



Combo DVB-T2/T & DVB-S2/S Receiver

KH6HTV VIDEO offers for sale a consumer grade, digital TV receiver which we have programmed for operation on the amateur 70 cm band (420-450 MHz). We have pre-programmed it to receive, five, 6 MHz



TV channels for DVB-T. They are: 423, 429, 435, 441 & 447 MHz. DVB-T is the European TV standard for terrestrial broadcast digital television. Many amateur TV hams here in the USA have adopted DVB-T as the digital modulation standard of choice for DATV. The receiver will work with either 6, 7 or 8 MHz bandwidths. Some USA DATV hams are using narrower bandwidths such as 2 or 4 MHz. This receiver will not work on them. If desired, the user can also manually program the receiver for additional frequencies. The receiver tunes from 50 MHz to 850 MHz.

This receiver is a combination receiver. It can also be used as a digital satellite receiver for DVB-S with an LNB and satellite dish. Some ATV hams are also experimenting using DVB-S on the amateur 23 cm band (1240 - 1300 MHz). This receiver will work on the 23cm band. However, KH6HTV has not tested it for such, nor programmed it for this use.

The receiver provides two separate A/V outputs. They are digital HDMI with up to 1080P high definition resolution, and composite analog video with NTSC standard definition of 480i, plus line level stereo audio outputs.

The receiver operates off of either AC or DC power. On AC it works with either 120 or 240 Vac (50/60 Hz). For DC it requires +12Vdc.

The sensitivity of this receiver for 70cm DVB-T is approximately -94dBm. This is when it was tested using a DVB-T signal with the following parameters: QPSK, 6 MHz BW, 8K FFT, 5/6 Code Rate (FEC), 1/16 Guard Interval, H.264, & 1080P. With a good, low noise amplifier, such as the KH6HTV model 70-LNA, the sensitivity is improved to about -99dBm. (see app. note AN-29 for details)

The following accessories are included with the receiver: remote control, analog A/V cable, European to USA power cord adapter, PAL to F coax adapter and PAL to SMA coax adapter.

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