

XVD CamCast Professional HD-RX2000 HD/SD Video and Audio Decoder

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



Achieve high-quality performance at all data rates, including low data rate applications, even over poor-quality Internet channels.

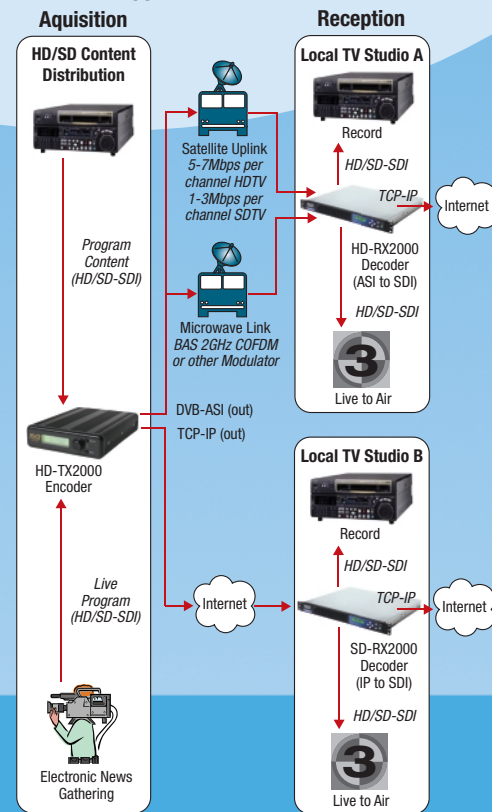
Now you can achieve both high performance and encode-decode system latency of only 200-300 milliseconds (typically a quarter of a second or less).

The HD-RX2000 decodes and plays back an XVD-HD or SD data stream from DVB-ASI or one of two Ethernet ports from a LAN or IP broadband network. The XVD input stream is decoded into HD or SD-SDI format according to the original resolution and frame rate. Special features of the HD-RX2000 include: ProXVD™ IP Forward Error Correction and Network Analysis; Adaptive Post-Filtering (for best possible video quality at all data rates); selectable network buffer size (for delivery over poor-quality Internet channels); and GENLOCK. Other features include DVB-ASI, RTP/IP and TCP/IP input; HD or SD-SDI output; digital turnaround; multi-patented Codec; front-panel and web-user interfaces; low power consumption and light weight.

The XVD codec system is comprised of the HD-TX2000 Encoder and HD-RX2000 Decoder. This high-performance system enables a substantial increase in bandwidth utilization of satellite, microwave and IP links.

In addition, the CamCast Professional HD-RX2000 is recommended for use with the new second-generation NewsHound IISM backpack DENG encoder and RF transmitter.

Application Overview



XVD HD-RX2000 Decoder At-A-Glance

- Real-time HD/SD decoding
- DVB-ASI, RTP/IP and TCP/IP input
- HD or SD-SDI output (2)
- ProXVD™ IP FEC and Network Analysis
- Digital Turnaround capability
- Multi-patented codec
- Front panel and web user interfaces
- Low power consumption
- Light weight

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SPECIFICATIONS

INPUT/OUTPUT	
Video Output	2x SD/HD-SDI (BNC 75 ohm, SMPTE 292M, SMPTE 259M-C compliant)
Video Decoding	XVD Video decoder with Adaptive Post-Filtering XVD-SD: up to 5 Mbps XVD-HD: up to 10 Mbps
Video Formats	1080i / 50, 59.94, 60 720p / 59.94, 60 525i / 60 625i / 50
Video Reference IN	Genlock (BNC 75 ohm)
Audio Output	SDI embedded audio (up to 8 channels) 4x AES/EBU unbalanced digital audio (BNC 75 ohm) (8 channels total) 2x balanced analog audio (XLR)
Audio Decoding	XVD audio decoder High-performance 32-128 kbps per stereo pair up to 4 stereo channel pairs (8 channels total)
Network Interfaces	DVB-ASI (BNC 75 ohm, SMPTE 259M-C compliant) 10/100BaseT (RJ45 x 2), supports XVD-HD/SD stream over TCP/IP, RTP, RTP Multicast
Advanced Features	User-selectable decoder buffer size (100 ms-2000 ms) ProXVD™ One- or Two-Dimensional IP FEC and Network Analysis
Digital Turnaround	Integrated stream forwarding to another XVD Decoder or Server Configurable IP address/Port TCP->TCP, RTP->TCP

USER INTERFACE	
System Management	Firmware update via Web GUI from any network-connected PC
Power	Control button (toggle)
Power Indicator	1 x LED
LAN Indicator	2 x LED, indicates activity of two LAN ports
Front Panel Interface	2-line/16-character LCD w/ backlight; <i>Select</i> , <i>Menu</i> and 4-way <i>Cursor</i> control buttons
Web-based User Interface	HTML and JavaScript-based; multi-tabbed (compatible with popular browsers)

ENVIRONMENTAL/PHYSICAL	
Operating Temperature	0°C to 50°C (32° to 122°F)
Operating Humidity	10-90%, RHG non-condensing
Storage Temperature	-20°C to 70°C (-4 to + 158°F)
Weight (Installed)	4.0 Kg (9 lb)
Dimensions (W x D x H)	483 x 357 x 44 mm (19 x 14 x 1.75 in) 1U rack mount enclosure
Warranty	1 year limited warranty-Includes up to two firmware updates
AC Power Input	90-240 VAC 50/60 Hz
Power Consumption	30W Max (with Active Power Factor Correction)

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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 Changing Detection; Object Motion Detection Estimation; plus CBR/VBR bit rate control with configurable window size to improve video quality at dramatically lower data rates. The XVD audio codec also provides high performance at significantly lower data rates, allowing many 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.

NO ROYALTIES

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



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**Already a generation ahead for HD/SD
Television and Internet broadcasting**