

H.264 - 4:2:2 DVB-T2/T/S2/S Receiver

The new HDR-70 is a digital HD portable receiver designed by SVP Broadcast Microwave to perform DVB-T, DVB-T2, ISDB-T, DVB-S (optional) and DVB-S2(optional).The HDR-70 is a two-box system with 70 MHz intermediate frequency. It consists of a control unit and one or more RF heads connected with triax cable. The distance between the control unit and the RF heads can be up to 600 m. The control unit has available a 70 MHz input connection through which it is possible to receive the signal from the RF head via a triax cable. Besides, this control unit has another input connector in which the signal is received in the L band for DVB-S and DVB-S2.

It is an H.264 and MPEG2 HD/SD professional broadcast quality decoder, based on NTT technology. Also, it works in 4:2:2 with 10 bits. Ultra-low latency (end-to-end) of less than one frame is achieved as long as it is used together with SVP transmitters.

This receiver developed by SVP Broadcast Microwave has several outputs: analogue video, Transport Stream over IP, 3G/HD/SD-SDI and HDMI outputs. It offers the received signal in all outputs simultaneously.

ASI and Transport Stream over IP inputs enable the use of this receiver as a standalone decoder, and also the ASI and the Transport Stream over IP outputs enable to use the receiver as a demodulator.

It incorporates a complete Autotracking system by GPS and remote polarization control.



Duplexor SCDA



Internal Unit



External Unit

FEATURES

- Frequency bands: 2, 4, 6, 7 and 10 GHz
- H.264 compression technology
- Upgradable to 4K H.265
- Highest video quality available
- Lowest Delay in H.264: 33 ms
- Power supply: 100 - 265 VAC & 20 - 36 VDC
- BISS-1 and BISS-E encryption
- ASI and Transport Stream over IP with FEC input and output
- HDMI output
- Integrated autotracking system by GPS: Sectorial and 2 axis positioner
- Remote Polarization Control

OPTIONS

- DVB-S2 and DVB-S compliant
- IP input/output
- AES 128 and AES 256

APPLICATIONS

- Portable and Point-to-Point radio link
- SNG
- High performance decoder
- IP networks

Characteristics

RF stage		DVB-T2 and DVB-T		ASI and IP	
Frequency Bands:	2 GHz, 4 GHz, 6 GHz, 7GHz and 10 GHz	Outputs and Inputs:	ASI Transport Stream (EN50083-9) Transport Stream over IP (Optional) SMTP2022/CoP3) - FEC	Max. TS packets / IP packet:	7
Tuning Step:	10 kHz				
Input Level Range:	DVB-T2 @ 2 GHz: -20 to -102 dBm (4 Mbit/s) DVB-T2 @ 5 GHz: -20 to -101 dBm (4 Mbit/s)				
IF Frequency:	70 MHz				
Demodulation		Video		Audio	
DVB-T2:	COFDM 1k, 2k, 4k, 8k, 8k ext QPSK, 16 QAM, 64 QAM, 256 QAM LDPC FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 IG: 1/4, 19/128, 1/8, 19/256, 1/16, 1/32, 1/128 Time Interleaving Bandwidth: 1.7, 5, 6, 7, 8 MHz Max. bit rate: 46.4 Mbps	Outputs:	1xComposite video (PAL/NTSC) 2xSD-SDI, HD-SDI and 3G-SDI HDMI (1.4)	Formats:	1080p (1920x1080) - 23,98/ 24/ 25/ 29.97/30/ 50/ 59,94/ 60 Hz 1080i (1920x1080) - 50/ 59,94/60 Hz 720p (1280x720) - 23,98/ 24/ 25/ 29.97/30/ 50/ 59,94/ 60 Hz 576i (720x576) - 50 Hz 480i (720x480) - 59,94 Hz
DVB-T:	COFDM 2k and 8k mode QPSK, 16 QAM, 64 QAM FEC: 1/2, 2/3, 3/4, 5/6, 7/8 IG: 1/4, 1/8, 1/16, 1/32 Bandwidth: 5, 6, 7, 8 MHz Max. bit rate: 31.67 Mbps	Output	HDMI/ SDI Embedded/ AES Digital/ Analogue	Analogue:	2 Stereo/ 4 Mono
ISDB-T:	COFDM 2k, 4k and 8k mode QPSK, 16 QAM, 64 QAM FEC: 1/2, 2/3, 3/4, 5/6, 7/8 IG: 1/4, 1/8, 1/16, 1/32 Bandwidth: 6, 7, 8 MHz Max. bit rate: 31 Mbps	SDI embedded:	1 group (4 audio channels)	AES/EBU:	2 stereo channels
DVB-S2/S (optional):	DVB-S: QPSK DVB-S2: QPSK, 8PSK, 16APSK, 32APSK LDPC FEC (DVB-S2): 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 FEC (DVB-S):1/2, 2/3, 3/4, 5/6, 7/8 Max. bit rate: 108.9 Mbps	Control & Monitorization			
*Automatic filter selection DVB-T2-S2		Control Interfaces:	Front panel and display Web server SNMP	Monitoring:	Decoder parameters Demodulation parameters Frequency and input level MER, BER, C/N Alarms, warning and logbook
Decoder		Video & Audio:	TFT Video screen 2" 2x Stereo loudspeakers Earphone output	Antenna Control	
H.264:	Profile: Baseline, Main, High, High 422 (supports 10 bits) Level: 4.1 - 4.2 Latency: 33 ms and Standard Delay Upgradable to 4K H.265	Parabolic:	Autotracking with positioner in 2 axis Remote Polarization Control	Multisector:	Autotracking with panel switching
MPEG-2:	Profile: 422P@HL, MP@HL, 422P@ML, MP@ML	Power supply			
Audio Decoder:	MPEG-1 Layer I/II	AC input:	90 to 240 V		
Genlock input:	Black burst or tri-level, Genlock loop	DC input:	20 to 36 V		
Decryption		Mechanical			
BISS:	BISS-1 and BISS-E	Control unit: (IDU)	Size: 1 RU, 240 mm depth Weight: 3 kg		
AES:	AES-128 and AES-256 (Optional)	RF head: (ODU)	Size: 186 x 80 x 3334mm Weight: 4,6 kg		
Data Channels		Max. distance:	400 m (triax cable 11 mm) Triax cable options up to 600 metres		
Data channel:	User data or GPS data	Temperature range:	-30 to 50 °C		
Data rate:	1.200 to 57.600 bps				

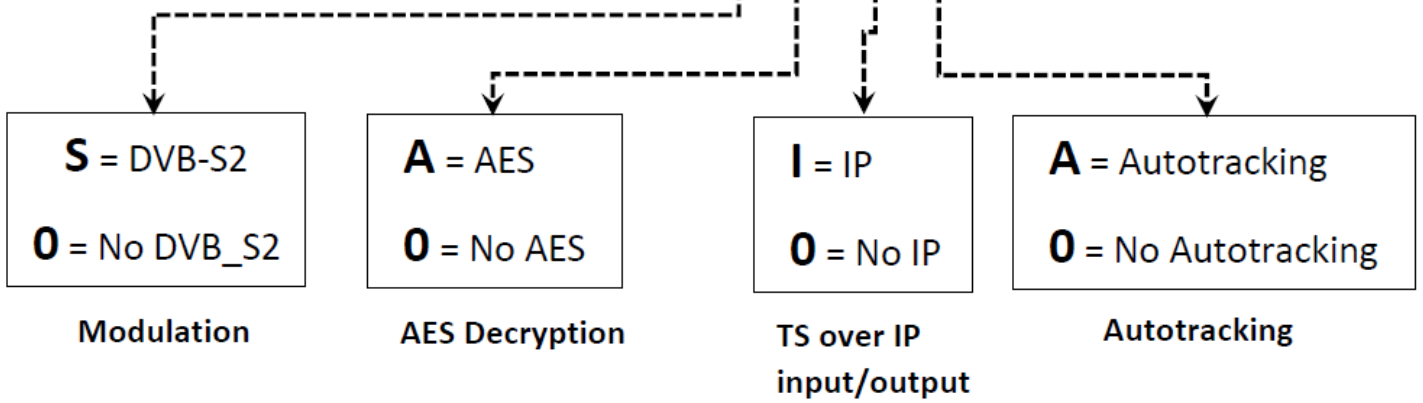
H.264 4:2:2

DVB-S2

NTT

How to order

H D R - 7 0 - **S A I A**



Design and specifications are subject to changes without prior notice 09/20