HD PVR Rocket

Quick Installation Guide

Included with HD PVR Rocket

Included with HD PVR Rocket:

- HD PVR Rocket recorder: H.264 high definition video recorder, USB 2.0/3.0, with USB thumb drive slot for stand-alone recording and microphone input jack

- HDMI cable

- Hauppauge A/V adapter for Component video

- 'Y' cable: USB Type-B on one end (connects to the Rocket) and dual USB Type-A connectors on the other end for connecting to two USB 2.0/3.0 ports for power and/or data

- Microphone: 3.5mm three pin un-powered microphone

- Hauppauge Capture (download)

Overview

The Hauppauge HD PVR Rocket records video in HD from an HDMI video camera, PC or video game console or cable or satellite set top box. There are two modes of operating with the Rocket: stand alone and PC connected.

In the 'stand alone' mode, recordings are made directly to a USB thumb drive plugged into the front of the Rocket. You can plug in a microphone to the front of the Rocket and add commentary to your recordings.

In the 'PC connected' mode, the Rocket can be plugged into a USB port on a Windows PC and recordings are made directly to the PC's hard drive. **Hauppauge Capture** is supplied with the Rocket and was designed to record videos, trim them and upload to YouTube. Hauppauge Capture includes StreamEez to stream on Twitch and YouTube. You can plug in a microphone to the front of the Rocket and add commentary to your Hauppauge Capture recordings, or you can plug in any PC microphone (USB or any other PC microphone) to add commentary into your recordings.

HD PVR Rocket recordings are made in a compressed H.264 format. It can record from HDMI or Component Video (also called YPrPb). You can also record S-Video or composite video using and optional A/V cable (you can purchase this on the Hauppauge Webstore). It will record at 1080p30, 720p or 480p at datarates from 1Mbit/sec up to 13.5Mbits/sec.

*N*ote: if you are recording from a cable or satellite box, it is recommended that you use Component Video. Many cable and satellite set top boxes (though not all) do not allow recording from the HDMI port.

Audio can be supplied to the HD PVR Rocket from HDMI or stereo audio connectors on the Hauppauge AV cable. Recorded audio is two channel stereo audio.

There are two types of HD PVR Rocket record formats:

- **TS:** this is a native H.264 format. TS files are often used to burn Blu-ray discs. The TS files recorded with the HD PVR Rocket can be edited with most video editors.

- **MP4:** this is the video recording format when the Rocket is used stand alone. MP4 is also encoded with H.264

Operating HD PVR Rocket in Stand Alone mode

HD PVR Rocket can be operated without being connected to a computer. To do this:

- Plug the **Type-B black end** of the supplied **"Y"** cable into the back of the Rocket.

- Plug the **Type-A black end** of the supplied **"Y"** cable into a USB 2.0/3.0 port on a PC *or* a 5V .8 amp minimum power adapter (the same type of power adapter used to charge phones and tablets). If you plug the supplied **"Y"** cable into a PC, we recommend that you plug in *both* the red and black **Type-A** connectors into *two* USB ports.

*N*ote: When connecting to a PC, we always recommend that you use both the black and red Type-A USB connectors on the 'Y' cable. Sometimes PCs do not provide enough power on one USB port and therefore we recommend using BOTH the red and black USB connectors into two USB ports.

- Plug a USB thumb drive formatted as **NTFS** or **FAT32** into the USB slot on the front of the HD PVR Rocket. We have also tested USB connected SSD drives up to 1TB.

- Optional: connect your microphone into the **Microphone input** jack on the front of the Rocket. You can adjust the microphone volume with the mixer on top of the Rocket. Make sure you *unmute* the microphone and *unlock* the control panel when making changes.

- Hit the record button to start recording, and once again to stop recording.

- After recording, do not remove the USB thumb drive until the blinking green light becomes solid green. This indicates that the recording is complete.

You can change the bit rate of your stand alone recordings in Hauppauge Capture. When you make changes in Hauppauge Capture (bit rate, microphone and game audio levels), they are saved to the Rocket when you close the Hauppauge Capture application.

Operating HD PVR Rocket in the PC connected mode

Step 1: Connect the HD PVR Rocket to your PC

Plug the **Type-B black end** of the supplied **"Y"** cable into the back of the Rocket. Plug the **Type-A black end** of the supplied **"Y"** cable into a USB 2.0/3.0 port on a PC.

*N*ote: if possible, use a USB 3.0 port on your PC (some USB 2.0 ports do not supply the power needed by the Rocket). If you must use USB 2.0 ports, we recommend plugging both the red and black USB Type-A connectors into two USB ports.

Step 2: Connect HD PVR Rocket to your video source

You can use either HDMI, Component video or Composite video. When using HDMI, connect our video source to the **HDMI In** port on the Rocket.

Step 3: Connect HD PVR Rocket to your TV monitor

Connect the HD PVR Rocket **HDMI Out** port to your TV monitor.

Step 4: Install Hauppauge Capture

You can find the Hauppauge Capture download plus how-to videos and user guides at: *www.hauppauge.com/capture*

The Hauppauge Capture installer is downloaded to your Downloads directory. It will be called **hauppaugecapture_1_1_zzzzz.exe** where zzzzz is the version number.

Run this file to start the installation.

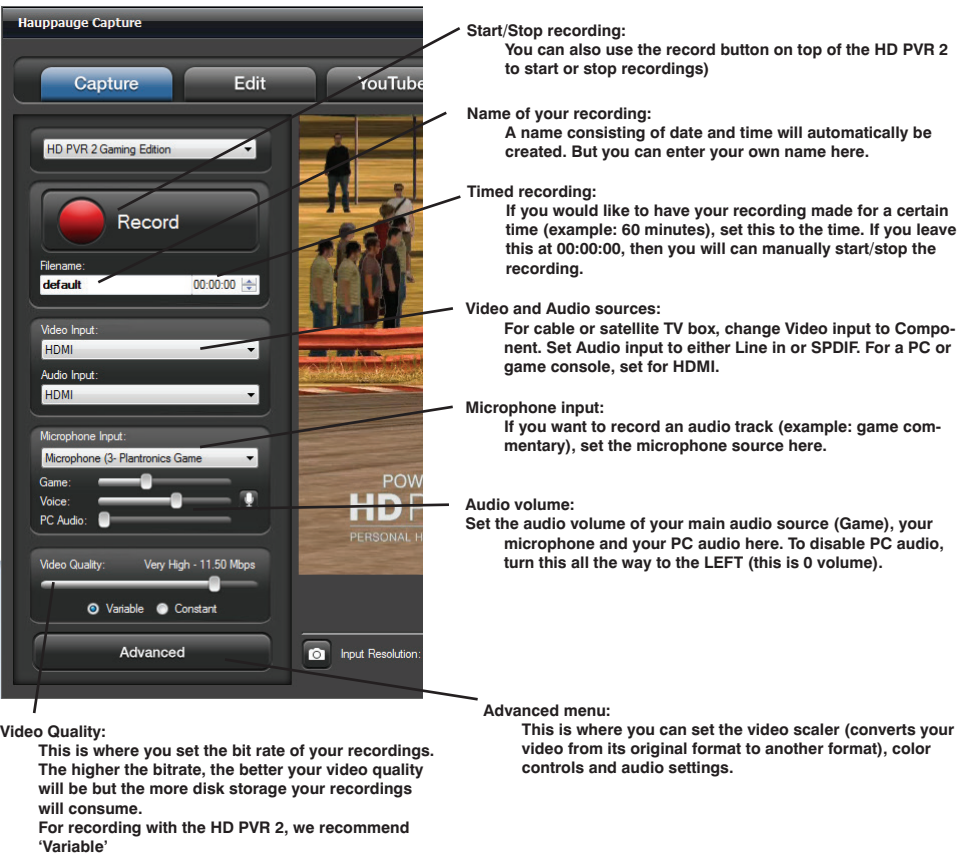### Step 5: Use Hauppauge Capture to record and trim your videos

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

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*
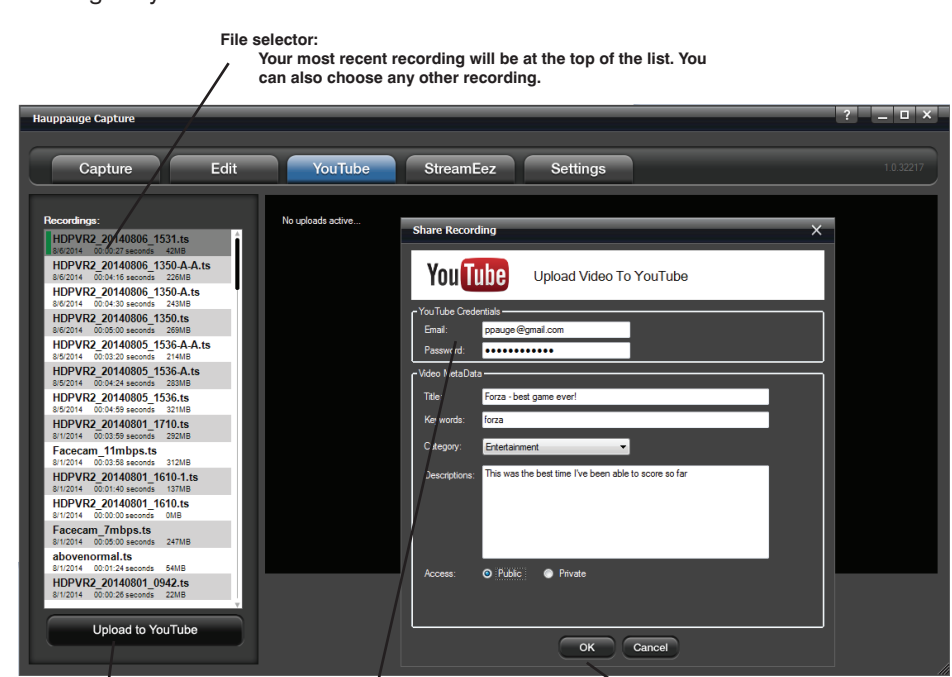

Capture: to record videos
Edit: trim the beginning and end of your videos
YouTube: to upload your videos
StreamEez: stream your videos with Twitch and YouTube
Settings menu: Personal Logo setup Facecam setup Recording directory

Input Resolution: this is the video resolution of your video source
Preview window: you can see your video here

Capture tab

Start/Stop recording: You can also use the record button on top of the HD PVR 2 to start or stop recordings)

Name of your recording: A name consisting of date and time will automatically be created. But you can enter your own name here.

Timed recording: If you would like to have your recording made for a certain time (example: 60 minutes), set this to the time. If you leave this at 00:00:00, then you will can manually start/stop the recording.

Video and Audio sources: For cable or satellite TV box, change Video input to Component. Set Audio input to either Line in or SPDIF. For a PC or game console, set for HDMI.

Microphone input: If you want to record an audio track (example: game commentary), set the microphone source here.

Audio volume: Set the audio volume of your main audio source (Game), your microphone and your PC audio here. To disable PC audio, turn this all the way to the LEFT (this is 0 volume).

Video Quality: This is where you set the bit rate of your recordings. The higher the bitrate, the better your video quality will be but the more disk storage your recordings will consume. For recording with the HD PVR 2, we recommend 'Variable'

Advanced menu: This is where you can set the video scaler (converts your video from its original format to another format), color controls and audio settings.

Edit tab

The Edit tab uses a fast cut and trim, which is very fast and preserves the video quality of your recording

File selector:
Your most recent recording will be at the top of the list. You can also choose any other recording.

Export to MP4:
Some video editors need an MP4 file. When you are finished trimming your videos, click this button and your video will be converted to MP4 without any loss in video quality.

Play and pause your video:
You can start or pause your videos with this button

Cut from the LEFT:
When you click this button, you will delete all of the video to the LEFT of the Video Mark.

Video Mark:
This shows you the current position in your recording of the video you see in the preview window

Cut from the RIGHT:
When you click this button, you will delete all of the video to the RIGHT of the Video Mark.
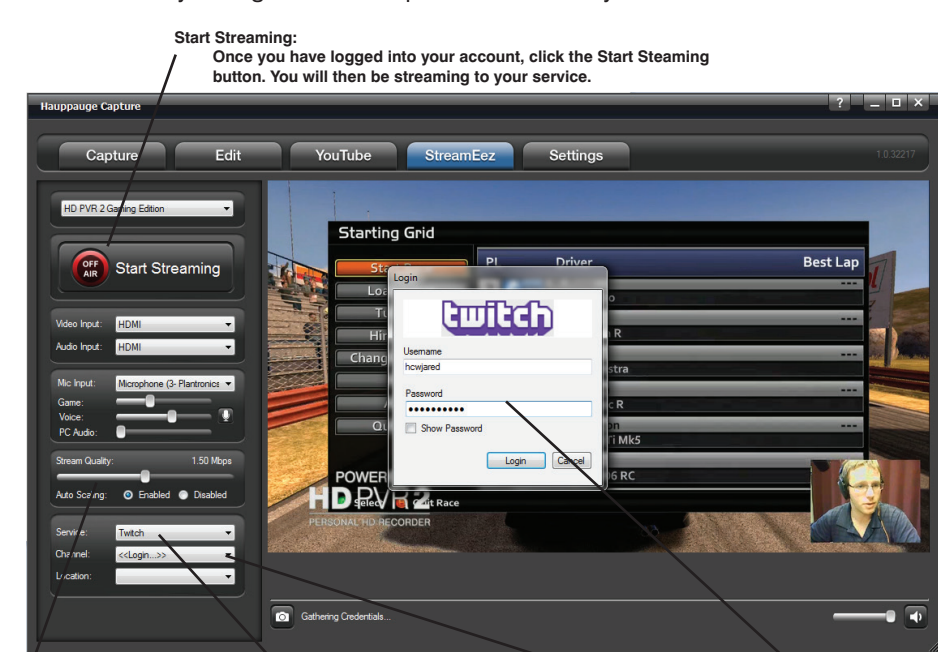
YouTube tab

The YouTube allows you to enter your YouTube credentials and quickly upload your video recordings to your YouTube channel.

File selector:
Your most recent recording will be at the top of the list. You can also choose any other recording.

Upload to YouTube:
After you have trimmed your videos, click here to upload them to YouTube.

Enter your YouTube credentials:
Enter your user name and password. Note: if you have multiple YouTube accounts linked to one user name and password, you cannot use this function to upload to YouTube. You will need to manually upload using a web browser. Your videos can be found in the MyVideos folder on your PC.

Enter the Title, Keywords and Description:
This is the minimum information required by YouTube to upload your videos. Then click OK.

StreamEez tab

Live stream with your logos and microphone commentary on Twitch and YouTube.

Start Streaming:
Once you have logged into your account, click the Start Steaming button. You will then be streaming to your service.

First, set your streaming quality:
We recommend starting at 1.5Mbps and checking to see if your stream looks good. If it is, then your Internet connection is good and you can increase the Quality to 2.0Mbps or more.

Select your streaming service:
You can stream with Twitch or YouTube. You can also add your commentary by selecting your microphone in the 'Mic input' box above. For more information on YouTube streaming setup, go here: www.hauppauge.com/youtube

Click <Login>:
Once you have selected your service, click here and the Login box will open. If you are using Twitch, you can also choose your Ingest server in the Location box.

Login box:
This is where you enter your user name and password. Once you have entered this information, you will see "Gathering credentials' as we try to log onto your account.

Troubleshooting

What do the lights on front of HD PVR Rocket mean?

- **Green light:** In PC connected mode, when HD PVR Rocket is powered on and the Windows driver is running, the green light is on. It is ready to record or stream.

- **Red record ring:** indicates that HD PVR Rocket is recording or streaming video.

- **Blinking red:** In stand alone mode, blinking red means the Rocket isn't seeing a USB thumb drive or your thumb drive is not properly formatted (see below).

- **Blinking blue:** Blinking blue means the Rocket isn't seeing video or your video is out of range. There are some things you can do to fix this:
First, when PC connected, make sure you have plugged BOTH the red and black USB Type-A connectors into two USB ports.
Next, check your video connections. If you are recording from HDMI, unplug the HDMI cable and replug it. Make sure that your video source does not have HDCP copy protection. If you are using Composite video, check to make sure the Yellow composite video connection is going to the Blue Component video connector. If you are recording from a PC, make sure the HDMI output is enabled (normally you have to hit the F4 key to turn on the HDMI port.
Next, if you are using Yellow composite video, update your Rocket to the latest firmware since not all Rocket firmware supported Composite video (but the latest firmware added this support). In all cases, flashing the firmware can sometimes correct video issues as well.

Are you getting low audio volume in your Rocket recordings?

If you find that the audio is too low after recording in standalone mode, download and install the Hauppauge Capture application. After installation, open Hauppauge Capture. Make sure the Rocket is listed as the source (you should see HD PVR Rocket listed). Then increase the Game audio volume in Hauppauge Capture with the slider.

Now close Hauppauge Capture to save the new audio volume setting and you're recordings will have increased audio volume.

Does your Rocket keep blinking red even though you have a USB thumb drive plugged in?

If the Rocket keeps blinking red even though you have a USB thumb drive (flash drive) plugged in, your thumb drive might not be formatted as NTFS. Try reformatting the thumb drive on a PC: inserting the thumb drive into a USB port on your PC and then when the drive is assigned a drive letter, right click on the drive and choose **Format** (choose NTFS or FAT32).

The red light will also blink if your USB thumb drive is corrupt. Most times this can be easily fixed by plugging your thumb drive into a Windows PC and running Error Check. To do this: insert the thumb drive into a USB port on your PC and then open File Manager. Select your thumb drive. Right click on the thumb drive and select Properties > Tools > Error check and click Check. When the scan is complete, your USB thumb drive will be 'clean' and should work in the Rocket.

No video in the Hauppauge Capture preview window:

Step 1: Make sure HD PVR Rocket is listed in the Capture tab. If not, then please check your USB cables and make sure the blue light is on the front of HD PVR Rocket. If you cannot see HD PVR Rocket listed, reinstall Hauppauge Capture. Power cycle the Rocket and reboot your PC after reinstalling the drivers.

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 reseated into each device you are using. If using HDMI cables, try swapping the HDMI cables.

Step 4: Check the Video input setting. If the Video input setting is wrong, you will get a

black preview window. Set Video input to Component video for a cable or satellite box and HDMI for all other devices. Is the yellow light on on the front of HD PVR Rocket? If the yellow light is not on, then either you have the wrong Video input source set or your game console is not turned on.

Step 5: If using HDMI, verify your source device does not use HDCP copy protection. If your video source has HDCP copy protection, you will see a black screen.

If capture fails, it is likely something is wrong with the video input to HD PVR Rocket. This could be a broken or loose video cable or you plugged the cables into the wrong connector.

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 passthrough to work (if you power cycle the HD PVR 2, it may revert to its default setting and will need to be set again). Also, check the video mode on your PS3 or Xbox 360. 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 HD PVR 2 (HDMI out) is connected to your TV monitor and the TV is set to the correct HDMI port if multiple are available on yourTV. 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.