



HT-VERSA-4K

4K HDMI & USB over LAN



DESCRIPTION

HT-VERSA-4K is a complete AV over IP solution, which can extend 4K video with one frame latency, USB 2.0, keyboard, mouse, IR, RS-232, and analog audio over a simple Gigabit Ethernet Network. Advanced features include video wall processing to expand and split 4K video onto multiple displays, video rotation and flipping (horizontal and vertical), USB device class filtering for excluding specific USB device types such as USB flash drives, automatic KVM switching, Dynamic Virtual Matrix (DVM) operation, PoE (Power over Ethernet) support, and more.

4K Video & USB over IP in a 1-to-1 setup (one sender to one receiver) does not require external network equipment. Simply connect a Cat6 cable up to 120 meters (400 ft) between the two ends. In a many-to-many setup, a dedicated gigabit Ethernet switch (with IGMP and Jumbo-frame support) is required.

The encoder in the sender (HT-VERSA-4K-S) uses visually lossless compression, which gives pixel perfect quality at the remote end. It can accept HDMI resolutions up to 4K@30Hz, 4:4:4 with HDCP 2.2. It includes a video loop output together with extracted HDMI audio in analog format for maximum flexibility and integration.

The receiver (HT-VERSA-4K-R) has a built-in scaler that not only supports a video wall up to 16x16, but can also change the orientation of the image. The receiver also includes extracted HDMI analog audio. Two USB ports are dedicated for use with keyboard and mouse (auto-switching based on user activity) and two general purpose USB 2.0 ports that support touch screens and memory devices, along with many other USB device functions.

FEATURES

- Extend and switch multiple 4K HDMI video and USB on a simple gigabit LAN
- Can be used directly (without LAN) for point-to-point HDMI/DVI video, USB 2.0, Audio, IR, and RS232 extension on Cat6 cable
- Low latency video and audio (<30ms)
- Video rotation and flipping (horizontal and vertical)
- User configurable video-wall processor
- Extends signals up to 120m (400ft)
- HDMI video loop output on the sender
- Extracted HDMI audio in stereo analog format on both sender and receiver
- 4 USB ports on the Receiver, 2 for keyboard and mouse plus 2 general purpose USB 2.0 ports
- PoE powered
- USB Device Class Filtering
- CEC, IR, and RS-232 Serial over IP for control
- Automatic KVM switching (when more than one receiver is routed to one source)
- Telnet and integrated Web UI control
- Front panel character LCD for configuration of IP parameters and status indication
- Receivers include small IR remote controller for switching channels
- Senders accept max resolution of 4K@30Hz 4:4:4 on its input and loop output
- Receivers output a max resolution of 4K@30Hz 4:4:4
- HDCP2.2 and 1.4 compliant

System	
Supports	Device Naming, IP Control, Built-in Web Server with Intuitive User Interface; Front panel with 16x2 Character display for System configuration IR Remote Control
Sender	Supports Independent routing
Receiver	Built-in OSD generator, which can display custom text and pictures; Built in Scaler with can support: • Low resolution <=> High Resolution timing conversion • Interlaced <=> Progressive Mode conversion
Video Wall Support	Wall Size up to 16x16; Bezel and Gap Compensation; Pixel Wise Panning, Image Rotation , Mirroring, and Stretch Video Pause and Black Out
Network	
Max Distance	120m UTP
Bandwidth	850Mbps +- 20Mbps *Varies with video pattern, USB activity, and WEB-GUI activity
Casting	Multicast (Groups 0 ~9999), Unicast Supports VLAN Switching
Supports	Bit rate and bandwidth Control; Static, DHCP and Auto IP (Zero Config) IGMPV2 1500 or 8000 MTU *Recommended 8K (8000MTU) for 4K video
Video	
Sender Input	Up to 4K@60 4:2:0, HDMI 2.0a, HDR, HDCP2.2
Sender Loop Out	Up to 4K@60 4:2:0, HDMI 2.0a, HDR, HDCP2.2
Receiver Output	Up to 4K@30 4:4:4, HDMI 2.0a, HDR, HDCP2.2
Video Over IP	
Video Codec	Mini Proprietary Visually Lossless Video Codec Supports Quality Control
Latency	1 Frame (< 30ms)
Supports	Video Snapshot; Anti-Dithering V3, Frame Rate Control
Audio	
HDMI Audio	2Ch, 5.1Ch, 7.1Ch LPCM 5.1Ch, 7.1Ch NLPCM
Supports	HDMI Audio Extraction (2Ch LPCM 32Khz ~96Khz)
Audio over IP	
Sender Analog Audio	Line In, Line Out for Audio Over IP Supports HDMI Audio Embedding
Receiver Analog Audio	Mic In, Line Out for Audio Over IP Supports HDMI Audio De-Embedding
Sender Analog Audio	Analog Volume Control. Bidirectional Audio extension in Unicast mode
IR Over IP	
IR	Universal IR
Supports	Bidirectional IR Pass-through Mode; Guest Mode (Software Decoding over dedicated Telnet port)
USB Over IP	
USB Extension	Up to 4xUSB 2.0 Downstream Devices USB 1.1 for Keyboard and Mouse Extension
Supports	USB Class and Device Filtering Touch Screen Device



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