



# XVD™ Professional HD-RX2500 HD/SD Video and Audio Decoder

*Low-latency with higher performance  
than you've experienced...*

**Achieve robust and reliable HD-SDI  
1080i 4:2:2 real-time low-latency  
feeds over traditional standard  
definition video microwave/  
satellite links or inexpensive  
IP networks**



The HD-RX2500 Decoder, operating in conjunction with the HD-TX2500 Encoder, delivers professional High Definition video and multiple audio channels over DVB-ASI or IP networks at Standard Definition bandwidth (5 Mbps or more). It supports 4:2:2 and 4:2:0 color space formats, and includes state-of-the-art forward error correction technology and a real-time network analysis tool for reliable transmission over the Internet. This low-latency decoder outputs professional video on HD/SD SDI with Genlock capability. Features include low power consumption, light weight, with both front panel and Web-user interface for easy setup and configuration.

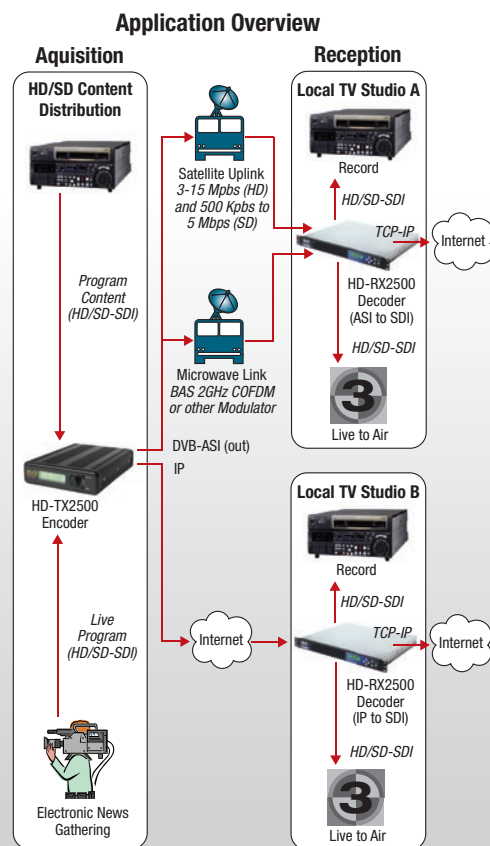
The XVD codec system is comprised of the HD-TX2500 Encoder and HD-RX2500 Decoder. This high-performance system enables a substantial increase in bandwidth utilization of satellite, microwave and IP links.

In addition, the HD-RX2500 is recommended for use with the new second-generation NewsHound II<sup>SM</sup> backpack DENG encoder and RF transmitter.

**Now you can achieve both high  
performance and encode-decode  
system latency of only 200-300  
milliseconds (typically a quarter  
of a second or less).**

## XVD HD-RX2500 Decoder At-A-Glance

- Realtime HDTV/SDTV decoding
- DVB-ASI, RTP/IP and TCP/IP input
- Dual HD or SD-SDI output
- ProXVD™ IP FEC and Network Analysis tools
- Digital Turnaround capability
- Multi-patented codec
- Easy to use front panel and web user interfaces
- Low power consumption
- Light weight



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## SPECIFICATIONS

Input/Output	
<b>Video Output</b>	2x SD/HD-SDI (BNC 75 ohm, SMPTE 292M, SMPTE 259M-C compliant)
<b>Video Decoding</b>	XVD Video decoder with Adaptive Post-Filtering <b>XVD-SD:</b> up to 5 Mbps <b>XVD-HD:</b> up to 15 Mbps
<b>Video Formats</b>	1080i @ 50, 59.94, 60 1080p @ 24 720p @ 30, 50, 59.94, 60 625i @ 50 525i @ 60
<b>Video Reference In</b>	Genlock (BNC 75 ohm)
<b>Chroma Format</b>	Support 4:2:0 and 4:2:2 chroma format for all resolutions
<b>Audio Output</b>	SDI embedded audio (up to 8 channels) 4x AES/EBU unbalanced digital audio (BNC 75 ohm) (8 channels total) 2x balanced analog audio (XLR)
<b>Audio Decoding</b>	XVD audio decoder High-performance 32-128 kbps per stereo pair up to 4 stereo channel pairs (8 channels total)
<b>Network Interfaces</b>	DVB-ASI (BNC 75 ohm, EN50083-9 compliant) 10/100BaseT (RJ45 x 2), supports XVD-HD/SD stream over TCP/IP, RTP, RTP Multicast
<b>Advanced Features</b>	User-selectable decoder buffer size (100 ms-2000 ms) ProXVD™ One- or Two-Dimensional IP FEC and Network Analysis
<b>Digital Turnaround</b>	Integrated stream forwarding to another XVD Decoder or Server Configurable IP address/Port TCP->TCP, RTP->TCP
User Interface	
<b>System Management</b>	Firmware update via Web GUI from any network-connected PC
<b>Power</b>	Control button (toggle)
<b>Power Indicator</b>	1 x LED
<b>LAN Indicator</b>	2 x LED, indicates activity of two LAN ports
<b>Front Panel Interface</b>	2-line/16-character LCD w/ backlight; Select, Menu and 4-way Cursor control buttons
<b>Web-based User Interface</b>	HTML and JavaScript-based; multi-tabbed (compatible with popular browsers)
Environmental/Physical	
<b>Operating Temperature</b>	0°C to 50°C (32° to 122°F)
<b>Operating Humidity</b>	10-90%, RHG non-condensing
<b>Storage Temperature</b>	-20°C to 70°C (-4 to + 158°F)
<b>Weight (Installed)</b>	4.3 Kg (9.5 lb)
<b>Dimensions (W x D x H)</b>	483 x 357 x 44 mm (19 x 14 x 1.75 in) 1U rack mount enclosure
<b>Warranty</b>	1 year limited warranty-Includes up to two firmware updates
<b>AC Power Input</b>	90-240 VAC 50/60 Hz
<b>Power Consumption</b>	35W Max (with Active Power Factor Correction)

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 200-300 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

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Simply Better