WinTV-PVR-USB2

Personal Video Recorder for USB 2.0 and USB 1.1

Quick Installation Guide

© Hauppauge Computer Works, Inc. 2003-2005 QI-PVRUSB-V2.6C-ENG March 25, 2005

Hauppauge Computer Works, Inc.	Telephone:	631-434-1600
91 Cabot Court	Fax:	631-434-3198
Hauppauge, NY 11788	Tech Support:	631-434-3197
	Hours: M-F 9:00AM to 6:30PM ES	

Telephone:	0207-378-1997
Fax:	0207-357-9171
Tech Support:	0207-378-0202
BBS:	0207-357-6587
	Fax: Tech Support:

Internet addresses:

Sales: sales@hauppauge.com

Tech Support: techsupport@hauppauge.com Web site: www.hauppauge.com

Included with WinTV-PVR-USB2:

- WinTV-PVR-USB2 device with 125 channel cable ready TV tuner, FM radio receiver, MPEG-1 and MPEG-2 hardware audio/video
- Remote control transmitter and batteries
- Wall mounted power supply (6 volt)
- 1 meter USB cable
- FM radio antenna
- WinTV-PVR-USB2 Installation CD-ROM
- WinTV-PVR-USB2 Quick Installation Guide (this guide)

Installing the WinTV-PVR-USB2

The WinTV-PVR-USB2 is a USB device designed for Microsoft® Windows98, WindowsME, Windows2000 and WindowsXP.

Installation overview

To install WinTV-PVR-USB2, follow these steps:

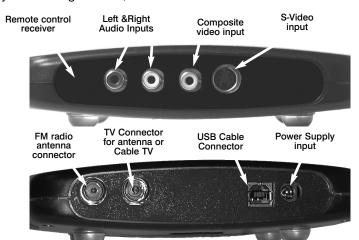
- ✓ Plug your TV antenna or cable TV cable into the WinTV-PVR-USB2's TV Connector. Plug the supplied USB cable into the WinTV-PVR-USB2 and into one of your PC's USB ports.
- Boot your PC.
- After Windows is running, plug the supplied Power Supply into WinTV-PVR-USB2's power input. The Found New Hardware Wizard will then load the WinTV-PVR-USB2 driver from the WinTV-PVR-USB2 Installation CD-ROM.
- After the WinTV-PVR-USB2 driver is installed, install the WinTV application software by running SETUP.EXE from the WinTV-PVR-USB2 Installation CD-ROM.

Step 1: Connect the WinTV-PVR-USB2 cables

Plug your TV antenna or cable TV cable into the WinTV-PVR-usb's TV Connector. Plug the supplied Radio aerial into the FM radio connector. This may not be necessary if your TV aerial or cable network supplies FM.

The S-Video and Composite video inputs and the L&R audio inputs can be used to bring audio/video from a VCR, camcorder, DVD player or satellite TV receiver.

Plug one end (the square end) of the supplied USB cable into the WinTV-PVR-USB2's USB Cable connector. The WinTV-PVR-USB2 is compatible with both USB 1.1 and USB 2.0 (high speed USB). If you are using USB 2.0, the WinTV-PVR-USB2 can create videos at



higher quality.

Step 2: Boot your PC.

Step 3: Plug the power supply into WinTV-PVR-USB2 Plug the supplied Power Supply into the Power Supply input on WinTV-PVR-USB2.

DO NOT PLUG THE POWER INTO WINTV-PVR-USB2 UNTIL YOUR PC HAS COMPLETELY BOOTED!

Step 3a: Installing the WinTV-PVR-USB2 driver for Windows XP and

Windows2000 elcome to the Found New After booting into ardware Wizard Windows, plug the WinTV-PVR-USB2 in your USB port. The Found **New Hardware Wizard** will appear. Insert the WinTV Installation CD-(Install the software automatically (Recommended ROM in your PC's CD-ROM drive and make sure Install the software Next > Cancel

automatically (Recommended) is checked. Then click NEXT.

When the Hardware Installation dialog box opens, click Continue Anyway. Click Finish.

This will complete the driver installation for Windows XP. Now go to step 4 to install the WinTV-PVR applications.

Step 3b: Install the WinTV driver for Windows98SE, WindowsMe

Boot your PC. When it is completely booted, plug the other end flat rectangular end) of the **supplied USB cable** into your PC's USB port.

When you plug in the WinTV-New Hardware Found PVR-USB2 the first time, the Add New Hardware Wizard will appear. Click Next.

Select Search for the best driver for your device (Recommended). Click Next.

When you see the dialog box, insert the WinTV Installation-CD-ROM into your CD-ROM drive.

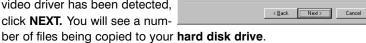
Select CD-ROM drive and click **NEXT**. It normally



takes 10 seconds or so for the CD-ROM drive to spin up. If Windows cannot find the Hauppauge WinTV video driver, the CD had not yet spun up, so click Back and then Next

again. Once the **Hauppauge WinTV**

video driver has been detected,



Click FINISH. Now go to step 4 to install the WinTV applications.

Step 4: WinTV-PVR-USB2 applications installation

To start the WinTV-PVR software installation, click Start / Run then type your CD-ROM drive letter (for example: E:\) and then Setup.exe.

Chose a language, and click Next. The standard applications

are selected, ready to be installed. Click *Install* to start the

application installation. After the Setup program is complete, you will need to reboot your PC. After rebooting, you will see the WinTV2000 icon on your Windows desktop.



Next > Cancel

device. Click Back to se

The WinTV2000 application

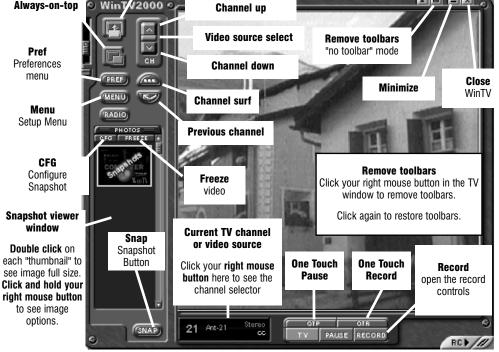
To run the WinTV2000 application for watching TV, recording videos and playing them back to your PC screen, double click the WinTV2000 icon.

Scanning for channels

When running WinTV for the first time, you will need to scan for your TV channels. If you are using Cable TV, in the Broadcast/Cable box select Cable (or Cable HRC). Otherwise select Antenna.

Choose the Video Format for your geographic region, then click on Start:

Full screen TV

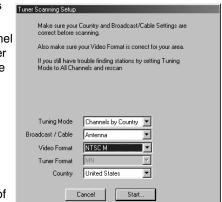


North America uses NTSC M Europe uses PAL B/G the U.K. uses PAL I in South America, either PAL M or PAL N is used

Setting up the channels After you have scanned for channels, you can add channel names and fine tune for better reception. To do this, click the Menu button on WinTV2000, then click **Suite Manager**. You can also **click and hold your** right mouse button, then click

Click on the desired channel, then **Edit**. Change the ChannelName to the name of

SuiteManager.





station, change the description or fine tune. Then click OK.

Selecting an External Video source (VCR, camcorder, etc.)

Click the areen Video source select button to select TV. Composite and S-Video sources. The video sources will use the TV standard chosen when you scanned for your TV channels (NTSC or PAL).

Click the *Menu* button and click on *Suite Manager* and

Rescanning for channels

then Auto scan. Make sure you select cable or antenna in Broadcast / cable. Chose the correct Video format for your region and then click **Scan**.

Displaying TV full screen

When you click the Full screen TV button, TV will appear full screen. When finished watching TV full screen, click your right mouse button in the TV window.

If you see video with a black box to the left and right of the TV image, click the **Pref button** then click **TV mode** tab. Check the box which says "Allow resolution change".

"Always-on-Top" mode:

With Always on Top, the WinTV window can always be visible on your Windows desktop. To turn on Always-on-Top, simply click the Always-on-top button. It will turn green. To turn off Always on Top, click this button again.

A convenient way to use Always-on-Top is to make the TV window in the no-title mode small, and to make the TV window in the title mode larger. Then you can switch very quick from a small window to a larger one simply by clicking the right mouse button.

Menu button

Click the Menu button to open the TV Setup menu. Here is the main control for TV channels, and duplicate controls for other functions: Suite Manager: configure the TV tuner (scanning, naming, fine tun-

ing, etc.), setting up 'favorite channel lists' and set an external A/V source to a TV channel.

Configuration: duplicate configuration menus for color, audio, MPEG settings, etc.

for setting the TV window size

Click the **Pref** button to open the **Preferences menu**. You will have

View: these are the settings for the On Screen Display of the TV channel and Audio Volume, where you can enable Close Captions, plus controls for the Toolbar mode (Title mode), NoToolbar mode (No Title) and Full Screen (TV mode).

Movies: here is where you configure the video and audio settings. You can set the **movie record directory** (DVCR Record File Path), the MPEG Quality settings, and the Audio setings.

Snap Shot: here is where you can set the size of your captured images, plus single or two field captures. Audio: your audio settings are configured here.

Color: adjust the color of your TV picture here. If you cannot hear audio

If you cannot hear audio when the WinTV application is running, check the following:

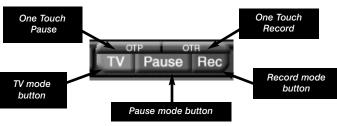
- Click on the WinTV applications' audio configuration button **AUD** and make sure the Audio Mixer Input is set to Wave.
- Open the Volume control menu (double click on the small speaker icon in the lower right hand corner of your PC screen). Make sure Wave is not muted and the level is about half way up.
- If you do not see a Wave listed in the Volume control menu, click on Options / Properties in this menu and under Show the following volume controls put a check mark next to Wave. This will add Wave to the list of devices. Click OK and then you should see Wave listed. Once again, make sure Wave is not
- muted and the volume is half way up. If you do not hear audio when playing back a recorded video file (or do not hear audio when in the Pause mode), then open up the Windows Volume Control Mixer and make sure Wave is

Watch TV, Pause and Record There are three buttons to control the Watching, Recording and

Pausing of TV. Clicking on the Pause button will cause the Pause menu to roll down from the WinTV2000 application, while clicking on the Rec button will cause the Record menu to roll down The One Touch Pause (OTP) button prepares the WinTV-PVR for

pausing live video (see Pause mode below).

The One Touch Record (OTR) button will start a record session. If you click **OTR** more than once, a record timer will be set and the recording will be done for 15 minutes for each time the OTR button is clicked. For example, if you click the OTR button 3 times. the WinTV-PVR will record for 30 minutes.



Quick instructions on recording and pausing your TV shows

If you want to record a TV show you are watching:

- Click the *Record* button to lower the record and play menu - In the Record menu, click the red record button to start recording
- When you are finished recording, click the stop button
- Click the **Play button** to play the video you just recorded - To play a video you recorded earlier, click the *File* button and then move your mouse and click once on the video you want to play. Click Open and then the Play button. For more instructions, see the

section entitled Record mode. If you want to pause a TV show you are watching:

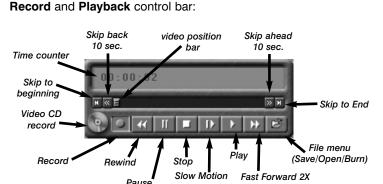
- Click the Pause button to lower the pause menu. After about 15 seconds, your screen will stop and the Time counter will start counting.
- To start the video from where you paused, click the **Play button**
- To pause the video again, click the Pause button
- To rewind the video to the beginning, click the Skip to the beginning button. If your video was paused, click the Play button.

To rewind the video 10 seconds, click the **rewind 10 seconds button**. If your video was paused, click the Play button.

For more instructions, see the section entitled Pause mode.

Record Mode

Click on the Record button on the WinTV2000 application to open the



Time counter

The time is specified in a **Hour:Minute:Second** format. When Recording, the time of the recording will be displayed. On playback, the current position time and the total time in the video being played will be displayed.



Clicking the Record button will automatically generate a file name and start recording your audio/video program. The quality of the video recording and the directory where the files are stored are set in the MPEG Configuration Menu by clicking the PREF button / Movies / MPEG (see the section entitled "Configuring the format for MPEG compression").

ote: it takes about 20 seconds for the recorder to initialize. Do not click any WinTV buttons while the record mode is initializing.

While recording:

- Live video continues to play in the WinTV window
- The Counter will display the length of your recording If you had started recording with the OTR button, and had clicked it
- more than once, the total time for the recording will be displayed The recorded video file is saved in the DVCR Recorded File Path which can be configured from the MPEG Configuration Menu. Everytime you

record a file, a new file is automatically created. The first file will be _dvcr001.mpg. The second file will be _dvcr002.mpg and so on.

The quality of the recording is configured from the **MPEG** Configuration Menu (see the section entitled "Configuring the format for MPEG compression"). There are several video qualities: VCD plus MPEG-2 2.0, 4.0, 6.0 MBit/sec, etc. The highest quality is MPEG-2 6.0 MBit/sec, and the least is VCD.

Clicking the Stop button will stop your recording, and then saves the

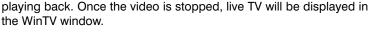
recorded audio/video file to disk using the automatically assigned file

name. The Counter will be reset to 00:00:00 after the file is saved.

VCD Record button:

Clicking the VCD Record button will automatically generate a file name and start recording your audio/video program using the VCD record quality. This button makes it easy to save VCD quality video, for burning later on to a Video CD (CD-R or CD-RW). To burn a Video CD, see the section entitled "Creating Video CD's".

Clicking the **Stop** button will stop the video you are recording or



Play button:

Stop button:

Clicking the Play button in Record mode will play the last video file created. When playing back a video, you can rewind, fast forward, replay 10 sec or forward 10 sec using the buttons on the time slider. When playing video files, you can quickly skip to sections of your video by hitting the 0 to 9 buttons on the remote (or your keyboard). When you hit '1' you will skip to 10% of the length of the video. When you hit '2' you will skip to 20% of your video.



Clicking the Pause button while Playing will pause your audio/video file. Clicking the Pause button again will continue the playing.



Rewind button:

Clicking the **Rewind** button while playing will play the video file in reverse at 1x speed. Clicking the Rewind button again will continue the playing.

Fast Forward button:

listed and not muted

Clicking the Fast Forward button one time will fast forward your video at 2X speed. Clicking the Fast Forward button two times will



Slow Motion button: Clicking the Slow Motion button while playing will play the video in Slow Motion. To start playing your video file at the normal speed,



Clicking the File button opens the File menu. The last file recorded is listed in the **File name** box.

- In the File menu you can: Rename your recorded video file. To rename a video file, find the file you would like to rename (remember, the automatically generated file names start with dvcr), highlight it with your mouse, and click and hold the right mouse button. Go down to **Rename** and then you can type in a new name. Remember:
- Play a video file previously recorded: find the file you would like to play, highlight it with your mouse (one click of the mouse
- Delete recorded video files which you no longer want (and which consume hard disk space). Click your right mouse button on the video file once, go down the menu and click on Delete.

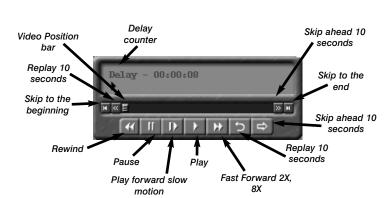
Pause mode

Clicking the Pause button on the WinTV2000 application starts the

ote: It takes about 10 seconds to create a pause buffer. While the buffer is initializing, do not click any buttons on the WinTV application.

Pause buffer:

The **Pause buffer** is a circular buffer on your hard disk. The maximum amount of time which your TV program can be delayed is dependent upon how much storage space you have set for the Pause buffer and which type of MPEG format you have chosen. Both



of these can be set in the MPEG settings menu (see the section entitled "Configuring the format for MPEG compression"). The Limit Pause Mode buffer size sets the maximum size of the Pause buffer. Here are some suggested sizes:

if you are using MPEG-1 - VCD format, 650 MBytes per hour are used. So if you want a 1/2 hour buffer, then set the Limit Pause Mode Buffer Size to 325 MBytes.

if you are using MPEG-2 4.0MB/sec, about 2 Gigabytes per hour is used for the Pause buffer. So for a 30 minute buffer, then set the Limit Pause Mode Buffer Size to 1000 MBytes.

Delay counter: The Delay counter displays the amount of time the video window is currently delayed from live video. For example, if the delay counter says "00:01:23", then the video window is showing video 1 minute and 23 seconds behind live video.

Pause button:

Clicking the Pause button causes WinTV to start saving a audio and video stream (referred to as an A/V stream) into the WinTV's Replay Buffer. It takes about 15 seconds for the Replay Buffer to be initialized and for Pause to become effective.

Unclicking the Pause button will cause the audio/video program to start playing from the point where the button was originally pushed. Most WinTV functions are active while in the Pause or Pause Live mode. For example, you can change volume, resize the TV window, go into "notitle mode", etc. If you are in the Pause mode though, the video image in the WinTV window is frozen so you will not see the function change. For example, in **Pause** mode if you change volume you will not hear the volume change.

While in Pause mode, the Video Position bar shows the amount of the Replay Buffer which is filled with video. For example, if the Video Position indicator shows halfway, it means that half of the

fast forward your video at 8X speed.

click the Slow Motion button again.

File button:

you must keep the MPG extension on the file.

button) and click Open. Then click the Play button.

Pause mode. The Pause Menu will drop down.

Replay Buffer is filled. If you find you cannot Replay or Pause as many minutes as you would like, there is a setting in the Preferences menu where you can increase the size of the Replay Buffer. While in Pause mode, the A/V stream is always saved in the Replay Buffer. To stop saving the A/V stream in the Replay Buffer, you must exit the Pause mode by clicking the TV mode button.



Replay button:

While in the Pause mode, hitting the Replay button acts like the Instant **Replay** you see on TV broadcast sporting events: the audio/video goes back in time and you repeat what you have previously seen.

Each click of the **Replay button** causes audio/video to go back 10 seconds. For example, if you want to repeat the audio/video you saw 10 seconds ago, you would click the Replay button once. If you want to see the video you saw one minute ago, you would need to click the Replay button six times.

For extended replay times, you might find it more convenient to grab the Video Position indicator control bar and move it to the left. Once you let the control bar go, audio/video starts to play (it might take a few seconds for the WinTV application to start playing). You might have to move the Video Position indicator to the left and right to find the desired spot to start replaying audio/video.

While replaying, your audio/video program continues to be recorded in the Replay Buffer. Therefore, if you have clicked the Replay button 3 times (so that you are replaying the audio/video seen 30 seconds ago), the video you see in the WinTV window will be 30 seconds behind the "live" audio/video program.

To catch up to the "live" audio/video program, you can either exit the Pause mode by clicking the TV mode button, you can click the Skip button, which skips ahead 10 seconds per click, or you can grab the Video Position indicator and move it to the right until it is at the end of the Video Position bar.



Skip Ahead button

Clicking the Skip button will skip the video ahead 10 seconds.



Rewind button:

Clicking the **Rewind** button while playing video will rewind the video. Clicking the **Rewind** button again will continue playing.



Fast Forward button:

Clicking the Fast Forward button one time will fast forward your video at 2X speed. Clicking the Fast Forward button two times will fast forward your video at 8X speed.

Slow Motion button:

Clicking the Slow Motion button while Playing, will play the video in slow motion. Clicking the **Slow Motion** button again will continue playing normal.

Configuring the MPEG compression format

To set the directory where your video recordings will be stored, click the PREF button (Preferences menu) on WinTV2000, then Capture

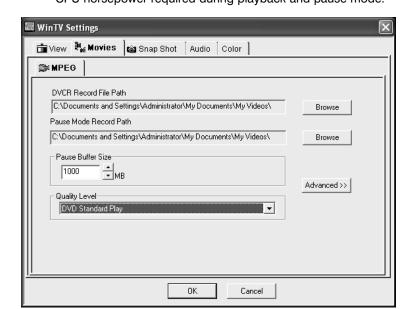
and then on the MPEG tab. Set the **DVCR File Path** to directory where you would like to store

your video recordings. The default is My Documents / My Videos. The WinTV-PVR supports several formats for MPEG video compres-

sion, called Quality Levels. The differences in these formats are: The higher the datarate, the better the video quality you see

from live TV and your recordings. The higher the datarate, the

more disk space which will be required. CPU horsepower required during playback and pause mode.



To configure the MPEG Quality Level, on WinTV2000 click the PREF button (Preferences menu), then Capture and then the MPEG tab. Here are the video formats and the amount of disk space per hour

The compatibility when creating DVDs, Video CD's or S-VCD's.

MPEG1 VCD .65 Gigabytes/hour MPEG2 2.0MBits/sec (Full D1) .9 Gigabytes/hour MPEG2 2.0MBits/sec (Half D1) .9 Gigabytes/hour MPEG2 12.0 MBits/sec (Full D1) 5.4 Gigabytes/hour MPEG2 12.0 MBits/sec (CBR) 5.4 Gigabytes/hour DVD Standard Play 8.0Mbits/sec 3.1 Gigabytes/hour DVD Long Play 6.2Mbits/sec 2.4 Gigabytes/hour DVD Extra Long Play 2.5 Mbits/sec 1.2 Gigabytes/hour SVCD Standard Play 2.5Mbits/sec .8 Gigabytes/hour

Note: CBR is constant bit rate, VBR is variable bit rate.

Which record format should you use?

used:

If your PC has a USB 2.0 connector, you can use any of these formats. If you would like to burn a DVD, then chose either DVD Standard Play, DVD Long Play or DVD Extra Long Play. DVD formats record at 720x480 (720x576 with PAL video sources) using 48.0 kHz stereo audio. If you are using a PC with a USB 1.1 connector, use the DVD Standard Play or DVD Extra Long Play, or any of the SVD formats. For creating Video CD's for playback on your home DVD player, chose the MPEG-1 VCD format.

If you want to watch the recorded video on your PC, for the best video quality chose MPEG2 12.0MB/sec or DVD Standard Play. If you do not have much disk apace, try the MPEG-2 2.0MB/sec.

SVCD is a nice compromise between video quality and hard disk space. Video is recorded at 480x480 (480x576 for PAL video) at a datarate up to 2.5Mbits/sec.

Once chosen, the Quality Level format is set for both the Pause and Record modes. The format cannot be changed while Recording or while in the Pause mode.

Using WinTV-Scheduler

WinTV-Scheduler allows you to schedule your TV watching and recording of TV shows. WinTV-Scheduler, once it is set, can be closed and the WinTV application will "wake up" at the desired time and tuned to the desired channel. WinTV-Scheduler can be found in the Hauppauge WinTV folder. Click Start / Programs / Hauppauge



WinTV and then Scheduler.

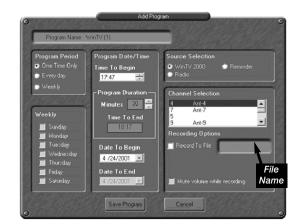
Once WinTV-Scheduler is running, to set up an event for timed watching or recording, click on the Add Program button.

The items that need to be set for each event are:

Time to Begin Program: set to the desired start time. The default time is about 3 minutes from the current time. Click on the hour to set the hour, the minute to set the minute and the second (if you feel this is necessary) to set the minute to start the program.

Note: it takes about 1 minute to launch the WinTV and set up for recording, so set the Time to Begin Program to 1 minute before the time your TV show actually starts.

- **Program Duration:** Set to the duration, in minutes, of this event. **Note:** you need to leave at least 1 minute between scheduled programs to give the recorder time to set up its disk buffers.
- Program Period: one time, daily, weekly
- Date to Begin Program: today's date is the default. Change this if you want to schedule on another date
- Source selection: leave set at WinTV32 to bring up the WinTV at the requested time and on the requested channel.



Channel selection: chose one of your scanned channels.

Recording options: click on **Record to File** to record your show. Leave this button unchecked to watch TV at the requested time. You can also **name your file** to record, in the above dialog box.

Once these are set, click **Set Program**. You can add more **Events**, clicking **Set Program** after each event is set. When you are finished click **Close**.

The **WinTV** program does not have to be running for the schedular to work. If WinTV is not running, it takes about 30 seconds to start WinTV and to start the recording of TV.

WinTV-PVR remote control

The WinTV-PVR's remote control software is installed automatically during the installation of the WinTV applications. You will see the WinTV Remote icon in the Device Tray. The installation will add a shortcut to IR.EXE to the Startup group, so that IR.EXE is loaded

Audio mute

2 3

4 5 6

7 8 9

* 0 #

0000

Hauppauge!®

Go button

Application

Channel

every time after Windows has booted. If you need to restart the remote control, run IR32.EXE from the WinTV directory.

Some remote control **buttons**

TV button: when WinTV is closed, this button starts the WinTV application. Once WinTV is running, this button makes TV go full screen, or back to "TVin-a-window'

Radio button: starts the WinTV Radio application. 0 - 9 buttons: When playing back a recording, the "1" button will skip to 10%, the "2" button 20%, etc. of the length of the record-

Skip ahead button: holding the skip ahead button advances the video about 5 minues per 10 seconds the button is depressed.

Skip back button: pressing and holding the Skip back button makes the video go back about 5 minutes for every 10 seconds the button is depressed.

Go button: brings up the WinTV task list. Allows you to start WinTV2000, WinTV32 or WinTV-radio.

Menu button: brings up the Windows Task list. Use the left and right arrows to change to other Widnows tasks.

Green power button: if WinTV is running in "Record" mode, this button will put WinTV into the "TV" mode" and close the record/playback menu. If WinTV is in "TV mode", this button will close the WinTV application.

Checking the function of WinTV's IR Remote

WinTV's Remote application, IR.EXE, is loaded every time Windows is booted. You will see a **Remote icon** in the device tray. To check the remote control operation, point the Remote transmitter at the Remote control receiver. When you click the TV button on the Remote transmitter, after 3-4 seconds the **Remote icon** should flash. indicating that the Remote application is running. After the Remote icon flashes, the WinTV application will be run.

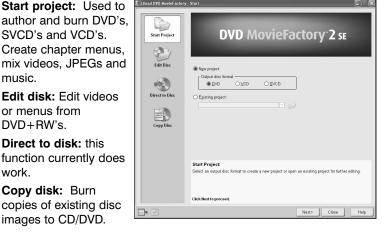
Ulead DVD MovieFactory 2SE

Start project: Used to author and burn DVD's, SVCD's and VCD's. Create chapter menus, mix videos, JPEGs and

Edit disk: Edit videos or menus from DVD+RW's. Direct to disk: this

music.

work. Copy disk: Burn copies of existing disc images to CD/DVD.



Making DVDs from your WinTV-PVR recordings DVD players which are compatible with CD's and MP3's can also

read DVD's burned using MPEG video files created with the WinTV-

PVR. If you plan to burn a DVD, you should use either the "DVD Standard Play", the "DVD Long Play" or "DVD Extra Long Play". These formats will allow you to make DVD's with the following recording lengths:

DVD Standard Play: 1 hour 30 minutes DVD Long Play: 1hour 50 minutes

DVD Extra Long Play: 4 hours

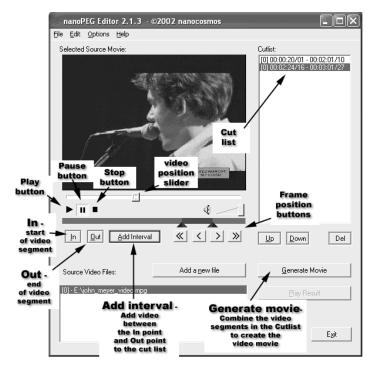
WinTV MPEG Editor

The Hauppauge MPEG Editor is an MPEG1/MPEG-2 cut and join editor. You can cut out segments from videos, or combine videos (of the same MPEG format) together. The MPEG editor makes its cuts on what are called "MPEG I-frames". These types of cuts do not require a re-encode, and therefore preserves the quality of the original video.

You will find the WinTV MPEG editor by clicking Start / All Programs / MPEG Tools for Hauppauge / nanoPEG Edition

This version of the MPEG editor has these features:

- Edit (cut) MPEG1 or MPEG2 files.



Join MPEG files of the same resolution and bit rate

- Remultiplex Video CD compatible files so they can be "burnt"
- Remultiplex S Video CD compatible files so they can be "burnt" into SVCD's
- Split large MPEG videos into pieces, so that these can be burned onto CD-ROM or DVD media
- Has a "play" option so you can play the file you have just edited without having to close the editor

How to use the WinTV Editor:

Click on the Add source button or click on File / Add source to bring the file you want to edit into the MPEG editor. The WinTV-PVR uses the c:\My Documents\My Videos directory as the default directory to save video files created by the WinTV-PVR. When the selected file is opened, it will start playing back in the video window. Click the Stop button to stop playback.

Grab the video position slider, and move it to the beginning of the video segment you want to keep. The video frame will be shown in the video window. You can also use the controls under the video window (play, pause, stop and the frame control buttons).

When you have correctly positioned to the video frame you want, click

the In button. This will define the starting point of the video interval. Grab the video position slider and move it to the end position of

the clip you want to keep, then click the **Out button**.

change the file name of your recorded file.

Click Add Interval to add the defined clip to the cut list. Repeat until you have put all the desired video clips in the "cut list".

When you have finished with your cut list, click the Generate output button. All intervals in the cut list will appear in the final video. The Generate Output step normally takes awhile.

Your MPEG video is named nanoEDIT.mpg. Be sure to rename this before cutting another video, otherwise the file will be overwritten! Before you click **Generate Output**, click **File / SelectOutputFile** to

To cut away an advertisement, click the In button at the beginning of the video sequence, then click the **Out button** just before the advertisement starts. Click Add Interval. Then click the In button at the end of the advertisement, and click the **Out button** at the end of the video

sequence you want to keep. Then click Add interval. To cut away advertisements from a movie, you must define all pieces you want to keep (everything which belongs to the movie) and add

them to the cut list.

Tips on System Optimization:

Under Windows 98SE, these are tips that will help you improve capture and playback performance of video files on you PC. In general, these are not needed for Windows XP.

- 1.) Do not use DoubleSpace or any other disk compression scheme! This severely slows down your hard disk.
- 2.) Make sure DMA is checked for your Hard disk drives in **Device** Manager. Right click your mouse on the My Computer icon on your desktop and click on **Properties** Click on the Device

Manager tab

and double click

- General Settings Driver GENERIC IDE DISK TYPE01 DMA 7 V OK Cance
- on Disk Drives. Highlight GENERIC IDE DISK TYPE and click on Properties. Click on Settings. Make sure DMA is selected. 3.) Turn off screen savers, Disconnect from a local area network,
- and any programs in your windows startup. 4.) Defragment your Hard Disk. To Defragment your hard disk, in Windows click on Start / Programs / Accessories / System Tools and click on Disk Defragmenter.
- 5.) There are several hard disks on the market which are designed for higher performance video captures. These drives use 1:1 interleaving and track caching to eliminate gaps caused by a hard disk drive seeking to the next track. They are available with both IDE and SCSI interfaces.

Troubleshooting

Note: Our FAQ can be found at:

http://www.hauppauge.com/pages/support_faq_pvrusb2.html

Problem: "WinTV initialization error" or "Error Code 10: This device cannot start"

- 1. Make sure that the WinTV-PVR-USB2 device is plugged in directly to the PC's USB1.1 or USB 2.0 port and not a USB HUB.
- Check in Device Manager to see if the Hauppauge WinTV PVR-USB2 Encoder is listed in "Sound, video, and game con-

If it is, unplug the power from the WinTV-PVR-USB2 and restart the computer. After your PC is rebooted, plug WinTV-PVR-USB2 in again and run WinTV-2000.

- If WinTV-PVR-USB2 is not listed, unplug the PVR-USB2, restart the PC and uninstall the drivers and software using HCWCLEAR (HCWCLEAR can be found on the WinTV Installation CD). After running the HCWCLEAR program, plug the WinTV-PVR-USB2 into your PC or laptops USB port (USB 1.1 or 2.0) and reinstall the drivers/ and applications.
- 3. Try WinTV-PVR-USB2 in another USB port.
- Try changing the Memory Usage setting. Open Control Panel and go to System then click on the Advanced tab. In the Performance section click on the Settings button, then the Advanced tab. In the Memory Usage section, choose Programs instead of System Cache.
- 5. Make sure that the latest drivers for your VGA card are installed. If error still continues, it may be defective and would require a replacement

Problem: WinTV2000 locks up

The WinTV-PVR-USB2 must be power cycled in order to be reset. Unlike PCI cards, rebooting the PC or laptop will NOT reset the unit. The only way to reset WinTV-PVR-USB2 is to unplug the WinTV-PVR-USB2 from the power cable for a few seconds then re-plugging it.

Problem: Black screen after scanning channels

If the channels are scanned in properly, they should be listed in the Suite Manager and the first channel detected should be displayed in the WinTV2000 window. If you do not see video:

- 1. If you get a black screen after scanning for channels, but you can hear the audio, try closing and reopening the WinTV2000. If this doesn't work, try changing the MPEG settings in the Preferences. Click on *Pref* in the WinTV2000 application and go to Capture - MPEG and change the Quality Level and click OK. After getting video to display you can reset Quality level to
- Run Primary.EXE and set to Force Primary. Primary will allow video to be displayed with a wider range of graphics adapters.
- 3. Rerun SMD04.exe from the WinTV-PVR-USB2 Installation CD-

ROM. This program can be found in the SMD directory on the CD-ROM.

Problem: "iVac driver not found"

iVac is the MPEG encoder chip used in the WinTV-PVR-usb2. Usually unplugging and reconnecting both the Power and USB cable from the USB unit should get rid of this error. After reconnecting the device, try installing the application. You will need to reboot the system during installation. Once installation finishes, you should be able to use the WinTV2000 program.

Problem: Remote control does not respond

1. Unplug the power to the WinTV-PVR-USB2. Replug the power in. This resets the IR receiver circuit inside WinTV-PVR-usb2. Run "Restart IR" from the Hauppauge WinTV directory on your PC.

Click the Go button. You should see the WinTV Remote menu

- 2. If the remote control still does not work, test your remote control: Point the remote control at the WinTV-PVR-USB2 (the remote control receiver is just below the IR icon on the top of the WinTV-PVR-USB2 case)
- pop up on your PC screen. 3. Restart the IR remote application:

icon.

Click Start/Programs/HauppaugeWinTV/Restart IR Look in the lower right hand corner of your VGA screen (the Windows toolbar). There should be a small **remote control**

Point your remote control at the IR icon on the WinTV-PVR-USB2 and then click the Go button. You should see the WinTV Remote menu pop up.

Problem: Poor image when running WinTV in 256-color

If the remote control still does not respond, contact Tech Support.

Many VGA's cannot run WinTV in 256-color mode. Instead, run in

16-bit or 24-bit color mode.

Problem: Poor TV Reception or Not detecting all channels:

Poor TV reception is generally the result of an insufficiently strong TV signal. When using a 'roof-top' antenna, an aerial booster may be required if there is poor TV reception. If you find that some or all of the channels have not been detected, you can insert channels manually. Also, in some areas using cable TV, a format called Cable HRC is used. If so, try rescanning (see Rescanning for channels) but use CABLE (HRC) instead of cable in the Broadcast/Cable box.

Tip: To see if your driver installation was successful

To check if your installation was successful, click on Start/Settings/ControlPanel then click on the System icon (can also be found in the "Performance and Maintenance" section). In the Hardware tab click the Device Manger button, go to Sound, Video and Game Controllers and check that it has the line: Hauppauge WinTV PVR USB2 Encoder.

FCC Statement

Radio Interference Statement:

The WinTV has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the follow

- reorient or relocate the receiving antenna.
- increase the separation between the equipment and receiver. connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help. FCC ID: H90WINTV Assembled in Malaysia

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance to the FCC Rules could void the user's authority to operate the equipment.

CE Statement:

This equipment has been tested and complies with EN 55013, EN 55020 and IEC 801-3