

Digital TV Receiver

Model: VIP-TimBox+



Main Feature

- Support DVB-C or DVB-T/T2 tuner and demodulation
- RF Signal Strength and signal quality display
- MPEG-2/MPEG-4AVC/H.264 SD/HD decoding
- Automatic and manual full band channel scanning
- Manage up to 1000 TV and Radio channels
- Channel edition, delete, favorite and parental lock
- True colors on screen display user friendly menu
- Multi languages, English by default
- HDMI, YPbPr, S/PDIF and CVBS outputs
- Automatic PAL/NTSC conversion
- EPG up to 7 days
- PVR via plug-in USB HDD
- Software upgrade through USB and on air
- Channel information save in memory after power off
- Front panel displaying channel number or time
- Teletext via OSD & VBI
- Full multi-lingual DVB subtitling and audio track support
- Low power consumption and green power standby mode
- Embedded hardware less CA system Enigma
- RF re-modulator(21CH~69CH)
- HbbTV interactive application in option





Technical Specification:

DVB-T2/T Tuning and De-Multiplexing

Connector	1 x IEC 16902 female 75Ω for Input, 1 x IEC 169-2 male 75Ω for loop through output
Input Frequency	104~862MHz (VHF/UHF)
Input Level	-70 ~ -20dBm
Demod standard	DVB-T(EN 300 744) and DVB-T2 (EN302 755)
Demodulation	QPSK, 16QAM, 64QAM for DVB-T QPSK, 16QAM, 64QAM, 256QAM for DVB-T2
FFT Mode	2K, 8K for DVB-T 1K, 2K, 4K, 8K, 16K, 32K, 32K ext for DVB-T2
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 for DVB-T 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 for DVB-T2
Guard Interval	1/4, 1/8, 1/16, 1/32 for DVB-T 1/4, 19/128, 1/8, 19/256, 1/16, 1/32, 1/128 for DVB-T2
Bandwidth	6MHz, 7MHz, 8MHz
De-multiplexer	MPEG2 ISO/IEC 13818-1

DVB-C Tuning and De-Multiplexing

Connector	1xIEC 169-24 female 75Ω for Input 1xIEC169-1 male 75Ω for loop through output
Standard	Compliant with ITU J.83 Annex A,C, Annex B in option
Input Frequency	47~862MHz
Input Level	43~ 73dBuV for 64QAM, 47~ 77dBuV for 256QAM
Symbol Rate	1~7MBaud with step of 1kBauds
Constellation	16/32/64/128/256QAM
Bandwidth	8MHz in Annex A and C 6MHz in Annex B in option
De-multiplexer	MPEG2 ISO/IEC 13818-1

Digital Video Decoding

Standard	ISO/IEC 13818-2 and ISO/IEC 14496-10
Video Decoding	MPEG-2 MP@ ML for SD, MP@ HL for HD H.264/AVC MP@ L3.0 for SD, HP@ L4.1 for HD VC-1 AP@L1 for SD, AP@L3 for HD
Aspect Ratio	4:3 and 16:9, HD to SD Conversion
Video Resolution	480i/480p/576i/576p/720p/1080i/1080p
Video Bit Rate	MPEG-2 MP@ML: 2~15 Mbps; MPEG-2 MP@HL: <19 Mbps; MPEG-4 AVC HP@L3:<10Mbps; MPEG-4 AVC HP@L4: <20Mbps

Digital Audio Decoding

Standard	ISO/IEC13818-3 and TR1011154
Audio Decoding	MPEG-1 Layer I & Layer II Musicam



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	Dolby Digital (AC3) & Dolby Digital AC-3/E-AC3 MPEG-2 AAC-LC & MPEG4 HE-AAC AAC5.1, AAC+ Level 2
Audio Mode	Single channel, Dual Channel, Stereo, Joint Stereo
Audio Sampling Rate	22.1kHz, 32kHz, 44.1kHz and 48kHz
Subtitle & Teletext	
Subtitle	DVB Subtitle
Teletext	EBU TELETEXT
Menu Function	
Channel Search	Automatic search based on LCN or NIT Manual search based on Frequency and channel number
Channel Management	Up to 1000 channels edition, delete, move, lock, rename; 8 favorite channel groups
EPG	7 days
Language	English, other languages in option
Software Update	loader through USB and on Air
Security	Menu lock, Parental lock, PIN lock
LCN	Support V1 and V2 service listing
Parental Control	Default setting 'disabled'
PVR Option	
Function	Play/Stop/Record/Pause/Forward/Back, Scheduled Recording using EPG
Profiles	3.x, 4.0, 5.0, 6.0 Home Theater & HD profiles
File System	FAT 32
Media Format	MPEG2, TS, AVI, MKV, ASF, Quick, DivX, FLV, VC-1 DivX 3.X ~ 6.X, AVI, VOB, MOV, MKV, JPEG, BMP, PNG, Motion JPEG, Flash 3.1 Lite
Connector	USB 2.0 supporting external hard disk of 250-500GB
Conditional Access Option	
CA Vendor	Hardware less Enigma
CA Type	Smart card less or Smart card
UHF re-modulator in option	
RF re-modulator	CH 21~69, default channel 63
Interactive application in option	
Hbb TV	ETSI TS 102 796 V.1.1.1
System Resource	
CPU	MIPS 34Kf@600MHz /1000DMIPS
Operating System	Linux/ECOS
SDRAM	128Mbytes DDR2/DDR3
FLASH	8Mbytes
Front Panel	
Keys	MENU/OK/VOL+/VOL-/CH+/CH-, ON/OFF/ Standby
7-Segment LED	To display the channel number or/and other information

www.dh-tv.com

Address: No.3 Feng Zhi East Road, Xi Bei Wang Town, Hai Dian District, Beijing, 100094, China
Telephone: (+86)010-57802000, **Email:** support@dh-tv.com



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Bi-colored LED	Red/Green to indicate the various states of the STB
USB	1 x USB 2.0 for external Hard Disk PVR function
Smart Card	Reader compliant to ISO in option

Back Panel

RF	1 x F female 75Ω for Input, 1 x IEC 169-2 male 75Ω for loop through output
CVBS	3 x RCA female for Video, Audio Left and Audio Right
HDMI	1 x HDMI 1.3 with HDCP (up to 1920x1080p)
USB	1 x USB 2.0 for external Hard Disk PVR function and software update
Power Switch	ON/OFF

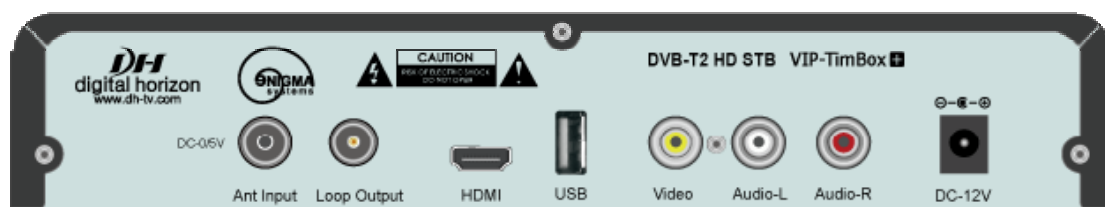
Physicals

Power Supply	100-240V AC, 50/60HZ (Input) Antenna power DC +5V supply, (Output, default 'OFF')
Power Consumption	12W in operation <1W auto Standby Green Power Mode
Temperature	Operation 0~+45°C; Storage -10~+60°C
Humidity	20~90%, non-condensed
STB Dimension	40mm(Height) × 170mm(Width) × 130mm(Depth)
Gift Box Dimension	78mm(Height)x 148mm(Width)x 225mm(Depth)
Weight	0.5Kg with gift box
Carton Information	618*416*246mm, Gross Weight: 10.5kg, 20 STB/Carton
Shipment Information	14000 units per 40' High Container
Accessories	Remote Control, Battery, AV Cable, User Guide, HDMI Cable in option

Remote Control Unit

Keys	45 with digit, Up/Down/Left/Right/OK, Volume+/-, Program+/-, PVR keys, EPG key, etc
Mode	Infra Red with 38kHz Carrier
Battery	2 x 1.5V, AAA

Rear Panel:



Order Information:

Product Name	DVB-T2 STB with CAS	DVB-C STB with CAS
Model	VIP-TimBox+ T2/T	VIP-TimBox+ C

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