

WinTV-HVR-2250

Dual hybrid PCI Express Video Recorder for NTSC, ATSC and clear QAM

Quick Installation Guide

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Contents of the WinTV-HVR-2250 package

- WinTV-HVR-2250 PCI Express board with dual hybrid NTSC/ATSC/QAM TV tuners
- A/V breakout cable for the primary A/V input
- A/V panel and cable to add a second set of audio/video inputs
- Remote control transmitter and IR remote control receiver/blaster cable (on models with remote control)
- IR transmitter cable for the A/V input on the A/V panel (on models with remote control)
- WinTV-HVR Installation CD-ROM including WinTV v7 application with TV scheduler

Installing the WinTV-HVR-2250

WinTV-HVR-2250 is a PCI Express TV tuner board with two TV tuners, each which can be used to watch or record an analog or digital clear QAM cable TV or ATSC digital TV program at the same time. Each analog TV tuner also includes a hardware MPEG-2 encoder, so that your computer does not slow down when watching or recording analog TV channels.

WinTV-HVR-2250 is designed for Windows XP, Windows Vista and Windows 7. It can be used with Windows Media Center or Hauppauge's WinTV v7 application.

Note: if you are running the Windows Media Center application, you only need to install the WinTV-HVR Windows device driver. You do not need to install the Hauppauge WinTV applications. But if you are using Windows Media Center and want to use the on board Media Center compatible receiver transmitter, you also need to run the Hauppauge CIR config tool and select Hauppauge WinTV-HVR-2250. See below in the section entitled "Configuring the IR Blaster".

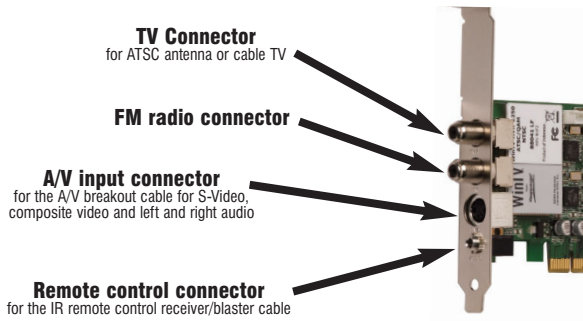
Installation overview

- ✓ Install the WinTV-HVR-2250 board in a PCI Express slot in your PC and connect a TV source.

- ✓ On models supplied with the Media Center remote control, plug the IR remote control receiver/blaster cable into the Remote control connector. Position the IR receiver/learn sensor where infra-red light from the remote control transmitter can hit it.
- ✓ Install the A/V panel in another slot in your PC, and connect the supplied cable to the WinTV-HVR-2250 connector.
- ✓ After booting Windows, install WinTV-HVR Windows device driver from the WinTV-HVR-2250 Installation CD-ROM.
- ✓ **Optional:** After the Windows driver is installed, install the WinTV applications from the WinTV-HVR-2250 Installation CD-ROM.

Install the WinTV-HVR-2250 board and connect the cables

Turn the power off on your PC. Install the WinTV-HVR-2250 into a PCI Express slot.



TV connection

Plug your cable TV or ATSC digital TV antenna into the TV Connector. Plug an FM antenna into the FM radio connector if desired.

A/V breakout cable

The A/V breakout cable can be used to bring audio/video from a satellite TV or cable set top box. Plug the A/V breakout cable into the A/V input connector.

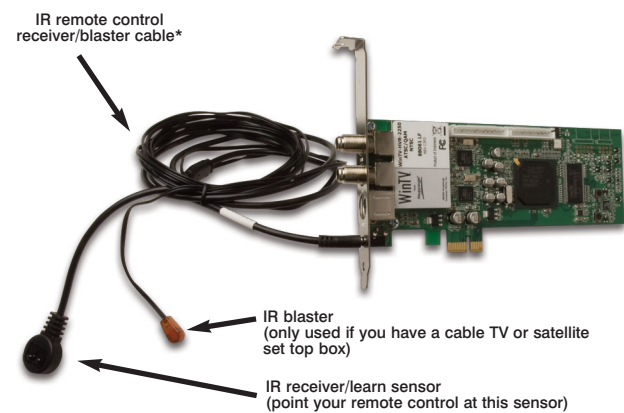
If you are using a cable TV or satellite TV set top box connect the set top box to the WinTV-HVR-1850 through either S-Video or Composite video connector on the WinTV board. You can also connect a coax cable from the RF Out on your set top box to the TV connector on the A/V breakout cable.

Installing the IR remote control receiver/blaster (on models supplied with remote control)

On models supplied with the Hauppauge Media Center compatible remote control, the IR remote control receiver/blaster cable is plugged into the Remote control connector. Add the supplied batteries to the Remote control transmitter.

Note: the Hauppauge remote control can also be used with the Hauppauge WinTV v7 application. See instructions below to configure the remote control for Hauppauge's WinTV application.

Note: The use of the IR Blaster is optional. It is only needed if you have a cable TV or satellite set top box and want Media Center or WinTV v7 to change the channels on your set top box. If you are not using a set top box, you should still connect the IR remote control receiver/blaster cable, but you will only use the IR receiver sensor.



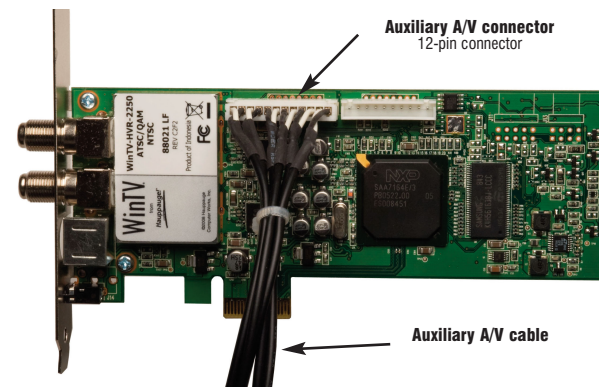
The IR remote control receiver/blaster cable has two ends: the IR receiver/learn sensor and the IR blaster:

- Position the IR receiver/learn sensor in a spot on your PC where it will be able to receive infra-red commands from the Media Center remote control device. Use the Velcro dot (on the back of the IR receiver) to position the IR receiver and learn sensor.
- **Optional:** position the IR blaster on your cable TV or satellite set top box. Infrared light from the IR blaster needs to hit the remote control receiver in your set top box.

To test the IR Remote control receiver, click the Start button in the middle of the remote control. Windows Media Center should open.

Install the auxiliary A/V panel

The A/V panel and cable can add a second set of audio/video inputs to the WinTV-HVR-2250. Install the Auxiliary A/V panel in a slot on the back of your PC. Plug the cable into the 12 pin Auxiliary A/V connector on the WinTV-HVR-2250.



Install WinTV-HVR-2250 software

Turn on your PC, and boot into Windows.

If a 'Found New Hardware' wizard appears, please cancel it and allow windows to load fully before proceeding.

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

Note: if the CD does not autorun, navigate to the CD and run the 'Setup.exe' file.

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

Install the WinTV driver

Click the button labeled Step 1: Install Drivers.

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

If you are using Windows Media Center and want to use the Hauppauge remote control with Media Center: Go to the WinTV v7 installation CD in the MISC folder and run HCWCIRConfig_Tool.exe

Put a check in the box labeled "Hauppauge WinTV-HVR-2250". Click OK to save the changes.

Note: your computer must be restarted for the changes to take effect.

Install the WinTV applications (optional: not needed if you are using Windows Media Center)

Click the button labeled Step 2: Install WinTV

The setup application will then open and begin automatically installing the WinTV application components. Once complete, click OK then Exit.

Note: the latest driver updates are available at: www.hauppauge.com

TV Tuner set up in Windows Media Center

Note: Media Center requires Windows 7 or TV Pack 2008 to support QAM TV channels. You can also use the Hauppauge WinTV v7 application, or SageTV or BeyondTV.

Run the Windows Media Center application.

Cursor down to **Tasks**. Cursor left to **Settings**. Click **Enter**.

Cursor down to **TV**. Click **Enter**.

Cursor down to **Set up TV Signal**. Click **Enter**. Click **Next**.

In **Confirm your Region**, make sure your region is selected. Click **Next**.

You will see a message which says **Download TV Setup options**. This takes about 5 minutes to complete.

Click **Next** when this download is complete.

At **TV Signal**, click **I will configure my TV signal manually** and click **Next**

You will then see: **Cable / Satellite / Antenna**. Chose the source of your TV signal (Cable for use with analog cable TV, Satellite for use with a satellite set top box and Antenna for use with ATSC digital over the air TV) and click **Next**.

At this point, Media Center will set up the TV tuner. This might take a

minute or so.

You will then see a message saying **Examining cable TV, antenna or set top box connection**.

After determining the type of signal, you will see **You are Done!**

Note: If you see a message "IR hardware not detected", and you are only using one TV tuner, then you need to tell Media Center to use only Tuner 1.

Click through the rest of the settings, set up your **Guide listings** and click **Finish**.

Then return to the main menu. Go to **TV + Movies** and then **Live TV** to watch and record TV.

Running WinTV v7 for the first time

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

When you run WinTV for the first time, the WinTV Device Setup Wizard appears. Select the TV source that you are using. On some model WinTVs, you have multiple tuners and therefore you can select multiple sources. For the WinTV-HVR-2250, you can chose either ATSC or Digital QAM and Analog TV. You cannot chose both Digital ATSC and Digital QAM.

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 digital 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 **Channel** box.

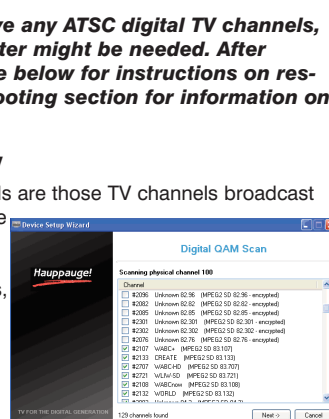
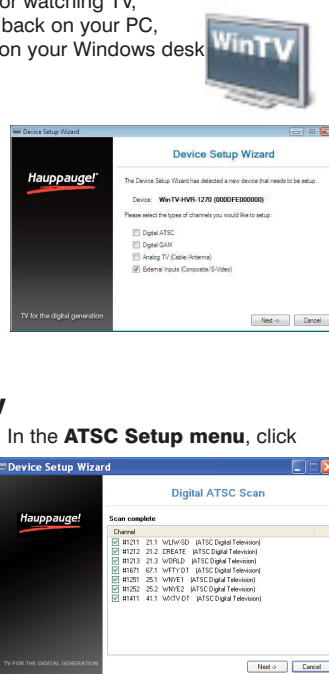
When complete, click **Next / Next** and **OK**.

Note: 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.

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 have a cable operator who transmits clear QAM digital TV programs, chose **Digital QAM** and **Next**.

Encrypted channels are automatically not selected. The resulting channels in the list might be both standard and high definition chan-



nels.

Analog cable TV

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

Note: If you'd like to use the A/V inputs, please select External Inputs.

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 into the WinTV from an external audio/video source such as a cable TV or satellite set top box.

In the Device 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 correct) and click **Next**.

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".

Note: 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 **Setup 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**. Chose 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**.

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 and select **Find Channel**.

Options menu

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

To bring up the **Options Menu**, click your **right mouse button** once in the TV window.

To see the **channel list**, click on **Find channel**. You will see the list of

