

WinTV-USB2

Quick Installation Guide for Windows XP

Note: DO NOT Install the WINTV-USB2 until Windows has booted.

Note: WinTV-USB2 will not work on a USB 1.1 port.

Contents of the WinTV-USB2 package

- WinTV-USB2 device
- 1 meter Audio cable - sound cable for connecting between the WinTV-USB2 and your sound card
- S-Video to Composite video adapter cable
- FM radio antenna (on models with FM radio)
- WinTV-USB2 Installation for Windows CD-ROM with:
 - Drivers for WinTV-usb2 on WindowsXP
 - WinTV2000 application
 - SoftPVR™
 - WinTV-Scheduler



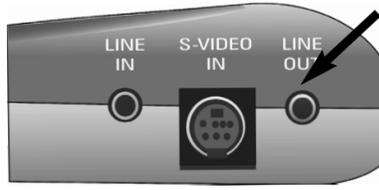
Step 1: Connect the TV and Video/Audio cables

Connect a **TV aerial** or **cable TV** to the WinTV-USB2 connector marked **TV**. If you have a WinTV-USB2-FM, attach the supplied **FM antenna** to the connector marked **FM**.

You can also connect an A/V source such as a VCR, camcorder or video camera to the WinTV-USB2. Connect the video from your A/V source to the **S-Video In** connector. If you have a composite video source, use the **S-Video to Composite adapter cable**. Connect the audio from your A/V source to the WinTV-USB2's **Line-In** jack.

Audio out from the WinTV-USB2

Connect the **Line-Out** jack on the WinTV-USB2 to your sound card's **Line-In** jack. To do this, plug one end of the supplied **1 meter audio cable** into the jack marked **Line Out**. Plug the other end into your **PC's sound card LineIn** jack.



If your PC or laptop does not have a Line-In connector:

you can enable Digital audio over USB while watching live TV. To do this, see the paragraph **"Enabling audio over USB2"** in the WinTV2000 section.

Step 2: Plug WinTV-USB2 into a USB 2.0 port on your laptop or desktop

After WindowsXP has booted, plug the WinTV-USB2 into a USB2.0 port.

Step 3: Install the WinTV-USB2 driver for WindowsXP

3-1 After the WinTV-USB2 is plugged into a USB2 port, the **Found New Hardware Wizard** will appear. Insert the **WinTV-USB2 Windows Installation CD-ROM** into your CD-ROM drive.



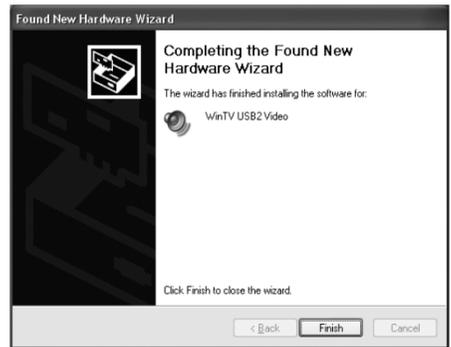
If your PC has Automatic Updates turned on, you will be asked **Can Windows connect to Windows update?**

Click **No, not at this time** and then **Next**.

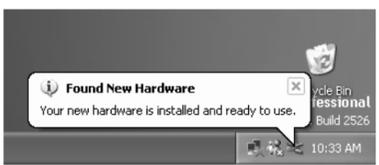
Click **NEXT** to **Install the software automatically (Recommended)**.



3-2 If the **Hardware Installation** dialog box appears, click **Continue Anyway**.



3-3 Click **Finish** to complete the driver installation.



3-4 You will see a **Found New Hardware .. your new hardware is ready to use** in the Windows tray in the lower right hand corner of your PC screen.

Step 4: WinTV Software installation

After the **WinTV-USB2 driver** has been loaded, run the WinTV setup program.

Run **SETUPEXE** from the **WinTV-USB2 Installation CD-ROM**.

For example (if your CD-ROM is on driver E:), click Start then Run then **E:\Setup.exe**

Click **Install** to start the WinTV installation.

During the installation, you might get a **Hardware Installation** message regarding

WinTV-USB2 Aux Device. This will occur if you click the **Enable WinTV-USB2 audio driver install** box. If so, click **Continue anyway**.

When all of the WinTV-USB2 software is installed, an **Installation Complete** message will pop up.



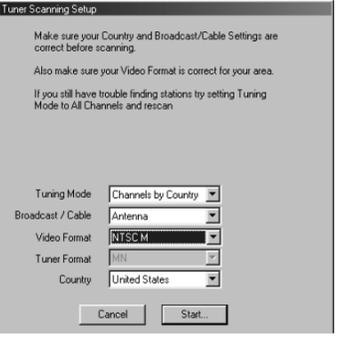
The WinTV2000 TV application

To run the WinTV2000 application, double click the **WinTV2000 icon** on your Windows desktop.

Scanning for channels

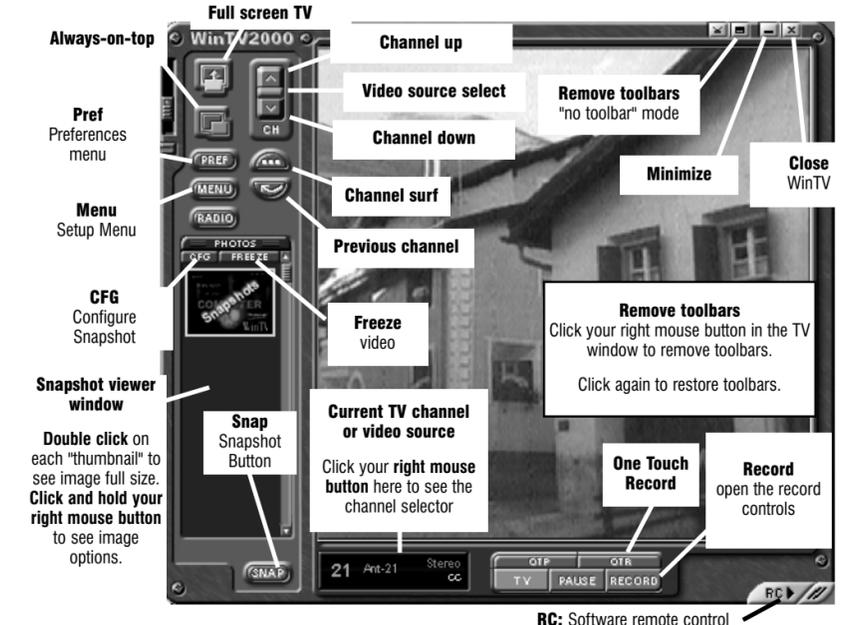
When running WinTV for the first time, you will be asked **"Would you like to scan for tuner channels now?"**. Click **Yes**.

If you are using Cable TV, in the **Broadcast/Cable** box select **Cable** (or Cable HRC). Otherwise select **Antenna**.



Choose the **Video Format** for your geographic region, then click on **Start**:

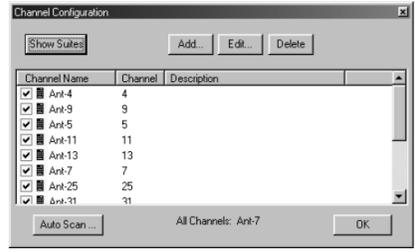
- North America uses **NTSC M**
- Europe uses **PAL B/G**
- the U.K. uses **PAL I**



in South America, **PAL M** or **PAL N** is used. For other countries, choose the video format of your region's broadcasting standard.

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**, change the description or fine tune.

Then click **OK**.

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.

If you want to add an External video source (S-Video or Composite) of different video format other than your TV standard: click the **Menu button**, then **Suite Manager**. Click the **Add button** and then chose **S-Video** or **Svideo/Composite** (depends on your video input) then choose the **video format from your video source** (NTSC, PAL, etc.)

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.

"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

Here are the main controls for TV channels, and duplicate controls for other functions:

Suite Manager: configure the TV tuner (scanning, naming, fine tuning, etc.), setting up 'favorite channel lists' and set an external A/V source to a TV channel.

Configuration: duplicate configuration menus for color, audio, MPEG settings, etc.

View: for setting the TV window size

Pref button

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

View: these are the settings for the **On Screen Display** of the **TV channel** and **Audio Volume**, where you can enable **Close Captions**, plus controls for the **Toolbar mode (Title mode)**, **NoToolbar mode (No Title)** and **Full Screen (TV mode)**.

Movies: here is where you configure the **video and audio settings** for SoftPVR. You can set the **movie record directory** (DVCR Record File Path), the **MPEG Quality** settings, and the **Audio** settings.

Snap Shot: settings for 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.

To hide the WinTV toolbar:

Simply click your **right mouse** button in the WinTV's video window for the **no-title** mode. To restore the toolbars (the **title** mode), once again click **your right mouse button** in the WinTV's video window. You can set the size of the window differently in each mode.

Enabling WinTV-USB2 audio over USB2

After you complete the WinTV-USB2 driver and software installation, the default Audio setting is: **Analog audio input to the PC while watching live TV**. This mode requires the use of the audio cable to connect your PC to the WinTV-USB2, and a LineIn jack on your PC.

If your PC or laptop does not have a Line-in jack, or if you would like to simplify the installation of the WinTV-USB2, you can enable **Digital audio over the USB bus**. To do this:

1. Run **USB2AUD.BAT** from the **USB** directory on your **WinTV-USB2 Installation CD**.

During the installation, you will get a **Hardware Installation** message regarding **WinTV-USB2 Aux Device**. Click **Continue anyway**.

2. In WinTV2000, click on the **Menu** button and go to **Audio Type** and select **Digital Rec+Live**.

3. Close and reopen the WinTV application to have the changes take effect.



Note: if you do not see Audio Type in Menu, then try rerunning USB2AUD.BAT from the USB directory on the WinTV-USB2 Installation CD.

Recording MPEG video with SoftPVR™



Note: The following functions are not currently enabled with SoftPVR: the **OTP** and **Pause buttons**, plus the **Fast Forward** and **Rewind** functions.

Note: a Pentium III 800MHz minimum system is recommended for best SoftPVR operation.

To start recording, either click the **OTR (One Touch Record)** or the red **Record** button on WinTV2000. You can also start a recording by using **WinTV Scheduler**.

To stop recording, click **Stop**. To close the recording controls, click the **TV mode** button.

If you click **OTR more than once**, a record timer will be set and the record timer will be set 15 minutes for each time the **OTR** button is clicked. For example, if you click the **OTR** button 3 times, the WinTV will record for 30 minutes.

The recorded video file is saved in the **DVCR Recorded File Path** directory. To set this directory, click the **PREF** button (Preferences menu), then the **Movies tab**. In **DVCR Record Path** set the directory for your recordings.

Record Button: Clicking the Record button will automatically generate a file name and start recording your program. When you record a file, a new file is automatically created and the file name is displayed in the record window. The first file name will be **_dvcr001.mpg**, the second will be **_dvcr002.mpg** and so on. While recording:

- **Live video** continues to play in the WinTV window
- **The Counter** will display the length of your recording in hours:minutes:seconds
- If you had started recording with the **OTR button**, and had clicked it more than once, the **total time for the recording will also be displayed**. You can also click

OTR after a record has been started, and the record timer will be set.

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.

Play Button: Clicking the Play button will playback from disk the last video file created. With SoftPVR, you can only Play and Pause your videos.

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, Play a video file previously recorded, Delete recorded video files.

If you have problems recording audio:

When using the LineOut jack on WinTV-USB2, if you find that there is no audio while playing back your AVI files, it is because the sound card has not been setup to record audio from its 'Line-in' socket. To enable audio recording, open the **Recording Control** panel by clicking **Start / Run** and then **"SNDVOL32 /REC"** This will open the Recording Control panel. Make sure that **'Line-in'** is enabled (this is sometimes called 'Line' or 'Aux').

The IR Remote Control (on some models)

Note: Before installing the IR Remote for WinTV, make sure that the WinTV application works properly when using your mouse or keyboard.

The WinTV-USB2 remote control receiver is mounted on the back of the WinTV-USB2 device, next to the USB cable, behind a small hole in the plastic case.

The WinTV's remote control software is installed automatically during the installation of the WinTV applications. You will see the **WinTV Remote icon** in the **Windows 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.

Remote control when watching live TV

0 - 9 buttons: channel numbers.

Full button: makes WinTV go full screen. Clicking the Full button again brings WinTV into a window.

Record button: opens the SoftPVR tray.

Remote control when playing video recordings

Skip ahead button: skips ahead in the video 30 seconds per click. Holding the skip ahead button will autorepeat, and advances the video about 5 minutes per 10 seconds the button is depressed.

Skip back button: skips back 30 seconds per click. pressing and holding the Skip back button makes the video go back about 5 minutes for 10 seconds the 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.

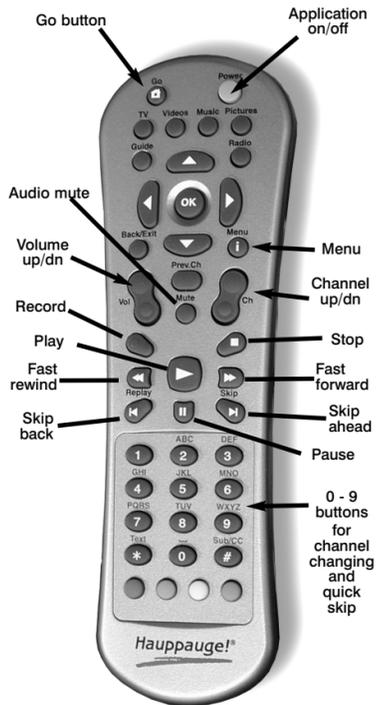
Use the left and right arrows to change to other Windows tasks.

Green power button: will turn off the WinTV application

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

Restarting the IR Remote

WinTV's Remote application, **IR.EXE**, is loaded every time Windows is booted. If you need to restart the remote control, run **IR32.EXE** from the **C:\Program Files\WinTV** directory.



WinTV-Scheduler

WinTV-Scheduler allows you to schedule the recording of TV shows. **WinTV-Scheduler**, once it is set, can be closed, and the **WinTV** application will "wake up" at the desired time and tuned to the desired channel. It will also start recording using SoftPVR.

After installation, **WinTV-Scheduler** can be found on your desktop. WinTV-Scheduler can also be run by clicking **Start/Programs/Hauppauge WinTV/Scheduler**.

WinTV-Scheduler works by using the **Windows Task Scheduler** to launch **WinTV** at the chosen time. **WinTV-Scheduler** sets up a command line in Task Scheduler to run WinTV2000, specifying a TV channel and a length of time to record. At the scheduled time, WinTV2000 will open, and the record menu will roll down and start recording.

To set up a scheduled 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
- **Time to End** Program
- **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 WinTV2000 to bring up the WinTV at the requested time and on the requested channel.
- **Channel selection:** chose one of your scanned channels.
- **Recording options:** click on **Record to File** to record your show. 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 **Scheduler** to work. If **WinTV** is not running, it takes about 10 seconds to start **WinTV** and to start the recording of TV.

WinTV-Scheduler also works with the following on-line Electronic Program Guides: TitanTV in North America, TVTV in Europe and iEPG in Japan.

WinTV Radio (on some models)

Note: FM radio is found only on some WinTV-USB2 models.

To launch the WinTV radio application, click the **Radio** button on the WinTV2000 application. You can also launch the WinTV radio application by running it from the **ProgramFiles/WinTV** directory.

Using the WinTV-radio Buttons

- Volume: The audio volume is adjusted by setting the Windows volume Lineln.
- Tune: Fine tune the current radio channel.
- Seek: Search for the next active FM radio channel.
- Mem: Sets an FM radio channel preset. To assign the current station to a preset, click on Mem and then on one of the Preset buttons (1-10).
- Mute: Turn off the sound
- Mono: Force mono reception. Default is stereo audio.
- Scan: Searches for new stations until you click on Stop. Click the **RIGHT mouse button** anywhere on the WinTV-radio window to set the Scan mode.
- Min: Minimizes the WinTV-radio window.
- CD: Starts your systems **Audio CD-Player** for playing back Audio-CD's.
- TV: Closes the radio application and starts the WinTV application.
- OFF: Closes the radio application.
- 1-10: Preset 1 - 10



Quick Troubleshooting Guide

Problem: Error message when running WinTV2000

If you receive any of the following error messages, your VGA card does not support Overlay Mode. Run **Primary.EXE** from the WinTV directory, selecting Primary surface mode:

- Black screen (no video image)
- Excessively slow and/or pixelated TV image
- Error message: "Connecting Preview Pin Direct to Overlay Mixer"

Note that if Overlay mode is selected, no live video is displayed during video capture or video streaming (video streaming is used by some Videoconferencing and Video Mail applications).

If you receive any of the following error messages, your WinTV-USB2 driver was not loaded correctly:

- "Error: Cannot Locate Capture Filter (Hauppauge WinTV capture)"
- "Cannot build filter graph"
- "Error: connecting VCap and HCWcpt filters"
- "Error: preview pin direct to overlay mixer"

To fix this problem, run HCWCLEAR.EXE which can be found on your **WinTV-USB2 Installation CD-ROM**. Then unplug the WinTV-USB2 device and reboot your PC.

After reboot, plug in the WinTV-USB2 device. The WinTV-USB2 driver and applications can be reinstalled. See **Step 2: Install the WinTV-USB2 driver for WindowsXP**.

The latest version of the WinTV-USB2 driver can be found on our Web site at http://www.hauppauge.com/pages/support_usb2.html

Tip: Checking 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 under Device Manger, go to Sound, Video and Game Controllers and check that it has the line: **WinTV-USB2 Video**.

By default, the **WinTV-USB2 Audio** device will be shown as disabled unless you enable the audio over USB option by running the USB2AUD.BAT file.

Notes on operation of WinTV-usb2

- WinTV-USB2 will not run under Windows95, Windows98, Windows2000 or WindowsNT 4.0
- When video is running, Windows will not enter suspend mode.
- If the live video display freezes when you open other applications, you should reduce the Hardware acceleration of the PC Display Adapter (this may happen only on several specific display adapter cards). Go to Control Panel and click on Display. Select 'Setting', then click on Advanced Properties, select the Performance tab and you will see the Hardware acceleration bar. Reduce the performance to None.
- Turn off the PC power management to achieve better performance in Control Panel.

