WinTV-HVR-1800

PCI Express Video Recorder with dual tuners for NTSC and ATSC/QAM

Quick Installation Guide

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Contents of the WinTV-HVR-1800 package

• WinTV-HVR-1800 PCI Express board

- Hauppauge remote control receiver and IR transmitter/receiver cable (on models with Hauppauge remote control)
- WinTV-HVR-950 Installation CD-ROM including Vista drivers and WinTV v6 application with the WinTV-Scheduler

What is ATSC digital TV, and how does the WinTV-HVR-1800 work?

ATSC digital TV is a over-the-air digital TV for North America. ATSC digital TV typically requires an antenna for reception, and is currently broadcast in 200 cities, with over 1500 TV stations.

Note: ATSC digital TV is NOT digital cable TV or digital satellite TV. The WinTV-HVR-1800 cannot receive digital satellite or encrypted digital cable TV.

Note: Some cable broadcasters send ATSC digital TV on their digital networks as "clear QAM". See the section entitled "QAM reception" for instructions on tuning for QAM channels.

ATSC digital TV is transmitted in several resolutions, from "standard definition" which is similar to cable TV, up to high definition which has about 16 times the resolution of normal cable TV. In any resolution, ATSC digital TV gives sharper pictures than analog cable TV and near CD quality sound.

WinTV-HVR-1800 has a built-in analog cable TV and digital ATSC TV tuner. It uses your PC CPU for displaying both analog and digital TV programs on your PC screen.

The decoding of high definition ATSC is very processor intensive, and the smoothness of high definition TV programs depends upon how fast your PC is. Other PC activities that consume CPU resources might affect the display of ATSC digital TV. Slow video, jerky video and momentary pausing of video are all results of a CPU which is temporarily being used by other activities.

For the best ATSC digital TV reception, a roof top 'Wideband or Highgain' antenna is recommended. **TitanTV.com** has a good ATSC digital antenna selector which can be found under Resources.

Installing the WinTV-HVR-1800

WinTV-HVR-1800 is a PCI Express TV tuner board with an analog TV tuner, an ATSC/QAM digital TV tuner plus a hardware MPEG-2 encoder. WinTV-HVR-1800 is designed for WindowsXP and Windows Vista. Note: if you are running Windows Media Center application, you only need to install the WinTV-HVR Windows device driver.

Installation overview

Install the WinTV-HVR-1800 board in a PCI Express slot in your PC and connect the TV cables. For the best ATSC digital TV reception, use a high quality roof top antenna.



- ✓ After booting Windows, install WinTV-HVR Windows device driver from the WinTV-HVR-1800 Installation CD-ROM.
- ✓ After the Windows driver is installed, install the WinTV applications from the WinTV-HVR-1800 Installation CD-ROM.

Step 1: Install the WinTV-HVR-1800 board and connect the cables

Turn the power off on your PC. Install the WinTV-HVR-1800 into a PCI Express slot. Note: You cannot install WinTV-HVR-1800 into a PCI slot. Plug your cable TV into TV Connector. Plug your ATSC digital TV antenna into the ATSC Digital TV input.

The S-Video/composite video input can be used to bring video from a VCR, camcorder, camera, DVD player or satellite TV receiver. If vour video device uses composite video instead of S-Video, use the supplied Composite to S-Video adapter. Plug your composite video connector (normally yellow) into one end of the Composite to S-Video adapter and the other end into the S-Video/Composite video input connector on WinTV-HVR-1800.

The Remote control receiver/blaster cable is plugged into the Remote control socket. Use the Velcro

- Found New Hardware
Windows needs to install driver software for your Multimedia Video Controller
Locate and install driver software (recomment
Windows will guide you through the process of installing dr
Ask me again later Windows will ask again the next time you plug in your devi
Don't show this message again for this device Your device will not function until you install driver software

e again later will ask again the next time you plug in your device or log or now this message again for this device will not function until you install driver software

nd install driver software (recommended) vill guide you through the process of installing driver softw

Cancel

Step 2: Installing the WinTV-HVR under Vista

vour Windows desktop.

Boot into Windows Vista. Insert the WinTV-HVR-1800 Installation CD-ROM in your PC's CD-ROM drive.

When the Found New Hardware box opens, click Locate and install driver software

Click Continue. If you see a message which asks about searching online, click **Don't search**

an line	Setup			
Click Next . Click Close .	WinTV Setup (WinXP) Components: Install Microsoft Direct/9.0b Install the Hauppauge WinTV Application Install WinTV English Help Files & Language Resources Install WinTV English Help Files	Hauppauge!		
Step 3: WinTV- HVR Software installation	Instail wini ∨ channel wanager Instail Wini ∨ Channel wanager Instail Wini ∨ TVServices Instail Wini ∨ TVServices Instail the Hauppauge Wini ∨ Scheduler Instail the Hauppauge Wini ∨ Remote Control Application Instail The FG SW Decoders Instail Nanc Cosmos MPEO Video Editor			
After the WinTV-HVR driver has been installed, you need to run WinTV Setup to complete the installa-	Install the Hauppauge WinTV IR Blaster Application Install of the point Install Ulead DVD MovieFactory SE Configure WinTV Graphics Settings Do not use hardware graphics acceleration WinTV Product Registration			
tion. Run SETUP from the WinTV-HVR Installation CD-ROM.	Progress			
Click Install to start the application instal- lation. The installation		Install Cancel		

may require a file from your Windows CD-ROM, so keep it handy. After the Setup program is complete, you will see the WinTV icon on

Running WinTV for the first time

To run the WinTV application for watching TV, recording videos and playing them back on your PC, double click on the WinTV icon on your desk top.

When you run WinTV for the first time, a message says Would you like to scan for channels now? Click YES.

Click the **Scan button** and WinTV will automatically scan for both analog and ATSC digital TV channels. The scanning process takes about 10 minutes. The scanning process for ATSC will scan from channels 2 to 68.

The ATSC digital channels that are found will appear in the channel listing box. The Name is the name as defined by the broadcaster. The Channel number is created by the WinTV application. For ATSC digital channels, since each primary channel might have several subchannels, the channel number is calculated so that channel 22.2 would be listed as 1222. Channel 7.2 would be listed as 1072.



Troubleshooting section for information on choosing an ATSC antenna.

ote: When initially installed, WinTV-HVR-1800 uses a setting which does see the Troubleshooting section.

Rescanning TV channels

If you want to rescan for TV channels, click Menu / Suite Manager. To scan analog cable TV channels, under Sources, highlight Analog source and click Auto

To scan for digital ATSC channels, under Input Sources, highlight ATSC source and click Auto scan

During the scan for ATSC digital TV channels, the Signal Status will show a qualilevel and the locked box will be checked if a channel is detected.

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.

Selecting channels

Click your right mouse button on the Current TV channel box and you'll see a pop list of all channels. Use your mouse to select the channel you want to tune to.

Selecting an External Video source (VCR or set top box)

Click on Menu / Suite Manager and then click the Sources tab. To add a composite video source, click the Composite button, give it a Name and then click Save. To add a S-Video source, click the S-Video button, give it a Name and then click Save.

To switch to this source, click your right mouse button in the Current TV channel or video source window. You will see a list of all channels. At the end of the list you will see the name of the source you just added. Chose the source.

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

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 tabs for:

View: these are the settings for the On Screen Display of the TV channel and Audio Volume, 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 settings.

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:

V not take advantage of graphics acceleration. If you experience problems when watching ATSC digital TV channels,

scan.

antenna signal booster might be needed. After adding a signal booster, see below for instructions on rescanning and the



Setting up the channels

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



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 guick 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.

- Click on the Pref button and the audio tab and make sure the Audio Mixer Input is set to Wave.
- Open Windows 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 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 four buttons to control Live TV, Recording, Pausing and Playback of TV. Clicking on the Pause button will cause the Pause menu to roll down from the WinTV application, while clicking on the Record button will cause the Record menu to roll down.

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.

Record and Playback toolbar



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 **WinTV** application to open the Record and Playback control bar

Time counter:

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

Record timer:

A timed record is started by clicking the *Record button*. Each time you click Record, 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.

Record Button:

Clicking the **Record button** will automatically generate a file name and start recording your audio/video program.

The recorded video file is saved in the directory set in **DVCR Recorded** File Path. To set the directory, click **Pref** and then the **Movies tab**. Every time you record a file, a new file is automatically created. The file will be formatted as (source)_(Channel)_YearMonthDay_Time.

For ATSC digital TV programs, the quality level recorded is the same as it is transmitted by the TV station. For example, if the TV station is transmitting a high-definition program, WinTV will record the program in highdefinition.

For analog cable TV, the quality of the video recording is set in the MPEG Configuration Menu (see the section entitled "Configuring the format for MPEG compression"). Click Pref and then the Movies tab. In Quality Levels, the highest quality is MPEG-2 12.0 MBit/sec, and the lowest quality is DVD Extra Long Play.

While recording:

- Live video continues to play in the WinTV window. You can Pause video while it's being recorded.
- The **Counter** will display the length of your recording
- If you had started a timed recording, the total time for the recording will also be displayed

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

Pause Button:

Clicking the Pause button while Recording will pause your audio/video on screen but will continue to record the video to disk. Clicking the Pause button again will continue to play the video.

Stop Button:

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

Playback video

Click on the Play button on the WinTV application to open the Record and Playback control bar.

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.

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. Clicking the button again will continue playing back at normal speed. **Note:** Fast forward is not enabled when playing a high definition video file.

File Button:

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, 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.



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. The Pause Buffer Size can be set by clicking the Pref button and then the Movies tab (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 Pause Buffer Size sets the maximum size of the Pause buffer. For example, if you are using DVD Long Play, about 2.4 Gigabytes per hour is used for the Pause buffer. So for a 30 minute buffer, set the Limit Pause Mode Buffer Size to 1200 MBytes.

Delay counter:

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:

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 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.



Clicking the Skip button will skip the video ahead 10 seconds

Rewind Button:

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

MPEG compression formats for analog TV & record directories

To set the directory where your video recordings will be stored, click the PREF button (Preferences menu) on WinTV, then Movies. Set the DVCR File Path to directory where you would like to store your video recordinas.

When recording analog cable TV (or video from an external A/V source, the WinTV-HVR supports several formats for MPEG video compression, or Quality Levels. The higher the datarate, the better the video quality you see from live TV and your recordings. But the higher the datarate, the more disk space which will be required.

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

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) 5.2 Gigabytes/hour MPEG2 12.0 MBits/sec (CBR) 5.6 Gigabytes/hour

DVD Standard	
Play: 6.4 -	WinTV Settings
8.0Mbits/sec	💼 View 🍇 Movies 🙀 Snap Shot 🛛 Audio 🗍 Color
3.25	DVCR File Path
Gigabytes/hour	DVCR Record File Path
DVD Long	C:\Documents and Settings\Administrator\My Documents\My Videos\ Browse
Play: 4.8 -	Pause Mode Record Path Procements and Sattings Administrators Mul Documents Mul Videos Provide
6.2Mbits/sec	Didwse
2.5	
Gigabytes/hour	Advanced >>
DVD Extra Long	DVD Standard Play
Play: 3 -	
4.4Mbits/sec	Quality level
1.8	
Gigabytes/hour	OK Cancel

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

Which record format should you use?

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

video quality chose MPEG2 12.0MB/sec or DVD Standard Play. To save disk space, use DVD Extra Long Play.

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.

WinTV-Scheduler

WinTV-Scheduler allows you to schedule the recording of TV



Program Period	Brogram Date/Time	Source Selection
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	lime to Begin	Barlio
	12:18 PM 🚍	
) Weekly	- Program Duration -	Channel Selection
	31 Minutes 31	
de al de		5 Ant-5
<i>жеек</i> іу	Time To End	9 Ant-9
📕 Sunday	12:48 PM	
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Wednesday	4 /30/02 💌	
Thursday	D-t-T-T-I	7
Finday	Date To End	

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

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 WinTV, 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. Click on the hour to set the hour, the minute to set the minute. Note: It takes about 15 seconds to launch the **WinTV** and start recording.
- Time to End Program: set to the time to end this event.
- 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 WinTV 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 15 seconds to start WinTV and to start the recording of TV.

WinTV-HVR remote control (on some models)

The WinTV-HVR'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.

The WinTV-HVR-1800 includes an IR Blaster to control the channels on a cable TV or satellite

Application

set top box. Please see Go button **IR RemoteBlaster Quick** Install Guide for instrucтν tions on the IR Blaster. button Note: If you need to restart the remote control, Back/Exit run IR32.EXE from the

software should automatically run, and you will see the WinTV Remote icon in the Device Tray.

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 "TV-in-a-window".

Red record button: starts recording using the parameters set in the Pref menu.

Pause button: if watching live TV, will open the record/play menu box and pause the video. When recording, this button will pause the video but WinTV will continue to record. If playing back video, this button will pause the video playback. Click the Pause button to start playing again.

Stop button (square icon): stops the recording or playback. If in Pause mode, will exit pause.

Play button: plays the last video recorded.

Back/Exit button: will close the record, play or pause menus. 0 - 9 buttons: When in "live" TV mode, is used to directly enter channel numbers. When playing back a recording, the "1" button will skip to 10%, the "2" button 20%, etc. of the length of the recording. Skip ahead button: holding the skip ahead button advances 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.

WinTV MPEG Editor

Note: the WinTV MPEG editor cannot be used for editing digital TV recordings

The 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 reencode, 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" into VCD's

- 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-HVR uses the c:\My Documents\My Videos directory as the default directory to save video files created by the WinTV-HVR. 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**



If you have previously CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED installed the WinTV BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES **ACCORDING TO THE INSTRUCTIONS ON THE BATTERIES.** applications, the IR

video about 5 minutes 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 WinTV, WinTV32 or WinTV-radio.

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

Power button (green): 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.

Red button at bottom: closes WinTV Radio and opens WinTV. Green button at bottom: closes WinTV and opens WinTV Radio (on models with radio)

Yellow button at bottom: no current function.

Blue button at bottom: creates snapshot in live TV, pause, record or playback modes.

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

Edit Options Help Selected Source Mor [0] 00:00:20/01 - 00:02:01/10 [0] 00:02:24/16 - 00:03:01/27 Out Add Interval \ll < > \gg Up Down Del Add a <u>n</u>ew file Generate Movie Source Video Files: Out end of video [0] · E:\john meyer via Add interval **Generate movie** the In poin

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 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.

Making DVDs from your WinTV-HVR recordings

ote: The WinTV-HVR's ATSC digital TV recordings cannot currently be burnt onto a DVD. This is due to limitations of DVD media which limit recording formats to standard definition.

DVD players which are com-		
patible with CD's and MP3's	Useat DVD Noviel actory - Start	
can also read DVD's burned		
using standard definition	Star Project DVD MovieFa	actory ⁻ 2 s
MPEG-2 video files created	2	
with the WinTV-HVR.	Edit Disc New project	_
If you plan to burn a DVD	Direct to Disc.	
with MovieFactory or any		
other DVD authoring software	Copy Disc	
package, you should use		
either the "DVD Standard	Start Project.	
Play", the "DVD Long Play" or	Select an output doc format to create a new project or op	pan an existing project for furth
"DVD Extra Long Play".	Children and	

These standard definition 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

Ulead DVD MovieFactory

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

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

Direct to disk: not currently used.

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

Troubleshooting

Installation tips and software updates can be found at : http://www.hauppauge.com/pages/support_hvr1600.html Our FAQ can be found at: http://www.hauppauge.com/pages/support_faq_hvr1600.html

Some notes on system compatibility

Decoding high definition ATSC TV is very CPU intensive. A graphics

card with at least 64MBytes of memory and the latest graphics driver from the manufacturer makes the decoding task easier. Typically a 2.2 GHz Pentium 4 processor or equivalent with a graphics card having 64MBytes of memory is required to properly decode ATSC digital TV on your PC. A 1.6GHz AMD Sempron laptop computer tested in the Hauppauge lab used 50% of the CPU for playing ATSC 640i format, and 90% of the CPU when playing ATSC 1080i, the highest definition ATSC format.

In some cases, either a faster processor or more graphics memory might be required. Slow or jerky video and a noisy TV picture indicate system performance problems.

Jerky video with live ATSC digital TV

Jerky or distorted video can be caused by two things in your PC or laptop: a slow CPU which cannot decode the ATSC TV signal fast enough, and a graphics system which cannot keep up with the high datarates of ATSC TV.

Many times, improving the performance of the graphics display will fix the jerky video display of ATSC digital TV. Here are some tips on improving graphics performance:

- Use the latest graphics driver: graphics drivers are often 'tweeked' to improve performance, especially the built-in graphics on laptops. Check the Microsoft Windows update site to download the latest graphics driver for your computer. For Dell computers, check the Dell website for the latest graphics driver.
- Use Hauppauge's Primary program to optimize graphics performance: Primary.exe is used to change the display mode of a graphics card for TV watching. This does not affect any other Windows program. Primary.exe is found in the Hauppauge WinTV program group. The default mode used by WinTV is Force Primary. Force Primary uses your processor to move the digital TV image into the

9.22146 lauppauge

low Overlay Either lable) DIB Draw Note: hardware acceleration

does not work on all systems.

Note: if you have an nVidea graphics card, you can use VMR7. If this setting does not help, or if you experience WinTV not responding after a channel change, then your graphics system cannot use hardware graphics acceleration.

In this case, run Primary. Click 'Force Primary' then rerun WinTV.

Only some channels are found during ATSC channel scan

If you are only receiving some known TV channels when scanning, it means your TV antenna is not adequate to pick up the channel. You will need either an antenna signal booster (a Radio Shack antenna amplifier will work) or a high gain antenna. Here's a link to an ATSC antenna selector: http://www.antennaweb.org/aw/address.aspx

Black window when selecting an ATSC channel

A black window when selecting an ATSC channel means that the WinTV-HVR-1800 is not getting a signal. This is most often due to poor reception. See "Only some channels are found during ATSC channel scan" above.

Uninstalling the WinTV driver and applications

Run the hcwclear.exe from the installation CD. Select OK A black screen will briefly appear and once it has disappeared the software will be removed. If you now re-start the computer you will be at Step 4 of the installation.

"Error code 10" during installation

This is caused by a failure to load the WinTV-HVR-1800 drivers. Uninstall the software (as above) and then follow the instructions from page 3. If this still give you an error message, move the WinTV-HVR-1800 to a different slot and re-install the drivers again.

Error: "No common media type between these pins"

The WinTV-HVR 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 resolution. You might need to bring the number of Colors down one notch.

Conflicts with Intervideo WinDVD

Sometimes we have found that a previously installed version of WinDVD will conflict with the WinTV-HVR-1800. 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-HVR 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. 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.

How do I configure the Audio for the WinTV-HVR?

Your PC's sound card is used to amplify the audio during "live" TV,

FCC Statement

Supplementary Television Broadcasting Receiving Apparatus - Appareils supplémentaires de réception de télévision, Canada.

Important note: The screen of the coaxial cable must be connected to earth (grounded) at the entrance to the building. This should be done in accordance with applicable national electrical installation codes. In the U.S., this is required by Section 820.93 of the National Electrical Code, ANSI/NFPA 70

Radio Interference Statement

The WinTV products have 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 following 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 experienced radio/TV technician for help.

FCC ID: H90WINTV

CE Statement: This equipment has been tested and complies with EN 55013, EN 55020 and IEC 801-3 part 3 standards.

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.

UL 60950-1: In accordance with sub-clause 1.7.2, the installation instructions should note that the cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable. This aligns the instructions with the third dashed paragraph of the new exception

CSA 60950-1: Make sure that the cable system is grounded to provide protection against voltage surges and built up static charges.

graphics memory. It is more	🗢 Primary	
CPU intensive but often fixes display problems on some laptops. Note: Snapshot does not work in 'Force	PRIMARY Version 3.9 Copyright (c)1997-2004 H Computer Works, I	
To use hardware graphics acceleration, close WinTV, then run	C Allow VMR (WirXP Only, implies All VMR Type C VMR7 Only C VMR9 Only (
Primary. Click <i>Allow VMR</i> . Close Primary and rerun WinTV. The Allow VMB setting will allow your	MPEG Playback Options Use DXVA (if available) Use HW Motion Comp (if available)	
graphics system to use hardware acceleration for video decode.	C Allow <u>D</u> verlay Force <u>Primary</u>	

ac