WinTV-HVR-1975

Quick Installation Guide for Windows

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1. Included with the WinTV-HVR-1975

WinTV-HVR-1975 with ATSC/NTSC/clear QAM receivers for North America and PAL, DVB-T, DVB-T2 and DVB-C receivers for Europe and Asia. Plus FM radio receiver and MPEG-2 hardware audio/video compressor for recording analog cable TV to disk

- **Remote control**
- transmitter and batteries
- IR Blaster cable Wall mounted power
- supply (6 volt) 1 meter USB cable
- FM radio antenna
- WinTV Installation CD-
- WinTV-HVR-1975 Quick Installation Guide (this guide)
- IR Remote Blaster Quick Installation Guide

2. What is ATSC and QAM digital TV, and how does the WinTV-HVR-1975 work?

ATSC digital TV is 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. To watch and record satellite TV, you need a satellite receiver box plus the WinTV-HVR-1975.

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.

Clear QAM TV channels are digital cable TV channels which are broadcast on cable TV "in the clear". These digital cable TV channels are broadcast in various resolutions, from standard definition up to high definition.

WinTV-HVR-1975 has a built-in tuner for analog cable TV, digital ATSC and clear QAM digital cable TV. To receive ATSC, you will need an antenna. To receive digital clear QAM or analog cable TV, you will need a cable TV connection.

It uses your PC or laptop's 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

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programs depends upon how fast your PC or laptop system 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

The portable antennas are designed primarily for ATSC digital TV reception, and will work within 10 miles of an ATSC transmitter (reception might be limited by obstructions such as steel buildings).

For the best ATSC digital TV reception, a roof top 'High gain' antenna is recommended. In the U.S., a good ATSC digital antenna selector can be found at TitanTV.com under Resources.

3. Installing the WinTV-HVR-1975

The WinTV-HVR-1975 is a USB device designed for Microsoft® Windows 8.1, 8, 7, Windows Vista (all versions) and Windows XP SP2. It can be used with the Hauppauge WinTV application, with Windows Media Center and other TV tuner applications.

Connect the WinTV-HVR-1975 cables

Plug your TV antenna or cable TV cable into the WinTV-HVR-1975's **TV Connector**. Plug the supplied Radio aerial into the FM radio connector. Note: this may not be necessary if your TV aerial or cable network supplies FM.

Plug one end (the square end) of the supplied USB cable into the WinTV-HVR-1975's USB Cable connector. The WinTV-HVR-1975 is compatible with USB 2.0 (high speed USB) only.

Plug the other end of the USB cable into a USB port on your

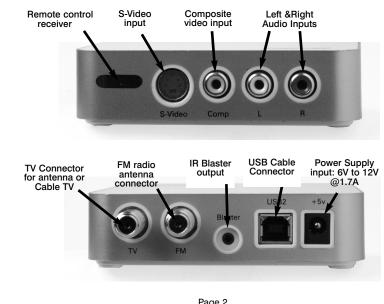
The S-Video and Composite video inputs and the L&R audio inputs can be used to bring audio/video from a VCR, DVD player or satellite TV

Information on the installation of the IR Blaster Cable can be found in the IR Remote Blaster Quick Installation Guide.

Boot your PC.

Plug the power supply into WinTV-HVR-1975.

Plug the supplied Power Supply into the **Power Supply input** on WinTV-HVR-1975. The WinTV-HVR-1975 can accept 6V to 12V inputs.



Hauppauge!

Hauppauge!

Digital QAM Scan

Next -> Cancel

#2096 Unknown 82.96 (MPEG2 SD 82.96 - encrypted)
#2082 Unknown 82.82 (MPEG2 SD 82.82 - encrypted)
#2085 Unknown 82.85 (MPEG2 SD 82.85 - encrypted)
#2001 Unknown 82.85 (MPEG2 SD 82.85 - encrypted)

#2302 Unknown 82.302 [MPEG2 SD 82.302 - encrypted #2076 Unknown 82.76 (MPEG2 SD 82.76 · encrypted)

Analog Tuner Setup

Channels: Scan For Channels

~

Next -> Cancel

#2107 WABC+ (MPEG2 SD 83.107)
#2133 CREATE (MPEG2 SD 83.133)
#2707 WABC-HD (MPEG2 SD 83.707)
#2721 WLIW-SD (MPEG2 SD 83.721)

] #2108 WABCnow (MPEG2 SD 83.108] #2132 WORLD (MPEG2 SD 83.132)

canning physical channel 100

4. Installing the WinTV driver and application

For Windows XP installations:

After you install your WinTV device and boot Windows, a 'Found New Hardware' wizard will appear.

Please cancel it and allow windows to load fully before proceeding. You might see this message two or three times. Please click 'Cancel' each time you see the New Hardware Wizard.

For Windows 7 or 8:

Insert the WinTV Installation CD-ROM in your PC's CD-ROM drive. You will see an AutoPlay message.

Click Run Setup.exe

For all versions of Windows:

Insert the WinTV Installation CD-ROM in your PC's CD-ROM drive.

"Hauppauge WinTV Installation CD-ROM" window will appear on the

lote: if the CD does not autorun, navigate to the CD and run the

TV DVD Drive (D:) WINTV7_x

Always do this for software and games

View more AutoPlay options in Control Pane

Run Setup.exe

Install the WinTV driver

The setup

begin

WinTV

Exit.

application

Click the button labeled Step 1: Install Drivers.

A screen will open and begin installing the drivers for your WinTV. Once the drivers have installed, click on the Finish bar to exit.

Install the WinTV applications



lote: Please do not lose your WinTV CD-ROM! You will need to use it each time you upgrade to a new version of WinTV.

ote: the latest driver updates are available at: www.hauppauge.com in the Support section.

5. Running WinTV for the first time

To run WinTV v7 for watching TV, recording videos and playing them back on your PC, double click on the WinTV icon on your Windows desk top.

When you run WinTV for the first time, the WinTV **Device Setup** Wizard appears. Select the TV source that you are using.

ote: If you'd like to use the A/V inputs, please see instructions



below in External audio/video sources.

If your TV source is ATSC digital over-the-air TV

Select Digital ATSC and click Next. In the ATSC Setup menu, click

Next. You will see the **Digital ATSC** Scan scanning for over-the-air channels. The digital TV scanning process will scan from channels 2 to 51. As TV channels are found, they will appear in the

Digital ATSC Scan Channel box. Next -> Cancel When complete,

click Next / Next / OK.

lote: if you do not receive any ATSC digital TV channels, an antenna signal booster might be needed. After adding a signal booster, see below for instructions on rescanning and the Troubleshooting section for information on choosing an antenna.

If your TV source is Clear QAM Digital Cable TV

Clear QAM digital cable TV channels are those TV channels broadcast on a digital cable network which are unencrypted ('free to view'). If you are using cable TV with clear QAM programs, chose Digital QAM and click Next.

Encrypted channels are automatically not selected and will not appear in your channel list. The resulting channels in the list might be both standard and high definition channels.

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If your TV source is Analog cable TV

Select your Country and your **TV Source** from the drop down list. To automatically scan for channels, click **Next** to continue.

Click the **Scan button** and WinTV will automatically scan for analog channels. The scanning process takes about 10 minutes.

External audio/video sources

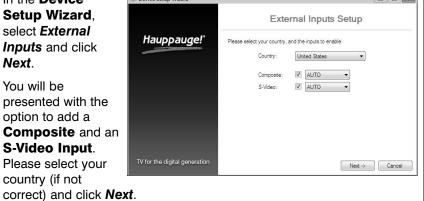
You can bring video

In the **Device**

into the WinTV from

an external audio/video source such as a cable TV or satellite set top

Setup Wizard, select External Inputs and click Next. You will be presented with the option to add a **Composite** and an S-Video Input. Please select your country (if not



If you wish to connect a source not normally designed for operation in your country, you can configure the Video Format manually from the drop down list. Change the value from "AUTO".

ote: Pal BGHIDK is the commonly used format in Europe. NTSC is the broadcast format used in North America.

Rescanning TV channels

If you want to rescan for TV channels, click the **Configuration menu** (Gear button in the lower left corner of WinTV v7).

Then click on the **Devices tab**. Chose your WinTV device by clicking on it, then click **Tuner setup**. Choose the TV format you want to scan, then click Next. Click Next and a new scan will be started. When the scan is complete, click Next / Next and OK.

IR blaster in WinTV v7

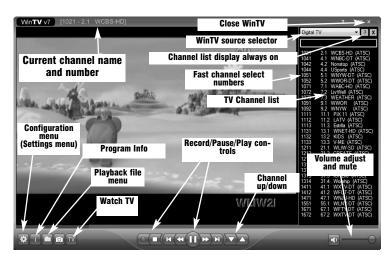
If you would like to use the Hauppauge IR blaster to change the

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channels on your cable TV or satellite set top box, see the section entitled "Configuring the remote control for WinTV v7".

Using the WinTV v7 application

To watch TV, click the Watch TV button.



To see the TV Channel list, click your right mouse button in the TV window to display the Options menu. Select Find Channel. You will see the channel list.

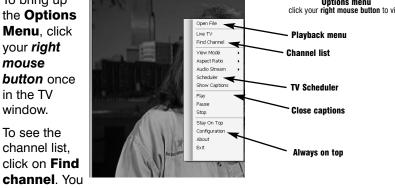
To display the channel list all the time, while the channel list is displayed, click the **Channel list display always on** button.

Options menu

The **Options menu** is the main menu where you can select channels, turn on close captions, open the TV Scheduler and many other of the most important TV control functions.

the **Options** Menu, click your *right* mouse **button** once in the TV window. To see the channel list,

To bring up



channel. You will see the list of channels which have been scanned.

To show the Channel menu as part of the TV window, click the Channel list always on icon at the top of the channel list.

To turn on Close captions, click on Show Captions.

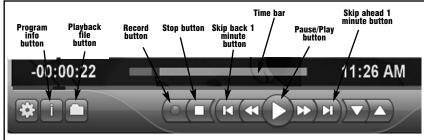
To manually schedule a TV recording, or to see which programs have been scheduled, click on **Scheduler**.

To turn on the Always on Top mode, click on Stay on Top.

Watch, Pause and Record TV

WinTV v7 is always recording video to your PC's hard drive while TV is being displayed. In this way, you can immediately skip back and replay

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the TV program you are watching.

Clicking on the Pause button will cause the video to pause, while clicking the Record button will cause the current TV program to be recorded to hard disk.

Recording your TV shows

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

- Click the Record button. The recorded file name will popup on the video for a few seconds as the recording starts.
- When you are finished recording, click the **Stop button**.
- Click the Playback file button and select the last file recorded to play the video you just recorded
- To play a video you recorded earlier, click the Playback File button and then move your mouse and click once on the video you want to play. Click **Open** and the file will start playing.

The recorded video file is saved in the directory set in Recordings directory which can be found in the Configuration menu. The default directory is MyVideos. To change the default directory, click the Settings button and then the Folders tab. Every time you record a file, a new file is automatically created. The file will be formatted as (ChannelNumber) (ChannelName)YearMonthDay Time.

For 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 high-definition.

Close captions, parental control information and SAP audio are recorded with digital TV programs.

For analog cable TV using the built-in hardware MPEG-2 encoder, the quality of the video recording is set to 6Mbits/sec. This will be a configurable setting in a future version of WinTV v7.

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

- Click the Pause button. Your TV video will stop and the Time counter will start counting.
- To start the video from where you paused, click the Play button
- To rewind the video to the beginning, click the Skip to the beginning button. If your video was paused, click the Play
- To rewind the video 1 minute, click the **Skip back 1 minute** button. If your video was paused, click the Play button.

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.

Selecting FM radio programs

On those WinTV products which support FM radio, if you have scanned for FM radio staions in the section entitled "Using WinTV for the first

time" you can change the WinTV v7 application to FM by clicking FM radio in the Source selector, found in the upper right hand corner of the WinTV application.



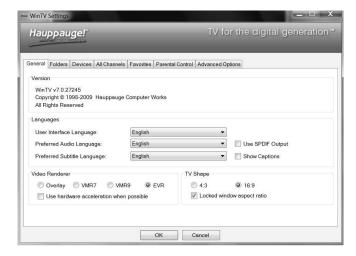
Configuration menu

The WinTV v7 Configuration menu is accessed by clicking the gear button in the lower left hand corner of WinTV v7.

General tab: you can set the Video Renderer which allows WinTV v7 to display video with a wide range of graphics sys-

Devices tab: allows is where you can re-scan for TV channels and set up the TV sources in WinTV v7.

Parental control tab: is where you can set the Parental Control



Advanced options: you can set options such as Convert TV recordings to .MPG file type and Game mode here.

TV Scheduler

WinTV v7's built-in TV Scheduler allows you to schedule the recording of TV shows. Once a record event is set, WinTV v7 can be closed and will "wake up" at the desired time and tuned to the desired channel.

When a scheduled record event takes place, the WinTV v7 application records "in background" so that you can continue to watch your live TV program, even as the recording progresses.

The TV Scheduler can be found in the WinTV v7 Options menu. Right click your mouse button in the TV window to see the Options menu. Click **Scheduler**. To set up an event for timed watching or recording, click the Add button.

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

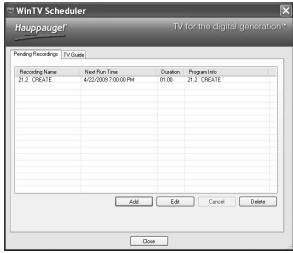
- Name: you can add a name to the recording. If you do not enter a name, the name will be in the channel/date format.
- Channel: chose one of your scanned channels.
- Start time: set to the desired start time. Click on the hour to set the hour, the minute to set the minute. Note: It takes about 15 seconds to launch the WinTV and start recording.
- **Duration:** number of minutes in the recorded program.
- **Recurrance:** one time, daily, weekly.

Note: If you set for Record Weekly, you must also specify the

Day of the Week for the recording.

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.

Once these are set, click **OK**. You can add more recordings, clicking **OK** after each event is

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.

set.

Add / Edit Recording Channel & Time 2 21.1 WLIW-SD (ATSC) Channel: Start Time: 12:25:00 \$ Duration (mins): Recurrance Wednesday, April 22, 2009 Start Date: End Date: Wednesday, April 22, 2009 Tuesday Thursday Friday Saturday OK Cancel

The Hauppauge remote control

The WinTV 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, select Restart IR from the Start \ All Program Files\WinTV directory.

Please ensure the following before trying to use this option:

- 1. Infrared Remote control has batteries inserted
- Infrared-Receiver, is fully connected to the IR socket of the WinTV-Card
- 3. Infrared software is started The IR icon is on the start bar To start WinTV, press the GO button.

Remote control buttons

TV button: when WinTV is running, this button will start live TV (if in playback mode).

Red record button: starts recording using the parameters set in the

Pause button: if watching live TV, will pause the video. When recording, this button will pause the video but WinTV will continue to record. If

Stop button (square icon): stops live TV, the recording or playback. Play button: plays the last video recorded.

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: skip ahead 30 seconds. Skip back button: skip back 30 seconds. Go button: Start WinTV.

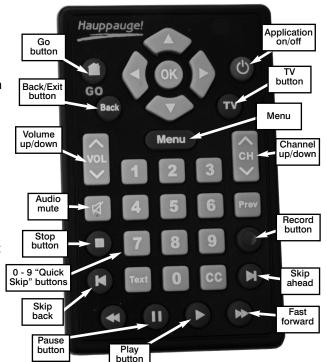
Menu button: opens channel list. Power button: close WinTV or Windows Media

Sub/CC (#): Sub-titles on / off

Center.

playing back video, this button will pause the video playback.

Back/Exit button: will close the current menu or exit full screen mode.



Troubleshooting

lote: the latest WinTV-HVR-1975 software can be found at www.hauppauge.com/site/support/support_hvr1975.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 Sempro 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

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 or QAM 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 digital 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:

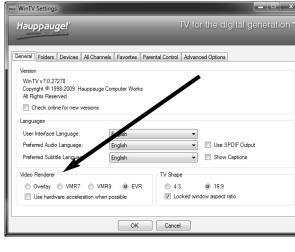
- Use the latest graphics driver: graphics drivers are often 'tweaked' to improve performance, especially the built-in graphics on laptops. Check the Microsoft Windows update site to download the latest graphics driver for your computer. For Dell computers, check the Dell website for the latest graphics driver.

- Use WinTV v7 Video Renderer settings to optimize graphics performance: The Video Renderer is found in the General tab of WinTV v7, and is used to change the display mode of a graphics card for TV watching.

not affect any other Windows program. The default mode is **EVR.** The other modes are VMR9, VMR7 and Overlay. Each mode uses a different process to render video. Try each mode and use the one which gives you the best

results.

This setting does



To use hardware graphics acceleration, put a check in the tick box Use hardware acceleration when possible. This will allow your graphics system to use hardware acceleration for video decode. Note: graphics hardware acceleration does not work on all systems.

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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 go back to settings and uncheck "use hardware acceleration" and 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-1975 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.

	Keyboard shortcuts			
	Ctrl A	Aspect ratio	Alt P	Previous channel
	Ctrl D	Display the video and audio	Ctrl Q	Pause
		format of the TV program	Ctrl P	Play
	Ctrl F	Freeze the video	Alt R	Record
	Ctrl Z	Open TV Scheduler	Alt S	Stop
	Ctrl O	View program details (digital TV program, where provided in the broadcast)	Alt T	Start TV
			Ctrl C	Catch up
	Ctrl S	Display subtitles	Ctrl >	Skip ahead
	Ctrl W	Full screen toggle	Ctrl <	Skip back
	Alt F	Open File menu for playback		
	Alt M	Open the Task Menu		

FCC Statement

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

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