



# XVD™ Enterprise SD-RX150 SD Video and Audio Decoder

*High reliability, low power, small size...*

**Achieve economical, real-time,  
high-quality video over IP networks  
at low data rates**

The SD-RX150 is a real-time, economical SDTV decoder delivering high quality video and audio across IP-based networks. It provides full D1 resolution video over an IP link with low bandwidth requirement. Its complimentary encoder, the SD-TX150, can stream directly up to four SD-RX150 decoders using the easy-to-use “mini-server” mode, which provides a simple method to “broadcast” an audio/video stream to a small number of users. It can transmit to an even larger number of decoders using RTP Multicast. More complex and demanding applications may employ XVD Enterprise Streaming Server, which can accept encoded streams from a number of SD-TX150 encoders and re-direct the streams to larger number of XVD decoders.

Encoded audio/video data rates can range from 100kbps for applications with limited bandwidth (such as BGAN) up to 2.2Mbps where bandwidth is less constrained. Buffer latency can be adjusted on the SD-RX150 to compensate for less robust network connections.

For point-to-point streaming connections, encoded and compressed audio/video streams can either be initiated by the SD-RX150 using Stream Server Mode, or “pushed” to the SD-RX150 from an SD-TX150 using Directed Mode. This flexibility allow easy configuration to get around firewall/router restriction.

Configuration and control is via an easy-to-use, password-protected Web-based GUI. Using popular internet browsers, an approved user can log in and make configuration with ease.

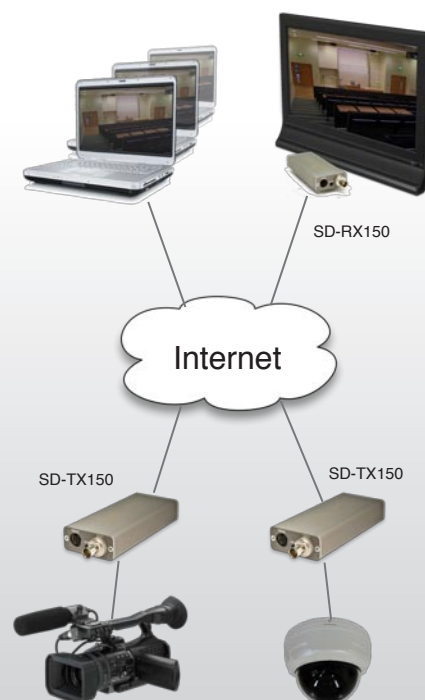


**Professional performance in  
the palm of your hand.**

## **XVD SD-RX150 Decoder At-A-Glance**

- Realtime SDTV decoding
- Analog NTSC and PAL output
- TCP/IP and RTP with FEC
- ProXVD™ IP FEC and Network Analysis tools
- All resolutions up to full D1
- Serial port over IP for camera control
- Easy configuration via web browser
- Low power consumption with PoE support
- Light weight (160g/5.5 oz)
- Small size (4.9" x 2.2" x 0.9")

### Application Overview



# XVD™ Professional SD-RX150 HD/SD Video and Audio Decoder



## SPECIFICATIONS

Input/Output				
Video Output	Composite Video (BNC 75 ohm)			
Video Decoding	XVD Video decoder with Adaptive Post-Filtering (up to 2.2Mbps)			
Video Formats	NTSC or PAL			
Audio Output	3.5mm stereo phone jack			
Audio Decoding	XVD audio decoder			
Audio Bit-Rate	16 Kbps - 64 Kbps (stereo)			
Network Interfaces	One 10/100BaseT Ethernet Port with Auto-MDIX (RJ45), PoE (802.3af) support			
Network Protocol	IPv4, TCP, RTP, Unicast and Multicast support			
Serial interface	8-pin MINIDIN RS-232 (VISCA compatible)			
Advanced Features	User-selectable decoder buffer size (100 ms-2000 ms) ProXVD™ FEC and Network Analysis Tool			
Power Input	12 VDC or Power-over-Ethernet (PoE)			
Power (AC adaptor)	100-240 VAC @ 50/60 Hz, auto-sensing, 12 VDC output			
Power Consumption	3 Watts (typical)			
User Interface				
Status Indicator	multi-color LED			
LAN Indicator	2 x LED, indicates activity and link status			
Web-based User Interface	Interface to a set of HTML pages for all control parameters, status and firmware update			
Reset Button	Recessed microswitch (restore factory default)			
Video Performance				
	Source Format	Encoding		Data-rate Range
		Resolution	Frame Rate	
Standard Definition (SD)	NTSC	720 x 480 (D1) 640 x 480 480 x 480 352 x 480 (1/2 D1) 352 x 240 (CIF) 320 x 240 (QVGA) 256 x 192 224 x 160 192 x 144 192 x 120 160 x 120 160 x 112	1 - 30 fps	100 Kbps – 2.2 Mbps
	PAL	720 x 576 (D1) 640 x 576 480 x 576 352 x 576 (1/2 D1) 352 x 288 (CIF) 320 x 240 (QVGA) 256 x 192 224x160 192 x 144 192 x 120 160 x 120 160 x 112	1 - 30 fps	100 Kbps – 2.2 Mbps
Environmental/Physical				
Operating Temperature	0°C to 50°C (32° to 122°F)			
Operating Humidity	0-90%, RHG non-condensing			
Storage Temperature	-20°C to 70°C (-4 to + 158°F)			
Weight (Installed)	160 g (5.5 oz)			
Dimensions (W x D x H)	54 x 124 x 23 mm (2.2 x 4.9 x 0.9 in)			
Warranty	1 year limited warranty			

XVD is the world's most advanced real-time video compression technology. Years of development and field testing supports the XVD codec design, providing much higher performance and efficiency than other block-based real-time video compression systems. XVD's patented video codec is optimized for the human visual system, and adds several unique features including: Automatic Scene Change Detection; Object Motion Estimation; plus CBR/VBR data rate control to improve video quality at dramatically lower data rates. The XVD audio codec also provides high performance at significantly lower data rates, allowing more audio channels to be carried in any chosen bandwidth.

### LOW LATENCY

*Enjoy both high performance and encode-decode system latency of only 150-200 milliseconds.*

### BANDWIDTH EFFICIENT

*Provides a competitive alternative to VC1 and AVC at a more affordable price*

### NO ROYALTIES

*Unlike other compression standards, users of XVD products never pay a royalty of any kind.*

### For Information Contact

XVD Corporation

Tel: +1 888-680-6808

Fax: +1 650-204-6180

info@xvdcorp.com

www.xvdcorp.com

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Simply Better