Colossus 2
Professional HD Video Recorder
for cable TV and satellite boxes, plus game consoles

Quick Installation Guide

Colossus 2 Installation Guide

Overview
The Hauppauge Colossus 2 is an internal PCI Express board for desktop PCs, and records video in HD from a cable or satellite set top box, PC video (through the PC’s HDMI video output port) or a video game console such as the Xbox One, PlayStation 4 and other HDMI equipped game consoles. Colossus 2 is essentially the HD PVR 2 model 1512 from an internal PCI Express board.

There are two video recording applications which come with Colossus 2:
- WinTV v8 is used to schedule TV recordings from a set top box
- Hauppauge Capture was designed to record video from game consoles and has a convenient one-click upload to YouTube. Many users use this easy-to-use recording application handy for recording video from cable and satellite set top boxes

Colossus 2 recordings are made on a computer’s hard drive in a compressed H.264 format. It records from HD Media or Component Video (also called YPbPr). You can also record S-Video or composite video using and optional A/V cable (you can purchase this on the Hauppauge Website). It will record at 1080i30, 720p or 480p at datarates from 1Mbit/sec up to 13.5Mbits/sec. Using Variable Bit Rate encoding, datarates will range up to 21 Mbits/sec when there is fast motion.

Note: if you are recording from a cable or satellite box or a PS3, you will use Component Video. Most set top boxes and the PS3 do not allow recording from the HDMI port. Audio can be supplied to the Colossus 2 from stereo audio connectors on the Hauppauge AV capture cable, optical audio cable or HDMI. Colossus 2 comes bundled with the WinTV v8 and Hauppauge Capture applications to record videos. There are three types of recording formats:
- TS: This is a native H.264 format used by WinTV v8 and Hauppauge Capture. TS files are often used when burning Blu-ray discs. The TS files recorded with the HD PVR 2 can be edited with Sony Vegas (all versions).
- M2TS: a popular format used by many video editors
- M4V: this is similar to the TS file but has an index at the beginning of the file.

Step 1: Install the Colossus 2 board in your PC
Turn the power off on your PC. Install Colossus 2 into a PCI Express X1 or X16 slot. Turn the power on to your PC.

Step 2: Connect the Colossus 2 cables.

HDMI video input
You can connect the HDMI output of some cable TV or satellite boxes and game consoles such as the PS4 and the Xbox One into Colossus 2. Colossus 2 supports HDMI sources up to 1080p60, though the maximum record resolution is 1080p30. The HDMI video source needs to be un-encrypted. If you try to view or record encrypted video sources, you will get a black screen.

Component video input (YPbPr)
Plug the Hauppauge A/V adapter cable into A/V Input on the back of Colossus 2. Then connect the Component video cable from your game console or cable TV set top box into the Hauppauge A/V cable set.

HDMI Output (no delay pass through video)
The HDMI output can support TV monitors up to 1080p60.

Connecting Colossus 2 to a cable TV or satellite set top box
There are three ways to connect to the Colossus 2 from your cable TV or satellite TV set top box:
- a) you can connect using HDMI, though some cable TV and satellite set top boxes encrypt the HDMI output from their box. If you get a black screen on WinTV or Hauppauge Capture using HDMI, then it is likely your set top box is encrypting the HDMI output.
- b) you can connect the Component video (YPbPr) output from your set top box to the Hauppauge A/V adapter.

Step 3: Install the Colossus 2 Windows drivers and applications
Turn on your PC, and boot into Windows.

If you are using a new Hardware wizard appears, please cancel it. Allow windows to load before proceeding.

Step 1: Check your cables
Click Check cable connections.

Step 2: Install Hauppauge Capture
This step installs the Windows driver for Colossus 2, the WinTV v8 and the Hauppauge Capture applications.

Using Hauppauge Capture
After restarting your PC, you will see the Hauppauge Capture icon on your Windows desktop. Click this icon to start Hauppauge Capture.

For more information on Hauppauge Capture, how-to videos and the latest version of Hauppauge Capture, please look here:
www.hauppauge.com/capture

Using WinTV v8 to record TV programs from your set top box
You will find information on the setup and use of WinTV v8 in the Setup and using the WinTV v7 application guide (included in the Colossus 2 package).
First, set your streaming quality: your recommended starting at 1440p and choosing to save your streams looks good. If this is your Internet connection is good and you can broadcast the Quality to 2400p or more.

Troubleshooting

What do the lights on back of Colossus 2 mean?

- Blue light: When Colossus 2 is plugged in and the Windows driver is running, the blue light is on. If the blue light is blinking, the Colossus 2 is not ‘seen’ by your PC. Check the Colossus 2 Windows driver and if needed, re-seat the Colossus 2.

- Yellow light is on after you start Hauppauge Capture: this is good and means Colossus 2 detects video and you are ready to record. If you do not have a yellow light, then your video source is not being ‘seen’ by Colossus 2. If you are recording from a PC gaming system, make sure your graphics card is set to 1080p60 or 720p and the refresh rate is 60Hz. Otherwise, make sure you have set the correct Video and Audio Input in WinTV v8 or Hauppauge Capture.

No video in the Hauppauge Capture preview window:

Step 1: Make sure Colossus 2 is listed in the Capture tab. If you cannot see Colossus 2 listed, power down and re-seat the Colossus 2 (remove the board and then plug it back in). Also, you can reinstall the Windows driver by running a tool like Hauppauge Capture or WinTV v8.

Step 2: Check the video mode of your console. It must be set at either 1080p60 or 720p. If you are using a PC game system, check our website at www.hauppauge.com/pcsetup.

Step 3: Check your cables. Remove each cable and make sure it’s firmly seated into each device you are using. If using HDMI cables, try swapping the HDMI cables (in cable with the out). This is selected.

Step 4: Check the Video input settings. If the Video input setting is wrong, you will get a black preview window. Set Video input to Component video for a PS3 and HDMI for all other devices.

Step 5: If you are using PS3, make sure you have disconnected the HDMI cable between the PS3 and your TV set. Having HDMI connected at the same time as Component video will shut off Component Video and you will not see in the preview window. Once you have disconnected the HDMI cable, you will need to reset the PS3 by PUSHING and HOLDING the power button on the front of the PS3 until you hear the SECOND beep. This means the video mode has been reset.

Step 6: If using HDMI, verify your source device does not use HDCP copy protection (the PS3 uses HDCP on HDMI). If this is the case, use the component video cables.

Step 7: Try recording some video. If you can successfully playback a recording but you cannot see live video in the Preview window, there might be a video rendering problem (video card drivers, hardware acceleration…). Check device settings for video decoder details. To enable hardware acceleration, select “hardware acceleration” in the Settings menu in Hauppauge Capture. If recording fails, it is likely something is wrong with the video input to Colossus 2. This could be a broken or loose video cable or you plugged the cables into the wrong connector on Colossus 2.

Pass through video problems

No video on my TV set:

Open Hauppauge Capture and verify the correct Video Input is selected. Video and audio input must be set initially for passsthrough to work. Also, check the video mode on your game console. The video mode should be 1080p or 720p.

No video on my TV set but I can see video in the Capture tab

Check that the HDMI cable from the Colossus 2 (HDMI out) is connected to your TV monitor and the TV is set to the correct HDMI port if multiple are available on your TV.

Try changing the output resolution from your game console. Some TV monitors may not support all HDMI output resolutions.

Wrong colors with Component Video

Check the Component video cable: unplug and replug the Red, Green and Blue video cables. Make sure the Red audio cable is not plugged into the Red video cable.