ZyPerUHD

Compressed 4K AV Over IP on 1Gb Networks

The ZyPerUHD platform allows for the easy distribution and switching of ultra high definition compressed video, audio, and other data signals using ZyPerUHD encoder and decoder modules and off-the-shelf 1Gb Ethernet switches.

Send compressed video up to 4K, audio, and control over ethernet

ZyPerUHD delivers stunning pixel for pixel reproduction of compressed 720p and 1080p HD resolution content directly over a standard 1Gb ethernet network. ZyPerUHD eliminates the need to have a separate AV network or equipment for video and other AV content.

Change sources and content instantly without programming ZyPerUHD

IP based architecture enables you to quickly switch from one source to another with minimal loss of frames - even at 1080p resolutions

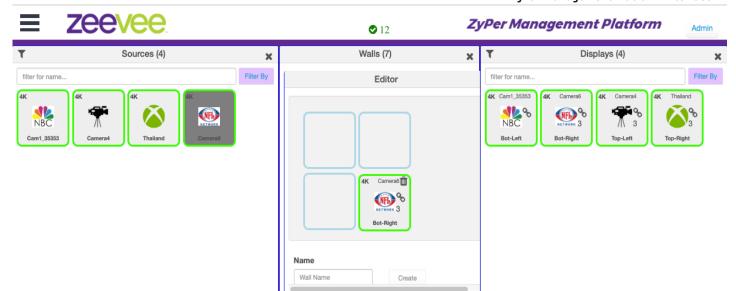### Create and manage video walls up to 81 screens

ZyPerUHD can be used on multiple screens to create a video wall up to 81 screens in a 9x9 configuration. The unit automatically scales and adjusts HD source content to create a compelling wall without any extra hardware or software. You can even mix scaled images with stand-alone screens..

Highlights:

- JPEG 2000 compressed 4K video, audio, and control using off-the-shelf 1Gb Ethernet switches. Support for both analogue and digital audio
- ZyPerMP (Management Platform) with software GUI allows simple set up and control of ZyPerUHD. ZyPerMP also has an open API allowing control via 3rd party systems
- Power over Ethernet support (PoE)
- Ultra low latency (less than 2 frames)
- Supports HDR
- Video Wall support up to 9x9
- Source and display control (RS232, IR, USB)
- HDCP 2.2 compliant
- Wallplate Encoder option
- ZyPerUHD can also be used in a point-to-point configuration to encode a 4K video source across a dedicated copper connection to a display up to 100m away

ZyPer Management Platform Interface

ZyPerUHD Encoder	Information	Connector
Video	HDMI 2.0a with HDCP pass-through.	HDMI type A (Wallplate: HDMI and VGA 15-pin D-sub)
Video Loopout	HDMI	HMDI type A (Wallplate: NA)
Audio (Analogue)	Balanced Stereo (Input & Output)	Phoenix (Wallplate: 3.5mm jack, unbalanced input only)
IR	Input/Output ports	3.5mm mini jacks (Wallplate: built in sensor)
Serial	Full Duplex up to 115.2 kbps	Phoenix (Wallplate: 3.5mm jack)
USB	Single USB 2.0	USB Type B
Ethernet (PoE)	1 Gb for Video/Audio/Control	1 Gb RJ45 port

ZyPerUHD Decoder	Information	Connector
Video	HDMI 2.0a with HDCP pass-through	HDMI type A
Audio (Digital)	Multi-channel linear PCM up to 8 channels, Dolby Digital, AC3	HDMI type A
Audio (Analogue)	Balanced Stereo (Output)	Phoenix
IR	Input/Output ports	3.5mm mini jacks
Serial	Full Duplex up to 115.2 kbps	Phoenix
USB	Dual USB 2.0	2 USB Type A
Ethernet (PoE)	1 Gb for Video/Audio/Control	1 Gb RJ45 port

Other Specifications	ZyPerUHD Encoder	ZyPerUHD Decoder
Formats	Supports all major VESA resolutions and variations including: • VGA: 640x480 (4:3) • SXGA: 1280x1024 (5:4) • 1080p/i: 1920x1080 (16:9) • SVGA: 800x600 (4:3) • WXGA: 1366x768 (16:9) • QXGA: 2048x1536 (4:3) • XGA: 1024x768 (4:3) • SXGA+: 1440x1080 (4:3) • Ultra HD: 3840x2160 (16:9) • HDTV: 1280x720 (16:9) • UXGA: 1600x1200 (4:3)	
Video Other	Color Depth: 24 bit, 30 bit	
Signal transmission distance	Cat6a: 328 ft (100 m)	
Copy Protection/Security	HDCP 2.2, 802.1X compatible	
Power input (locking connector	12 VDC 1A	
Power consumption	Approximately 6W	
Dimensions	200mm x 120mm x 25mm (LxWxH) Wallplate: 2-Gang Standard box	
Temperature	Operating Temperature +32°F ~ +113°F (0°C ~ +45°C) Storage Temperature -4°F ~ +158°F (-20°C ~ +70°C)	

ZyPerUHD Encoder
ZyPerUHD-E

ZyPerUHD Encoder Wallplate
ZyPerUHD-WE

ZyPerUHD Decoder
ZyPerUHD-D

ZeeVee, Inc.,headquartered in Littleton, Mass., and founded in 2007, is a leading global developer of digital technology and products for distributing audio-video content from any source or multiple sources to any number of displays. Manufactured in the U.S. and used primarily in commercial and corporate applications, ZeeVee products are employed worldwide by major organizations in education, government, hospitality, retail, sports, entertainment, broadcasting, healthcare, housing, energy and other industries. For more information visit **www.zeevee.com**

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