



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



KH6HTV VIDEO offers for sale a consumer grade, digital TV receiver which we have pre-programmed for operation on the amateur **70 & 33cm** bands (420-450 MHz & 902-928 MHz). It has been programmed to receive, eight, 6 MHz ATV channels for DVB-T.

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. This 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 100 MHz to 999 MHz. KH6HTV has pre-programmed the receiver for the following standard ATV channel center frequencies: 423, 429, 435, 441, 447, 909, 915, & 921 MHz. Additional frequencies can be pre-programmed upon request.

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. HDMI with up to 1080P high definition resolution, and composite analog video with NTSC or PAL standard definition of 480i, plus line level stereo audio outputs. The receiver can also function as a DVR (Digital Video Recorder). It records onto a USB memory stick, thumb drive in the DVD, .TS format.

The sensitivity of this receiver for 70 cm DVB-T is approximately -97 dBm. 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 encoding, 1080P & 5.5Mbps. With a good, low noise pre-amplifier, such as the KH6HTV model 70-LNA, the sensitivity is improved to about -99 dBm.

The receiver operates on +12Vdc (250mA). A 120/240 Vac wall wart to 12Vdc is included. The antenna connector is the European PAL. Included with the receiver are coax adapters for PAL to F and F to SMA. Other included accessories are a remote control, & HDMI cable.

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