



Model 70-14 70 cm, DVB-T & DVB-S TV RECEIVER



The Model 70-14 is a set-top box, TV receiver imported from China and marketed by KH6HTV Video to the amateur radio/TV market. It is capable of receiving DVB-T signals on the 70cm, amateur radio band (420-450 MHz). It can also be used as a DVB-S receiver on the 23cm amateur radio band (1240-1300 MHz). (note: we are unable to test and guarantee DVB-S operation). KH6HTV Video pre-programs these set-top receivers to receive all five of the USA amateur 70cm band, 6 MHz bandwidth, TV channels, (423, 429, 435, 441 & 447 MHz). We have measured the sensitivity to be -92 to -94dBm for 6 MHz, QPSK, 70cm, DVB-T signals. This is better than specified by the manufacturer. The specifications on the following pages are from the Chinese manufacturer.

Features:

1. Complies with DVB-T2 & DVB-S2 standards
2. Supports MPEG2/4, H.264 standards
3. Supports ground automatic station search, manual station search
4. Supports blind scan, manual search
5. Supports 3D graphics, video, programs
6. Supports Sleep Timer
7. Supports teletext, subtitles TV
8. Supports 7 days EPG function
9. Supports PVR recorder, TIMESHIFT, & media file playback
10. Video output resolution: 480i, 576i, 480p, 576p, 720p, 1080i & 1080 p
11. Video, audio decoder supports: MPEG2/4, H.264 (L3L4.1) format
12. MediaCodec: dat, vob, div, mov, mkv, jpeg, ts, etc.
13. Audio codec supports: wma, MP3, AAC (.wma, MP3, m4a), etc.
13. Photo codec supports: jpeg, BMP, PNG, etc.

Specifications:

1. Front Panel push button Controls: Power, CH+, CH-, VOL+, VOL-, MENU, OK
2. Front Panel Display: 4 digit green LED numeric readout, Power ON red LED, & Valid Signal green LED
3. Front Panel Connector: USB 2.0 host
4. Rear Panel Controls: Master AC power On/Off switch
5. Rear Panel Terrestrial RF Connector: Belling-Lee, (IEC1622, IEC female)
6. Rear Panel Satellite LNB Input RF Connector: type F, (IEC601692)
7. Audio/Video Connectors: HDMI, Component Video, Composite Video, Stereo L&R Audio, plus Coaxial digital audio
8. Color: Black
9. Dimensions: 21.5 x 13 x 4 cm (8 1/2" x 5 1/8" x 1 5/8")
10. AC Power Cord Plug: EU or UK
11. AC Power Required: 100-250 Vac, 50/60 Hz (* +12Vdc optional)
12. Remote Control Power Required: 2 x AAA batteries (not included)

Hardware Specifications:

1. CPU: Montage VT6000 (128 pin) MIPS 34Kf@600MHz
2. Memory: 32X16Mbit DDR2 Frequency1066
3. Flash: 32M bytes
4. Demodulator Type: Montage DM6000 Chip Set.
5. S2+TUNER: MaxLinear MXL 608
6. DVB-T2 Demodulation: Terrestrial Receiver Standard DVB-T2/T(EN_302755 V1.3.1/EN 300744).
7. Input RF Frequency: 48~866 MHZ.
8. Bandwidth: 6 MHz, 7 MHz,8 MHz.
9. Constellation: QPSK 16QAM, 64QAM and 256QAM.
10. Input level: 83~5dBm.
11. DVB-S2 Channel Decoder:
12. Frequency Range: 950 MHz - 2150 MHz.

13. Sensitivity Level: 10~ 81dBm.
14. FEC Mode: 1 / 4, 1 / 3, 2 / 5, 1 / 2, 3 / 5, 2 / 3, 3 / 4, 4 / 5, 5 / 6, 8 / 9, 9 / 10.
15. Guard intervals: 1 / 4, 1 / 8, 1 / 16, 1 / 32.
16. Neighboring: According to ETSI TR 101 190 V1.2.1.
17. Active Ant Power: 13/18V DC @ 500mA MAX, Overload Protection.

Package Includes:

- 1 * DVB-T2 + S2 COMBO Receiver
- 1 * Remote control
- 1 * RCA composite A/V Cable
- 1 * English User manual

KH6HTV Video also includes a type F (female) to PAL DIN (male) coax adapter

KH6HTV-VIDEO www.kh6htv.com e-mail: kh6htv@arrl.net
Maui, Hawaii & Boulder, Colorado, USA

(*) KH6HTV VIDEO also offers an extra cost option (- DC) to add the capability to also operate from +12Vdc power and to also add a "Valid Signal" logic output to be used to drive a PTT line in a transmitter. For details, see Application Note, AN-35.