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WinTV v10

Support: Running WinTV TV tuners and HD PVR 2 under Linux

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## Raspberry Pi Support for Hauppauge TV tuners

Hauppauge technical support has been testing with the Raspberry Pi 3 and 4, which work "out of the box" with Raspbian OS 4.19 or later with these Hauppauge TV tuners: WinTV-soloHD (Europe/ANZ), WinTV-dualHD (North America and Europe), WinTV-HVR-955Q (North America) and the 461e/WinTV-Nova-S2.

Raspbian OS

[Configuring the Raspberry ...](#)



Here is a video showing the installation of the WinTV-dualHD on a Raspberry Pi 4

[Click to play video](#)

The WinTV-dualHD drivers come with the latest Raspbian OS, so all you need to do is plug your WinTV-dualHD into your RPi 3 or 4, install a TV application like Kaffeine, connect an antenna and scan for channels.

Firmware is needed for some Hauppauge TV tuners

Some Hauppauge TV tuners, in particular all European DVB tuners, need additional firmware to be install on your Raspberry Pi. Here are the command lines to add Hauppauge firmware for those tuners which need it. You can load the firmware at any time, but it needs to be installed before you use the TV tuner.

Firmware install instructions for the WinTV-dualHD and WinTV-soloHD (European or Australia/New Zealand DVB)  
 cd /tmp

```
wget https://www.hauppauge.com/linux/dvb-demod-si2168-b40-01.fw # download the SI2168 firmware  

md5sum dvb-demod-si2168-b40-01.fw # verify first couple and last couple chars match b267...8f6e  

sudo cp dvb-demod-si2168-b40-01.fw /lib/firmware # copy the firmware to the /lib/firmware directory
```

[Linux and the 461e, WinTV...](#)



Use the WinTV-NOVA-S2 or PCTV 461e

(new and old models) Satellite TV receiver with your Raspberry Pi

Here is a video on how to install the drivers and how to use the 461e with Kaffeine to watch satellite TV

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Firmware install instructions for the WinTV-Nova-S2 or 461e (revision B7H9/B8H9 and revision B6H9 or earlier):

# Get both 3103 and 3103b firmware

sudo su

cd /lib/firmware

```
wget https://github.com/OpenELEC/dvb-firmware/blob/master/firmware/dvb-demod-m88ds3103.fw?raw=true # 3103 (non-b)
firmware
```

```
wget https://www.hauppauge.com/linux/dvb-demod-m88ds3103b.fw # 3103b firmware
```

Firmware install instructions for the WinTV-HVR-5525 (PCI-e, Analog, DVB-C, DVB-S/S2, DVB-T/T2):

cd /tmp

```
wget https://www.hauppauge.com/linux/dvb-demod-si2168-b40-01.fw # download the SI2168 firmware
```

```
md5sum dvb-demod-si2168-b40-01.fw # verify first couple and last couple chars match b267...8f6e
```

```
sudo cp dvb-demod-si2168-b40-01.fw /lib/firmware # copy the firmware to the /lib/firmware directory
```

```
wget https://github.com/OpenELEC/dvb-firmware/raw/master/firmware/dvb-demod-m88rs6000.fw # RS6000 firmware
```

```
md5sum dvb-demod-m88rs6000.fw # verify first couple and last couple chars match m88rs6000
```

```
sudo mv dvb-demod-m88rs6000.fw /lib/firmware # copy the firmware to the /lib/firmware directory
```

Firmware install instructions for Starburst 2 (PCI-e, DVB-S/S2)

Note: "Starburst 2" (model 150300 or 150310) is a digital satellite (DVB-S / DVB-S2) PCI-e TV tuner. Its DVB-S/DVB-S2 tuner is identical to the satellite tuner part on the WinTV-HVR-5525. While the WinTV-HVR-5525 is fully supported since Linux kernel 4.1, Starburst 2 is not detected "out of the box". But making it work is easy. By adding a configuration file cx23885.conf, the linux kernel treats the card as a WinTV-HVR-5525. Tested in kernel 4.13.0-21-generic.

The steps:

- 1. Install firmware file dvb-demod-m88rs6000.fw
- 2. In directory /etc/modprobe.d/ create the file cx23885.conf with this content: options cx23885 card=52
- 3. Reboot

Open a terminal window and enter the following commands (example for Ubuntu Linux):

sudo su

cd /lib/firmware

```
wget https://github.com/OpenELEC/dvb-firmware/raw/master/firmware/dvb-demod-m88rs6000.fw
```

```
cd /etc/modprobe.d
```

```
echo "options cx23885 card=52" > cx23885.conf
```

Then reboot the system.

Firmware install instructions for the WinTV-HVR-1950

cd /tmp

```
wget https://www.hauppauge.com/linux/firmware_1900.fw
```

```
md5sum firmware_1900.fw # verify first couple and last couple chars
```

```
sudo cp firmware_1900.fw /lib/firmware # copy the firmware to the /lib/firmware directory
```

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