to my DV video camera, some frames are dropped or the first frame is repeated with noise. How do I fix this problem?

This is due to camcorder mechanical limitations and can be improved by following these instructions:

- In **VideoStudio**, click the **Global command** button. Under **Device Control**, select **MS 1394 Device Control**. Click **Options**.
- Adjust **Delay record time** to **3000** and try recording again. Default is 0 msec
- Reduce the number approximately 200~500 until you achieve the desired results.

### Timing Control Options:

- Transmit-pause Lag Time: Default is 2500 msec.
  - The time required for the first video frame to transmit to the camcorder. NOTE: Certain DV camcorders require this lag time to ensure that succeeding commands will not fail.
- Record-pause Lag Time: Default is 2500 msec.
  - The time required for the Record-pause command to respond.
- Delay-record Lag Time: Default is 0 msec.
  - The time required for a DV camcorder to respond to the Record command and actually start capturing DV data.
- Pre-roll time : Default is 0 msec

NOTE: Higher lag times increase the amount of noise and can cause the first frame to freeze. Lower lag times can cause frames to be dropped.

### Question : How do I output DV video to a DV camera?

- Turn on your camcorder and set it to Play mode (or VTR mode). See your camcorder's manual for specific instructions.
- Go to the Finish step.
- From the **'Output options'** combo box (where the default option is Web Page), select **MS DV Record**.
- Click the **Export video clip** button. The **DV Recording - Preview Window** opens. Click **Next**. In the **Preview window**, you can preview the created video before recording, If there

is no problem, click **Next** to go to the Record window.

- In the **Record window**, use the **control keys** to move the tape to the position where you would like to record the created video. The arrow button will transmit the video to DV camcorder but it won't actually write the tape. Click **Red Record** button for recording the video to tape.

The first few seconds of DV video will usually be missing during the recording.

### Question : Why is the "Capture image" button greyed out?

The DirectShow Plugin supports video capturing only. If you want to get a single frame from the DV tape:

- Import** it as a video clip,
- Go to **Storyboard** step, and select the clip,
- Click **Save current frame as a new image file** to cut the single frame as an image clip.

### Question : Why is rendering process so slow? How do I speed it up?

VideoStudio's Smart Rendering mechanism works by copying the unchanged frames to reduce the rendering time. For Smart Rendering to work, make sure the rendering video has the same settings - such as frame size, frame rate, data rate and compression. The properties of the clip is available by clicking on the "i" letter icon. Modify the settings for rendering in **Finish / Make movie / Options / video Save** option dialog box.

For clips with a lot of titles, transition effects or large frame sizes, it will take longer time to render.

### Question : Can I use Ulead VideoStudio to edit MPEG-2 or Quick-Time (MOV) video files?

Yes. You are able to edit the video files

### Question : I have a Hauppauge WinTV board in my system. Will I be able to capture and edit the video from tuner, composite or S-Video?

Yes. We recommend that you use the WinTV2000 Video Capture application to capture video when using the WinTV. The captured video is saved in an AVI file, and then can be used in VideoStudio as another source for video clips. Here is what you do:

- Click the **RC button** found in the lower right hand corner of the WinTV2000 application. Click on the **advanced controls** bar to roll down the VCR and Snapshot configuration menu.
- Click the **1. FILE** button. Find the directory you would like to store your video files in. One convenient spot is the default directory for VideoStudio:  
C:\ProgramFiles\UleadSystems\ULeadVideoStudio\

Set the **Frame Rate** to **15.00** Click on the **VideoCompression** button and set the Compressor to **Uncompressed** or **No Recompression**.

Click **OK** to close the File menu.

- Click **2. FMT** to open the format menu. Set the **Image Dimensions** to 352x288 (PAL video) or 352x240 (NTSC video). Set **ImageFormat** to **YUV9**. Click **OK**.
- To start recording click **3. REC** To stop recording hit the **ESC button** on your keyboard. Click **4. PLAY** to see what you have just recorded.

Once you have captured your video clips in an AVI format, open **VideoStudio**. When you are ready to import the video file, click on **Storyboard**, then click on the **Insert Media Files** button and then **Add Video**.

If you would like to save compressed video to save hard disk space, in the **1. FILE** menu click on the **VideoCompression** button and set the **Compressor** to one of the video compressors which are supplied with Windows. There are several, and each will give different levels of video quality and file size, so you must experiment to find the one which is right for you.