# WinTV-PVR-USB2

**Personal Video Recorder for** USB 2.0 and USB 1.1

# **Quick Installation** Guide

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# 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 compressor
- 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:

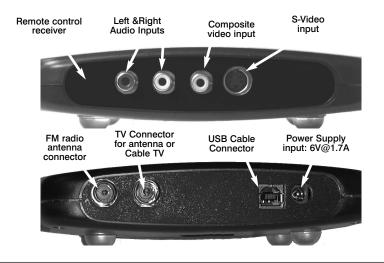
- ✓ Plug your TV antenna or cable TV cable into the WinTV-PVR-USB2's TV Connector. Plug the supplied USB cable into the WinTV-PVR-USB2 and into one of your PC's USB ports.
- 1 Boot your PC.
- 1 After Windows is running, plug the supplied Power Supply into WinTV-PVR-USB2's power input. The Found New Hardware 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 1 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 4: Installing the WinTV-PVR-USB2 driver for Windows XP and Windows2000

After booting into Windows, plug the WinTV-PVR-USB2 in your USB port. The Found New Hardware Wizard will appear. Insert the WinTV Installation CD-ROM in your PC's CD-ROM drive and make sure Instal

sure install the soft- ware automatically	Found New Hardware Wizard	
(Recommended) is checked. Then click NEXT.	Welcome to the Found New Hardware Wizard This wizard helps you install software for: USB Device	
When the <b>Hardware</b> Installation dialog box opens, click <b>Continue</b> <b>Anyway</b> . Click <b>Finish</b> .	What do you want the wizard to do?	
This will complete the driver installation for Windows XP. Now go to step 5 to install the WinTV-PVR applications.	Click Next to continue.	

#### Step 5: 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

# 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

<b>...</b>	Tuner Scanning Setup
When running WinTV for the first time, you will need to scan for your TV channels. If you are using Cable TV, in the	Make sure your Country and Broadcast/Cable Settings are correct before scanning. Also make sure your Video Format is correct for your area. If you still have trouble finding stations try setting Tuning Mode to All Channels and rescan
Broadcast/Cable box select	
Cable (or Cable HRC).	
Otherwise select Antenna.	
Choose the Video Format for	Tuning Mode Channels by Country

NTSC M

Cancel Start...

Country United States

Tuner Format

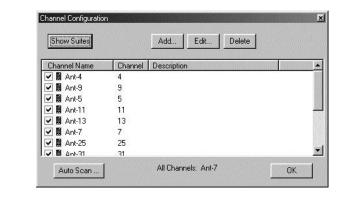
your geographic region, then click on Start:

- 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

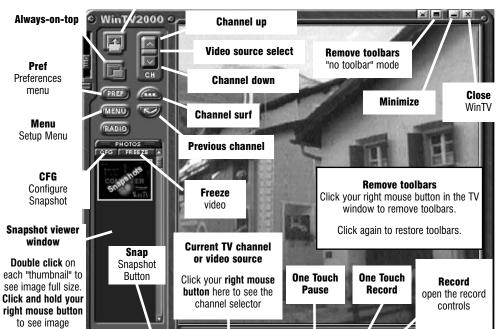
# Setting up the channels

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 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.

# Full screen TV



## 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:

configure the TV tuner (scanning, Suite Manager: 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.

Open the Volume con-Twiew Novies Snap Shot Audio Color trol 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

Mixer	Current TV Ava	ilable Modes	
2% 100%	Mono	Stereo	SAP
Separation	Lang A	Lang B	Lang C
		Actual	
0% 100%		Stereo	

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, open up the Windows Volume Control Mixer and make sure Wave is listed and not muted. The WinTV-PVR-USB2 uses your PC or laptop's sound card Wave device for audio volume.

# Watch TV, Pause and Record

#### 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

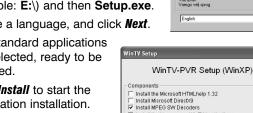
- In the Record menu, click the red record button to start recording

- 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.





#### 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

#### View: for setting the TV window size

#### Pref button

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

these are the settings for the On Screen Display of the TV View: 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

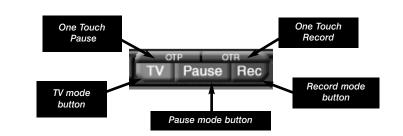
If you cannot hear audio when the WinTV application is running, check the following:

On the WinTV2000, click Pref / Audio. Make sure the Audio Mixer Input is set to WinTV Wave.

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 **0TR** 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.

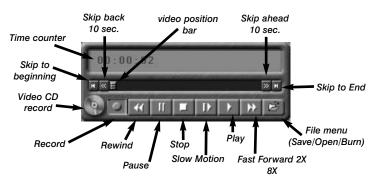


To rewind the video 10 seconds, click the rewind 10 seconds button. If your video was paused, click the Play button.

For more instructions, see the section entitled Pause mode.

# **Record Mode**

Click on the Record button on the WinTV2000 application to open the Record and Playback control bar:



**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.

#### Record button:

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".

Stop button:

Clicking the Stop button will stop the video you are recording or play-

ing back. Once the video is stopped, live TV will be displayed in the WinTV window.

#### Play 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.

## Pause button:

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:**

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. To start playing your video file at the normal speed, click the Slow Motion button again.

# 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 (remember, the automatically generated file names start with \_dvcr), highlight it with your mouse, and click and hold the right mouse button. Go down

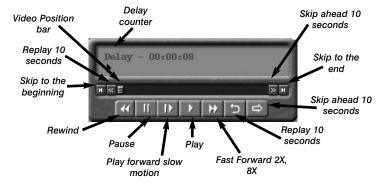
to Rename and then you can type in a new name. Remember: you must keep the MPG extension on the file.

- 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 on the WinTV2000 application starts the Pause mode. The Pause Menu will drop down.





#### 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 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.



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.



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



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**.

MPEG	
DVCR Record File Path	
C:\Documents and Settings\Administrator\My Documents\My Videos\	Browse
Pause Mode Record Path	
C:\Documents and Settings\Administrator\My Documents\My Videos\	Browse
Pause Buffer Size	
1000 Jup	
1000 - MD	
MB	Advanced >>
Quality Level	Advanced >>
	Advanced >>
Quality Level	Advanced >>
Quality Level	Advanced >>

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 DVDs, 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 .8 Gigabytes/hour

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

#### Which record format should you use?

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. You can get 6 episodes of a 1/2 hour TV show on a DVD+R/W using DVD Extra Long Play.

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:



28832022	Add Pro	gram O
Program Name	WinTV (1)	
Program Period Cone Time Only Every day Weekly	Program Date/Time Time To Begin 02:48 PM	Source Selection V WinTV 2000 Reminder Radio
Weekly Sunday	Program Duration — Minutes 30 Time To End 3:18 PM	Channel Selection 4 5 7 7 11 Recording Options
📕 Tuesday 📕 Wednesday 📕 Thursday	Date To Begin 7 /13/2005 -▼	Record To File WinTV (1)
📕 Friday 📕 Saturday	Date To End	Mute volume while recording
	Save Program	Cancel

- **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.

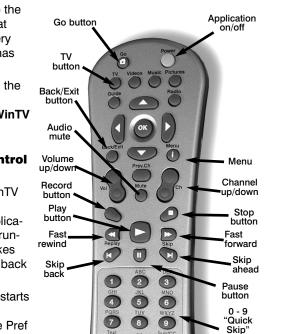
# **WinTV-PVR remote control**

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 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 "TV-in-a-window". **Red record button:** starts recording using the parameters set in the Pref



#

#### 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 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/play-back menu. If WinTV is in "TV mode", this button will close the WinTV application.

**Red button at bottom:** closes WinTV Radio and opens WinTV2000. **Green button at bottom:** closes WinTV2000 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 **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. Edit disk: Edit videos or menus from DVD+RW's. Direct to disk: this function currently does work. Copy disk: Burn copies of existing disc images to CD/DVD.

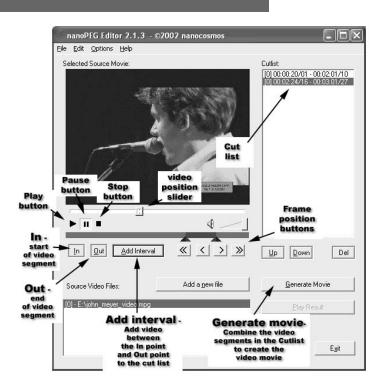
#### Making DVDs from your WinTV-PVR recordings

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: 1 hour 50 minutes DVD Extra Long Play: 3 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.



Pause button: if watching live TV, will open the record/play menu box and stop the video. When recording, this button will pause the video but

menu.



\* 0

WinTV will continue to record. If playing back video, this button will

to CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS ON THE BATTERIES.

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 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

# **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 music.



# You will find the WinTV MPEG editor by clicking *Start / All Programs / MPEG Tools for Hauppauge / nanoPEG Editior*.

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-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 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 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.
- 2. Check in Device Manager to see if the Hauppauge WinTV PVR-USB2 Encoder is listed in "Sound, video, and game controllers".

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.
- 4. 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:

- 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 desired setting.
- 2. **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**

- 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.
- 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)

Click the **Go** button. You should see the WinTV Remote menu pop up on your PC screen.

3. Restart the IR remote application:

#### 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 icon**.

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.

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

# Problem: Poor image when running WinTV in 256-color mode

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 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 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 part 3 standards.