

Desktop Form Factor—Ultra HD Encoder/Decoder

IPVS V₂D XP 220 Ultra HD Encoder/Decoder

IP Video Systems' V_2D XP 220 with integrated multi channel, dual link DVI functionality of Ultra HD encoding (Tx) and decoding (Rx) in a single unit, delivers real-time streaming of 4 megapixel resolution graphics and video at high frame rates over IP networks.



V2D XP 220 Ultra HD Encoder/Decoder

The V_2D XP 220 product incorporates state-of-the-art encoding and decoding technologies optimized for netcentric simulation and high-end visualization applications, integrating video, audio and control data on a robust and easy-to-use platform.

The V_2D XP 220 Desktop Form Factor design offers a smaller footprint and quiet fan design allow the XP-220 to be integrated in TeleCollaboration^(TM) environments like conference areas and meeting rooms where low noise levels are desired.

The V_2D XP 220 integrates 2 dual-link DVI channels allowing configuration of Tx's and Rx's in any combination: 1 Tx and 1 Rx, 2 Tx's, or 2 Rx's in a single desktop unit. The software controlled configuration offers convenience and flexibility of a multi channel or bi-directional high resolution video, graphics and audio extender, allowing configured locations to view and control the graphics and video in real time. Multiple remote locations can simultaneously view and control the source application using only a display, keyboard, and mouse.

The XP-220 can be connected to Ethernet local area, campus and metro networks as well as wide area IP networks, supporting networked simulation, distributed visualization and remote TeleCollaboration (TM) over any distance. Applications include networked simulation, graphics application sharing and remote surgical intervention. The V₂D XP220 promotes unparalleled video streaming and collaboration capabilities, with real-time video and graphics, audio and remote keyboard/mouse control creating a completely interactive experience among users on a global basis.

Product Features

- Desktop form factor
 - Small Foot Print and Quiet Fan Design
- Integrated Tx and Rx function in a Compact Desktop chasis
 - -1 Tx plus 1 Rx or, 2 Tx's or 2 Rx's in one unit
- Ultra HD Performance with 4-megapixel high resolution graphics modes
 - 2560 x 1600 and beyond
- Higher frame rates on 2 megapixel modes:
 - 1280 x 1024 @72Hz,
 - 1600 x 1200 @ 48Hz
 - 1920 x 1080 @48Hz
- 3D stereoscopic graphics support
- Transmission over any Ethernet network
 - IP LAN and WAN configuration
- Unicast/multicast support
- Extensive Quality of Service (QoS) support
 - Rate limitation and control
- Network congestion avoidance mechanisms
 - Resilient against packet loss
- Complete remote interactivity
 - Keyboard/mouse, USB and RS232 support
- Integrated point-to-point stereo audio
- True plug-and-play design
 - Host hardware and software independent

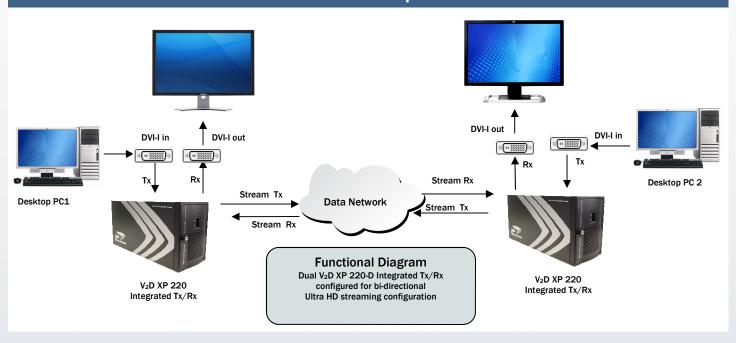
Applications

- Projection system independent
- Resolution/refresh rate independent
- Global visual collaboration
- Networked simulation
- Broadcast/multicast graphics and video
- TeleCollaboration^(™)
- Surveillance and reconnaissance
- Interventional Surgery
- Digital Cinema

Benefits

- Apple Cinema 30" LCD Display support
- Desktop visualization for distant learning
- Visual decision making on global basis
- Digital compression and transmission:
 - No distance-dependent degradation
- Flexible architecture, Point-to-point
 Point-to-multipoint (IP multicast)
- Complete recording, relay, streaming and media distribution solution when configured with IP Video Systems' Digital Media Servers
- Synchronized recording/ viewing on multiple

V₂D XP 220 Technical Specifications



Inputs and Outputs		Network Conn	Network Connectivity	
Video		Ethernet Protoco		
Video resolution‡	2560 x 1600, 1920 x 1200, 1920 x 1080, 1800 x 1440,	Traffic type	Variable bit-rate with configurable maximum and burst rate settings.	
	1600 x 1200, 1280 x 720, 1280 x 1024, 1024 x 768,	Frame Rate	Configurable fixed frame rate settings	
	800 x 600, 640 x 480	IP Protocols		
‡ Firmware supporting video resolution above 4 mega-pixel available Q4'08		Protocol	IP Parameters manual or automatic	
Horizontal frequency Up to 110 kHz			configuration via DHCP. Multicast via	
Maximum Clock rate			IGMP with multicast routers	
Input/output signal	TMDS (DVI-I), RGBHV	QoS	Mechanism coping with packet loss and	
Connector type	2 Dual-link DVI-I (Rx and Tx) Local Monitor Loopback		network latency/jitter. Configurable	
Compression	Advanced visualization with intelligent	Managamant	update rate optimization	
Compression	frame differencing ad configurable,	Management	D0000 1 1 1 001 TETD 0ETD 0011	
	progressive spatial compression	Interfaces	RS232, telnet, SSL, TFTP, SFTP, SSH	
		Commands	IMS web-based management and menu-based system	
Audio		Configuration data	Stored on removable Compact Flash	
Line in/out	2 channel (3.5 mm stereo jack)	ooga.aao aaa	card	
Cordal Book		Certification and Compliances		
Serial Port		UL and FCC (preliminary) UL60950/FCC Part 15 Class A		
Connector type	1 full duplex RS-232 compliant	General	•,	
Keyboard and Mouse		Power	100 VAC to 240 VAC, 50/60Hz	
Output on Tx	2 PS/2, 2 USB connectors		· ,	
Input on Rx	2 PS/2, 2 USB connectors	Power Dissipation	100 Watt - dual channel configuration	
		•	1/2 width rack-mountable	
Network Interface		Dimensions (H x W x	Dimensions (H x W x D) 6.3" x 9.0" x 17.65"	
Interface type	10/100/1000BaseT		(160 mm x 219 mm x 448 mm)	
Connector type	RJ45	Weight	TBD	



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