

Setting up SatDump & VLC Media Player for ISS S-Band HamTV

24-Dec-2025
K4KDR

It is assumed that you have SatDump & VLC Media Player installed & know how to launch both apps.

Suggestion: play a known-good video file (WITH audio) in VLC Media Player to confirm that you will hear what is played through your speakers.

These are the settings that work for me. Please adjust to your preferences or what you find to work best on your computer!

The screenshot shows the SDR software interface with several settings highlighted by red and yellow boxes and annotated with text:

- Select your SDR device:** A red box highlights the 'Device' dropdown menu, which is set to 'AirSpy One 260868c8268d51'.
- If using a down-converter, enter the offset:** A red box highlights the 'MHz (LO offset)' field, which is set to '1833.000000'.
- Select a valid Sample Rate for your SDR; set Decimation so that final bandwidth is slightly greater than 2M (i.e., AirSpy-mini SR=6M, divide by -2- so that effective value = 3M):** A yellow box highlights the 'Decimation' field, which is set to '2', and the 'Sample Rate' field, which is set to '6 Msps'.
- Click 'Start' and adjust FFT settings to show a visible waterfall:** A red box highlights the 'Start' button and the 'FFT' settings section.
- Adjust FFT Min & Max to show noise floor at bottom w/ approx 20db space above (add more space if your SNR is > 20db):** A yellow box highlights the 'FFT Min' and 'FFT Max' fields, which are set to '-70.799' and '9.905' respectively.

The interface also shows various other settings such as 'Sensitivity', 'Gain', 'Bias-Tee', 'LNA AGC', 'Mixer AGC', 'Stop', 'FFT Size', 'FFT Rate', 'Waterfall Rate', 'Avg Num', 'GQRX [csete]', 'Palette', 'Processing', 'Recording', 'Tracking', 'VFOs', and 'Debug'.

On the Processing tab, select 'ISS HamTV to UDP'

Click the 'Start' button and see the live Demodulator at the bottom !!! Make note of the address where the stream will be sent

Network Server
Address : 127.0.0.1
Port : 8888

Open the 'Recording' tab; start I/Q recording just before AOS (** NOTE: screen may freeze for up to 1-minute! SatDump has not crashed - just wait for processing to continue)

DVB-S Demodulator (WIP)

Signal	Viterbi
Freq : -21033 Hz	State : NOSYNC
SNR (dB) : 0.000	BER : 0.386458
Peak SNR (dB) : 0.000	
Avg SNR (dB) : 0.000	

Deframer
State : NOSYNC

Reed-Solomon
RS : 0 1 2 3 4 5 6 7

Network Server
Address : 127.0.0.1
Port : 8888









