WinTV-PVR-150 WinTV-PVR-250 WinTV-PVR-350

Personal Video Recorder **Quick Installation** Guide

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QI-PVRPCI-150250350-V2.0-ENG Sept. 5, 2004

Installing the WinTV-PVR-150/250/350

The WinTV-PVR-150, WinTV-PVR-250 and WinTV-PVR-350 are TV tuner boards with a built-in hardware MPEG encoder, designed for Windows98SE, WindowsMe, Windows2000 and WindowsXP. This guide refers to the WinTV-PVR-150/250/350 in descriptions which are common to both models.

Installation overview

cables

To install WinTV-PVR-150/250/350, you will follow these steps:

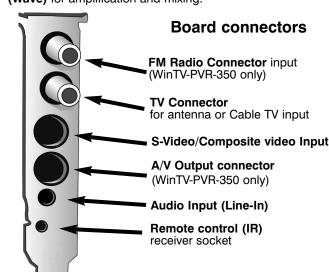
- ✓ Install the WinTV-PVR-150/250/350 board in your PC and connect the TV cables.
- After booting Windows, install WinTV-PVR Windows device driv-
- er from the WinTV-PVR-150/250/350 Installation CD-ROM. After the Windows driver is installed, install the WinTV applica-

tions from the WinTV-PVR-150/250/350 Installation CD-ROM.

Step 1: Install the WinTV-PVR board and connect the

Turn the power off on your PC. Install the WinTV-PVR into a PCI slot. On some PC's, the WinTV-PVR needs to be plugged into the first or second PCI slot. Plug your TV antenna or cable TV cable into the TV Connector.

TV audio from the WinTV-PVR is routed to your PC's sound card (Wave) for amplification and mixing.



The S-Video/composite video input can be used to bring video from a VCR, camcorder, camera, DVD player or satellite TV receiver. If your video device uses a yellow composite connector instead of S-Video, use the supplied Composite to S-Video adapter.

On the WinTV-PVR-350, the A/V Output connector is used to display live or recorded video on a TV set, VCR or camcorder. The Remote control receiver is plugged into the Remote control receiver socket. Use the Velcro dot (on the back of the Remote control receiver) to position the Remote control receiver where it will be able to receive infra-red commands from the Remote control transmitter. Add the supplied batteries to the Remote control transmitter.

Step 2: Installing the WinTV-PVR under Windows XP After installing the WinTV-PVR in your PC and booting into Windows, the Found New Hardware Wizard will appear. Insert the WinTV-

PVR-150/250/350 Installation CD-ROM in vour PC's CD-ROM drive and make sure Install the software automatically (Recommended) is checked. Then click Next.

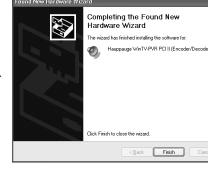


When the Hardware Installation dialog box opens, click Continue Anyway.



Click Finish.

This will complete the driver installation for Windows XP. Go to step 3.



Step 2a: Installing the WinTV-PVR driver for Windows 98SE, Me, and Windows2000

Turn the power on your PC.

When re-starting Windows for the first time after the WinTV-PVR board

has been installed, 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.

Once the **Hauppauge WinTV** video driver has been detected, Click NEXT. You will see a number of files being copied to your hard disk drive. Click Finish.

WinTV-PVR Installation CD-ROM.



Step 3: WinTV-PVR-150/250/350 Software installation After the WinTV-PVR driver has been installed, you need to run WinTV Setup to complete the installation. Run SETUP from the

Click *Install* to start the application installation. The installation requires two reboots. The installation may require a file from your

Windows CD-ROM, so keep it handy. After the Setup

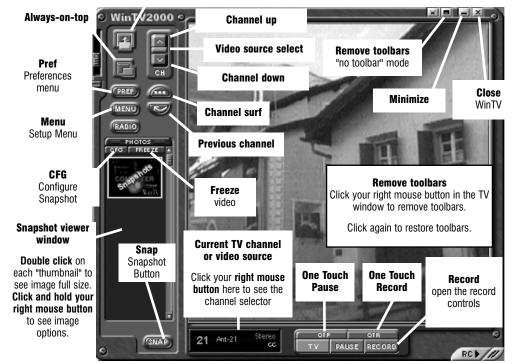
program is complete, you will see the WinTV2000 icon on your Windows desktop.



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.

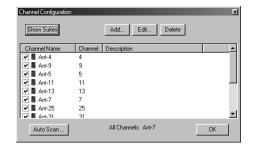
Full screen TV



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 SuiteManager.

> Click on the desired channel, then Edit. Change the ChannelName to the name of the station, change the



description or fine tune. Then click OK.

New WinTV2000 application features

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

Click the green 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).

Rescanning for channels

Click the Menu button and click on Suite Manager and 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 tuning, 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.

View: for setting the TV window size

Pref button

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.

Troubleshooting audio problems

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.

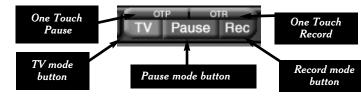
- If you do not see a **Wave** listed in the **Volume control menu**, click on Options / Properties in this menu and under Show the following volume controls put a check mark next to Wave. This will add Wave to the list of devices. Click **OK** and then you should see Wave listed. Once again, make sure 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 listed and not muted.

Watch, Pause and Record TV

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.

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

- 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

Scanning for channels

select Antenna.

or PAL N is used

select Cable (or Cable HRC). Otherwise

Choose the Video Format for your geo-

Europe uses PAL B/G

the U.K. uses PAL I

North America uses NTSC M

in South America, either PAL M

graphic region, then click on *Start*:

Click on the Record button or the OTR button on the WinTV-2000

Time counter:

The time is specified in a Hour:Minute:Second format.

application to open the Record and Playback control bar.

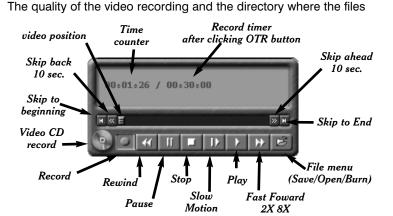
Record timer:

A timed record is started by clicking the OTR button. Each time you click **OTR**, the **Record Timer** is incremented by 15 minutes. At the end of the time specified by the Record timer, the record will stop. Also, clicking the **Stop button** will stop a timed record. The time is specified in a Hour:Minute:Second format.



Clicking the Record button will automatically generate a file name and

start recording your audio/video program.



are stored are set in the MPEG Configuration Menu (see the section entitled "Configuring the format for MPEG compression"). Click the **PREF button** on the WinTV2000 application, then clicking Capture / MPEG. In Quality Levels, the highest quality is MPEG-2 12.0 MBit/sec, and the lowest quality is **VCD**.

- While recording: Live video continues to play in the WinTV window
- The Counter will display the length of your recording

Time counter is reset to 00:00:00 after the recording is saved.

If you had started recording with the **OTR button**, and had clicked it more than once, the total time for the recording will also be displayed

The recorded video file is saved in the DVCR Recorded File Path which can be configured from the $\ensuremath{\mathsf{MPEG}}$ 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. Click the **Stop button** to stop your recording. The recorded audio/video file is then saved to disk using the automatically assigned file name. The



VCD Record Button:

Clicking the VCD Record button will automatically generate a file name and start recording your program using the VCD record quality. All other characteristics are the same as in the Record mode. This button makes it easy to save VCD quality video, for burning later on to a Video CD.



Clicking the Stop button will stop the video you are recording or playing back. Once the video is stopped, live TV will be displayed.



Play Button:

Clicking the Play button will playback from disk the last video file created. When playing a video, you can rewind, fast forward, replay 10 sec or skip forward 10 sec using the buttons on the control bar. 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.

Pause Button:

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

Rewind Button:

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



Clicking the Fast Foward button one time will fast foward your video at 2X speed. Clicking the Fast Foward button two times will fast foward your video at 8X speed. Clicking the button again will continue playing back at normal speed.

Note: with the WinTV-PVR-350, when VideoOut is turned on the Fast Forward is limited to 2X speed.

Slow Motion Button: Clicking the Slow Motion button will play video at 1/2 speed. Click the

File Button: Clicking the File button opens the File menu. The last file recorded

Slow Motion button again to play your video at normal speed.

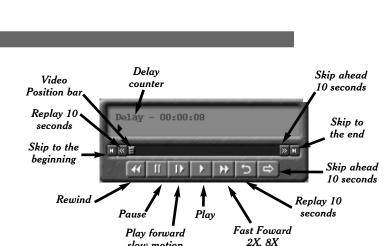
- is listed in the File name box. In the File menu you can: Rename your recorded video file. To rename a video file, find the file you would like to rename (remember, the automatically generated file names start with _dvcr), highlight it with your mouse, and click and hold the right mouse button. Go down to **Rename** and then you can type in a new name. Remember: you must keep the MPG extension on the file.
- Play a video file previously recorded: find the file you would like to play, highlight it with your mouse (one click of the mouse button) and click Open. Then click the Play button.
- 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 or OTP button on the WinTV-2000 application starts the Pause mode. The Pause Menu will drop down.

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

Pause buffer:



The Pause buffer is space on your hard disk where video is stored during the Pause mode. 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").

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. The Limit Pause Mode buffer size sets the maximum size of the Pause buffer. Here are some suggested sizes:

- If you are using MPEG1 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.

The **Delay counter** displays how much time you are behind the 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:

Delay counter:

Clicking the Pause button or OTP button causes WinTV to start recording into WinTV's Replay Buffer. It takes about 10 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 "no-title mode", etc.

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 Replay Buffer is filled. If you find you cannot Pause as many minutes as you would like, 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.



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 WinTV2000 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.



Skip Ahead Button

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



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



Fast Foward Button:

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

foward your video at 8X speed.

Slow Motion Button:

Clicking the **Slow Motion** button while playing video will play in Slow Motion. Clicking the Slow Motion button again, will continue playing normally.

MPEG compression formats & record directories

To set the directory where your Tiew Movies Snap Shot Audio Color video recordings © MPEG will be stored, click the PREF button Pause Mode Record Path (Preferences menu) on 1000 ÷ ME WinTV2000, then Capture and then on the MPEG tab. Set the **DVCR File** Path to directory where you would

Browse OK Cancel like to store your video recordinas.

The WinTV-PVR supports several formats for MPEG video compression, 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.
- The compatibility when creating Video CD's or S-VCD's.

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 used:

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 The WinTV-PVR-350 can output your "live" and recorded video to an external video monitor or video recorder. With the Video Output fea-

Video output (WinTV-PVR-350)

ture of the WinTV-PVR-350, you can: Watch your TV shows on an external TV set, pausing or record-

SVCD Standard Play 2.5Mbits/sec .8 Gigabytes/hour

If you would like to burn a DVD, then chose either DVD Standard Play,

720x480 (720x576 with PAL video sources) using 48.0 kHz stereo audio.

video quality chose MPEG2 12.0MB/sec or DVD Standard Play. If

DVD Long Play or DVD Extra Long Play. DVD formats record at

If you want to watch the recorded video on your PC, for the best

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

For creating Video CD's for playback on your home DVD player,

Once chosen, the Quality Level format is set for both the Pause and

Record modes. The format cannot be changed while Recording or

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

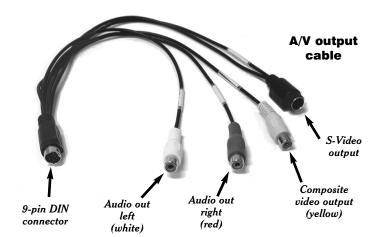
Which record format should you use?

datarate up to 2.5Mbits/sec.

while in the Pause mode.

chose the MPEG1 VCD format.

- ing just as you could when watching TV on your VGA monitor
- You can record a TV show, and then play it back to your TV set.
- Record your home videos, edit them with WinTV Editor, and then watch them on your home TV set.



WinTV-Scheduler

Connecting the A/V cable to a TV set:

set (not supplied).

and holding your

4. Turn on the video output 4 x 3

feature in the WinTV2000

application by clicking

RIGHT mouse button

on the WinTV window,

and then clicking On.

Note: some TV sets do not

have S-Video or Composite

it MUST have S-Video or

audio input jacks.

jacks. To connect to a TV set,

Composite video inputs, plus

Forward is limited to 2X speed.

clicking on Video Output

"keyed" so you cannot plug it in backwards.

1. Plug the 9-pin DIN connector on the A/V output cable into the

2. The A/V cable has an S-Video output connector (black) and a

3. The A/V cable has Audio out left (white) and a Audio out right

(red) jack. Connect these to the audio input jacks on your TV

Select Channel

Select Suite

Display

Options

Configure

Video <u>O</u>ut

✔ On

✓ PlayLocal

plied) between your TV set and the A/V output cable.

A/V output connector on the WinTV-PVR-350. This connector is

Composite output connector (yellow). Some TV sets have S-Video inputs, and others use Composite connectors. Chose the

correct one for your TV set, and connect a video cable (not sup-

WinTV-Scheduler allows you to schedule the 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.

Note: with the WinTV-PVR-350, when VideoOut is turned on the Fast

After installation, WinTV-Scheduler can be found on your desktop. WinTV-Scheduler works by using the Windows Task Scheduler to launch WinTV at the chosen time. WinTV-Scheduler sets up a command line in Task Scheduler to run WinTV2000, specifying a TV channel and a length of time to record.

To set up an event for timed watching or recording, run WinTV-Scheduler and click on the Add Program.

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

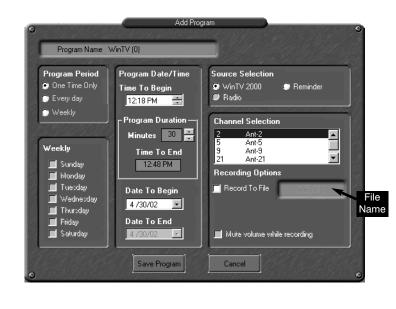
Time to Begin Program: set to the desired start time. The

default time is about 3 minutes from the current time. Click on

5:55:01 PM 09:00 PM Wednesday, August 30, 2000 WinTV Ch. 5 0 WinTV Program (3) HAUPPAUGE

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 10 seconds to launch the WinTV and set up for recording, so set the Time to Begin Progam to 10 seconds before the time your TV show actually starts.

- Time to End Program: set to the time to end this event. Note: you need to leave at least 30 seconds between scheduled programs to give the recorder time to set up its disk buffers.
- Program Period: one time, daily, weekly
- Date to Begin Program: todays date is the default. Change this if you want to schedule on another date.
- Source selection: leave set at WinTV2000 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 dialog box below.

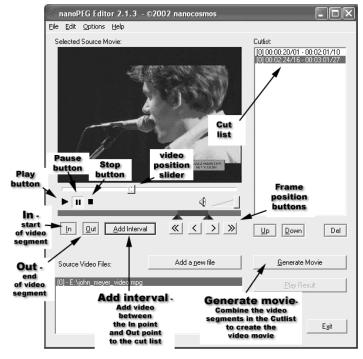
Once these are set, click Set Program. You can add more Events, clicking Set Program after each event is set. When you are finished click *Close*. The WinTV program does not have to be running for the Schedular to work. If WinTV is not running, it takes about 10 seconds to start WinTV-PVR and to start the recording of TV.

WinTV MPEG Editor

The Hauppauge MPEG Editor is an MPEG1/MPEG-2 cut and join editor. You can cut 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.

This version of the MPEG has these features:

- Edit (cut) MPEG1 and 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**.

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

change the file name of your recorded file. 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

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.

sequence you want to keep. Then click Add interval.

Remultiplex File for VCD

Note: If you have an VCD file open, when you click on Generate Movie, the file will be saved as a "burnable" VCD file. But if you have a VCD file on your PC and would like to simply make it burnable, use

You will be prompted for a File name. Enter the name of a file which has VCD characteristics (MPEG-1, datarate not exceeding 1.1Mbits/sec, etc.). Next, enter the name of the "burnable" VCD file to be written. The file will be remultiplexed into a "burnable" VCD for-

Note: If you enter the name of a file which is not VCD compliant, an error message will pop up.

Remultiplex File for SVCD

If you have a SVCD file on your PC and would like to make it burnable onto a SVCD, use this option.

You will be prompted for a File name. Enter the name of a file which has SVCD characteristics (MPEG-2 with 2.2Mbits/sec datarate, 44.1KHz audio and 480x480 image sizes for NTSC video sources). Next, enter the name of the "burnable" SVCD file to be written. The file will be remultiplexed into a "burnable" SVCD format.

error message will pop up.

Ulead DVD MovieFactory 2SE Start project: Used to author and burn DVD's, SVCD's and VCD's.

Note: If you enter the name of a file which is not SVCD compliant, an

Create chapter menus, mix videos, JPEGs and music.

Edit disk: Edit videos or menus from DVD+RW's Direct to disk: not used.

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

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 every time after Windows has booted

If you need to restart the remote control, run IR32.EXE from the

C:\Program Files\WinTV directory.

To install the IR Remote receiver:

- Turn off your computer. Plug the sub-mini jack at the end of the IR Receiver cable into the Remote control (IR) receiver socket of the WinTV-PVR.
- Place the IR Receiver on your desktop so that the infrared light from the IR Remote transmitter can reach the IR Receiver.
- Turn on your computer.
- If you have previously installed the **WinTV applications**, the IR software should automatically run, and you will see the WinTV Remote icon in the Device Tray.

Quick

Some remote control but-

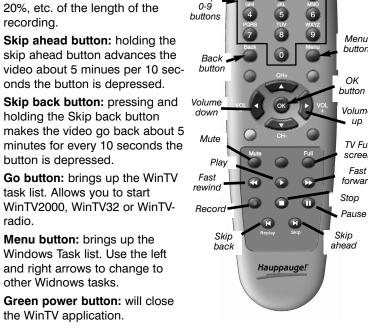
0 - 9 buttons: When playing back a recording, the "1" button will skip to 10%, the "2" button 20%, etc. of the length of the recording.

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

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

other Widnows tasks. Green power button: will close

the WinTV application.



menu

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.

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-

If you plan to burn a **DVD with MovieFactory** or any other DVD authoring software package, 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 on DVD+R/RW disks DVD Long Play: 1hour 50 minutes on DVD+R/RW disks DVD Extra Long Play: 4 hours on DVD+R/RW disks

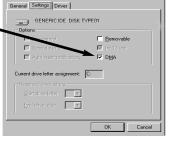
Tips on System Optimization:

These are tips that will help you improve capture and playback performance of video files on you PC.

- 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 on Disk Drives. Highlight GENERIC IDE DISK TYPE and click on Properties. Click on Settings. Make sure DMA is selected.
- 3.) Defragment your Hard Disk. To Defragment your hard disk, in Windows click on Start / Programs / Accessories / System Tools and click on Disk

4.) You can use 7200 RPM disk drives. Also, 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

Defragmenter.



to eliminate gaps caused by a hard disk drive seeking to the next track. They are available with both IDE and SCSI interfaces.

Troubleshooting

Installation tips and software updates can be found at : http://www.hauppauge.com/pages/support_pvr250-350.html http://www.hauppauge.com/pages/support_pvr150.html Our FAQ can be found at:

http://www.hauppauge.com/pages/support_faq_pvr250-350.html

Error: "No common media type between these pins" The WinTV-PVR uses your PC's processor to display the TV image. If the processor is too slow, or if there is something in the system which is taking system resources, you might get this message. Check the VGA acceleration in Device manager. make sure it is set

to "Full". Also check your VGA resoution. You might need to bring

Error: "Error code 10" during installation

This is caused by a failure to load the WinTV-PVR drivers. Run HCWClear from the WinTV-PVR Installation CD-ROM, then reboot and reinstall the WinTV-PVR. If this still gives you an error message, move the WinTV-PVR to another PCI slot and reinstall the drivers.

Conflicts with Intervideo WinDVD

the number of Colors down one notch.

The WinTV-PVR uses a version of WinDVD to display video in the WinTV window. Sometimes we have found that a previously installed version of WinDVD will conflict with the version of WinDVD which is installed with the WinTV-PVR. Symptoms include: black screen but you can hear audio, failure to scan for channels, you can't change MPEG formats without errors, bad audio/video sync, and others. Uninstalling WinDVD will fix this problem. You uninstall WinDVD through the "Add/Remove Programs" in Control Panel. You will still be able to play DVD movies in MediaPlayer, since the WinTV-PVR

installation provides a MediaPlayer compatible DVD player. **Problem: Poor Reception or Not detecting all channels:**

Poor TV reception is generally the result of an Weak 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 but use CABLE (HRC) instead of cable in the Broadcast/Cable box.

Problem: Live TV program and video playback has a "Jerky" effect and/or lip synchronization during playback.

Make sure that DMA is enabled for IDE hard disks. See the section entitled "Tips on System Optimization" #2.

screen, e.g. blurred image. In the WinTV program group (Start / Programs / Hauppauge WinTV) there is a utility called "Primary". Set it to "Allow Overlay". If it is on "Allow Overlay", try it on "Force Primary". Some VGA cards need to

Problem: WinTV-2000 has display problems on the

Try to upgrade your VGA drivers from the manufacturer web site. How do I configure the Audio for the WinTV-PVR? Your PC's sound card is used to amplify the audio during "live" TV, record and playback. The WinTV2000 application's Volume Adjust

slidebar adjusts the volume by raising and lowering the WaveOut

volume control in the sound card.

upgrade from the latest drivers in order for it to support Overlay mode.

FCC Statement Radio Interference Statement:

The WinTV-PVR 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 inter ference to radio communications. However, there is no quarantee 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 ing measures: 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 experi-

enced radio/TV technician for help. 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.

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