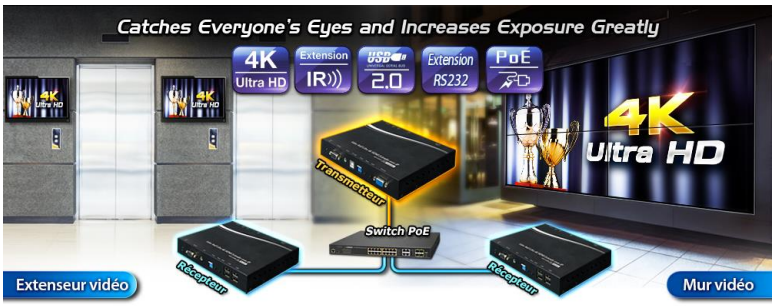
Video Wall Ultra 4K HDMI/USB Extender over IP with PoE

Ultra High-quality 4K HDMI Video Wall

This HDMI/Video Wall over IP with PoE delivers a great 4K video distribution solution such as bringing an efficient and effective advertising deployment. This series is the combination of the transmitter, and the receiver. They can be used as an audio, video and IR extender over IP and applied to point-to-point, point to multi-point, multi-point to multi-point and eye-catching video walls of up to 16 by 8 displays.



IR Extension for Controlling Video Source

This series is a perfect solution for audio and video signal extension via the Gigabit LAN. Designed with IR transmitter and receiver interface, it allows users to control the video source at the terminal destination. This series features bi- directional IR extension and RS232 pass-through which allows the user to cascade the system enabling them to extend the transmission distance without signal loss or delay. It also supports VGA Local Output function for checking video source conveniently.

They come with USB interfaces, which support basic KVM applications, such as touch screens, keyboards and mice, enabling users to achieve KVM PC control easily. Besides, with PoE function, there is no additional power supply needed, and this series thus reduces the complexity of cable installation.

HDMI Network

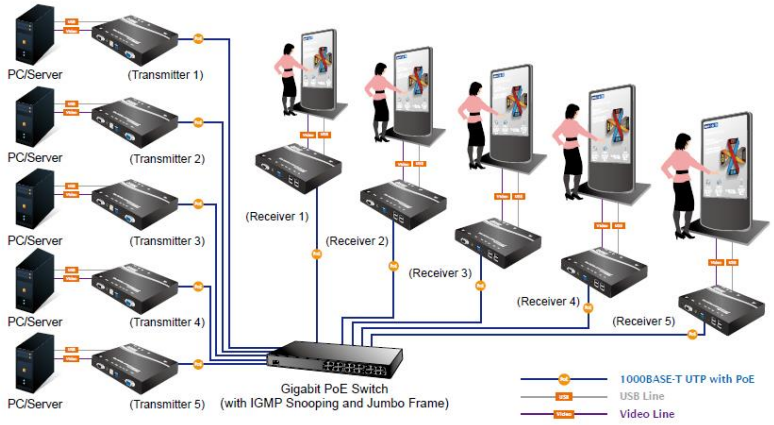
- 4K ultra high-quality video transmitter
- Supports IR extension for controlling video source
- Supports RS232 bi-directional remote extension
- Assigns video sources to any monitor of the video wall system
- The selectable 16-channel DIP switch is easily applied for multi-casting group matching
- 1-to-1,1-to-many and multi-casting broadcasting architectures allow to add more displays without increasing LAN bandwidth loading

Video Output Characteristics

- Supports 1080p or 4K (3840 x 2160) HDMI resolution
- HDCP compliant and blu-ray ready
- Supports VGA local output
- Compatible with common screen resolutions from XGA, SXGA, UXGA, WSXGA and Full HD to the latest 4K system
- Output video rotation
- Supports HDMI with 2-ch. uncompressed audio or external audio in and out

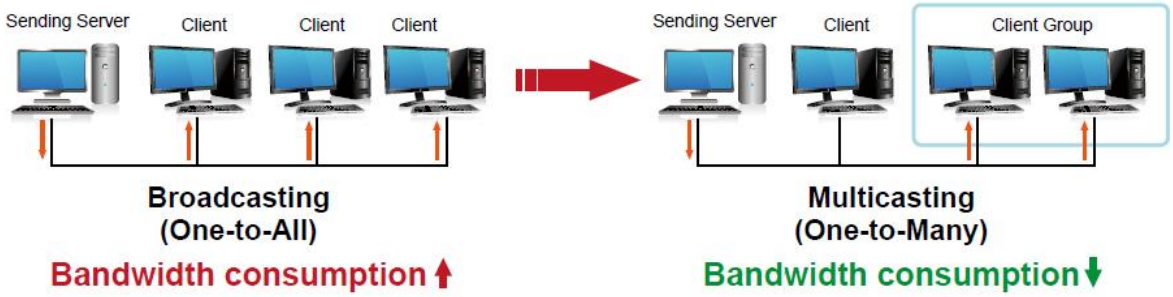
Easy Installation and Management

- Supports USB for KVM PC control
- IEEE 802.3af/at PoE+ function supported; no additional power supply needed
- Automatic EDID (Extended Display Identification Data) configuration
- Friendly Web UI for ease of use
- Supports multi-casting group with Gigabit Ethernet Managed Switch (IGMP snooping and Jumbo Frame functions required)



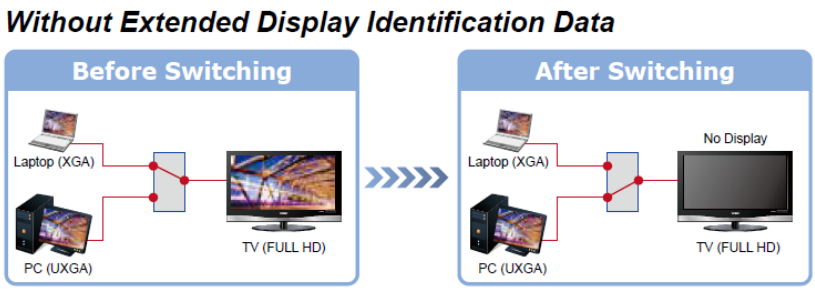
Exclusive Video Transmission by IGMP Snooping Technology

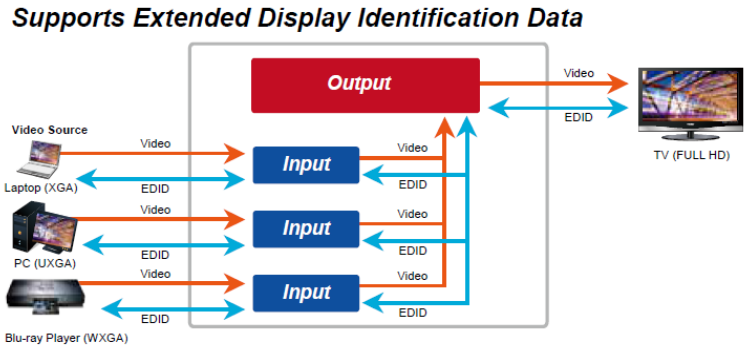
One transmitter in local site can drive multiple receivers in remote sites without consuming extra network loading. Integrated with Gigabit PoE switch built-in with IGMP snooping functions, there are 16 channels selectable via this series, so video and audio can be transmitted simultaneously. IGMP snooping is an integral part of IP multicast and a communications protocol used by hosts and adjacent routers on IP networks to establish multicast group memberships. IGMP snooping can be used for one-to-many/many-to-many networking applications such as online streaming video and gaming, and allows exclusive transmission and more efficient use of resources.



Extended Display Identification Data (EDID) Support

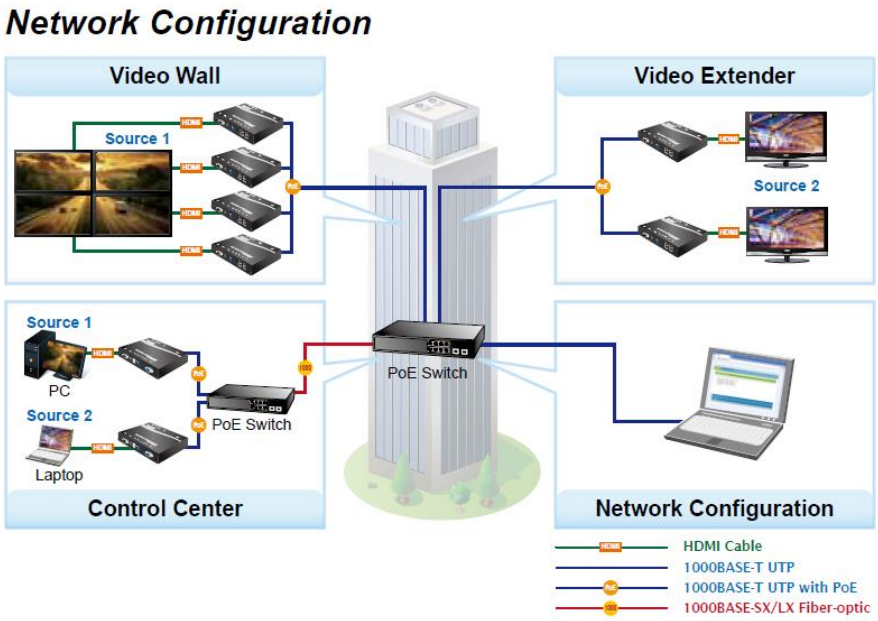
This series adopts Automatic EDID (Extended Display Identification Data) Copy function to make smooth video distribution over different types of display units. EDID is greatly important as it contains information about resources' manufacturer names, serial numbers, product types, maximum image sizes, color characteristics, factory pre-set timings, frequency range limits, etc. In some cases, display problems may occur due to incorrect EDID communication between the display monitor and the transmitting unit or inappropriate EDID data programmed by display manufacturers. Therefore, with Automatic EDID Copy function, this series allows the system to copy EDID information from EDID compliant displays and assures accurate display performance.





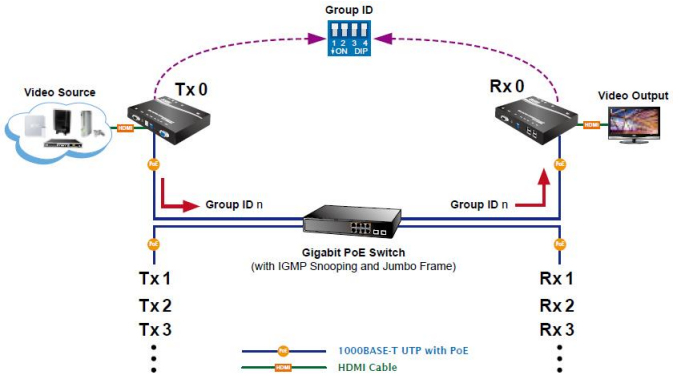
Video Channel Setting Matches Well through Network Configuration

This series network can be configured by a central computer over the same LAN within a certain distance. Fully leveraging the Gigabit Ethernet switches with 802.1Q VLAN function, multi-casting can be performed to allow more video sources/senders in the network and be remotely managed. Just adjust and match video channel setting with the simple DIP switch in both the transmitter and receiver. The video distribution is easily deployed through Plug and Play.



Efficient Control via Selectable 16-Channel IP Switch

Where there is more than one transmitter in the video extend system, the DIP switch in the transmitter and receiver facilitates distinguishing the pair of the transmitter and receiver units in the same channel. It further enables the broadcasting system to perform multiple video extend systems simultaneously through matching of the transmitter and receiver.

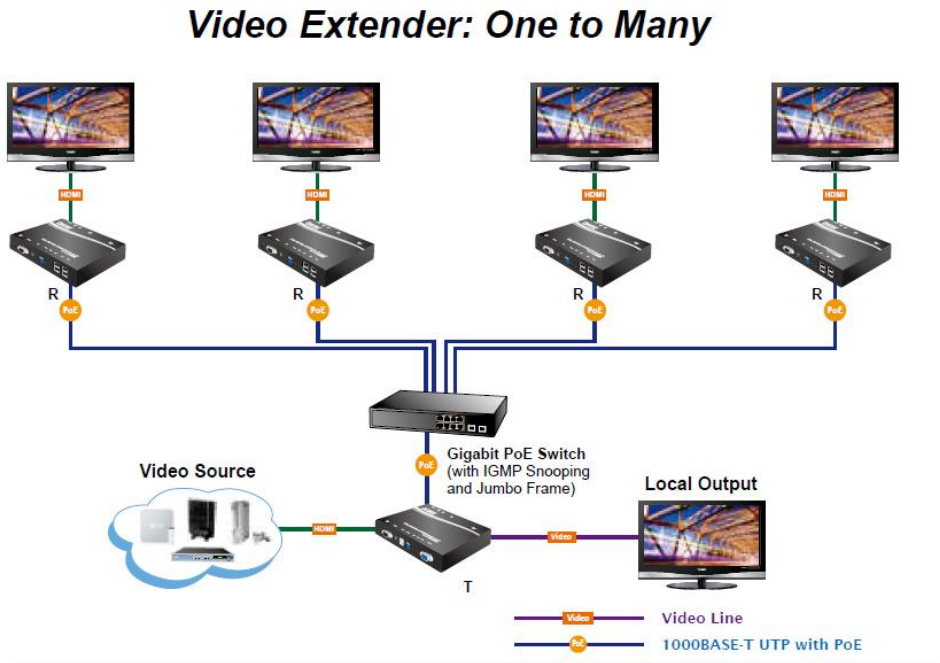


Applications

The transmitter and receiver work as a pair to facilitate the management tool and HDMI display over IP Ethernet with PoE.

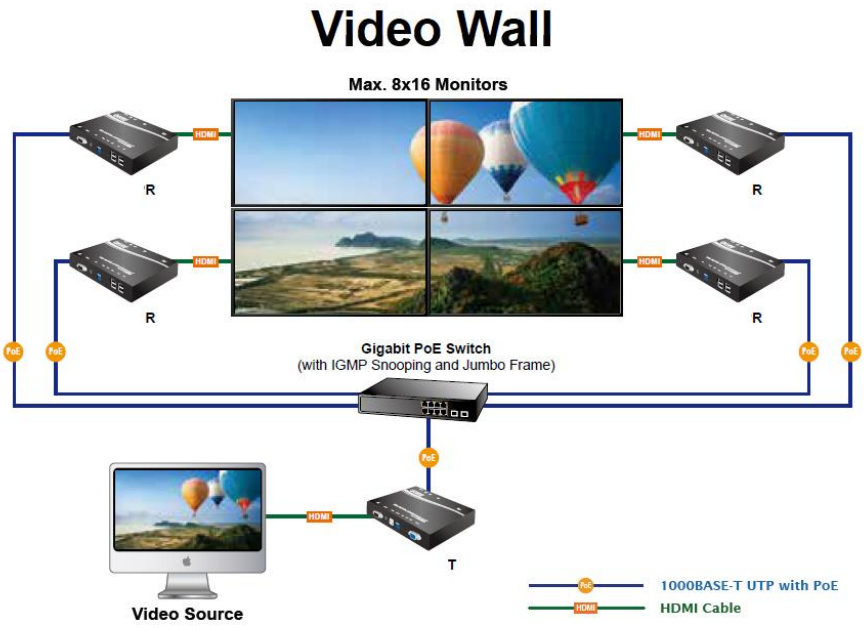
Video Extender

The transmitter and receiver are able to send the same video signal to multi-monitors in different locations at the same time. It helps to quickly extend the image and commercial to the public efficiently in such places as expos, food courts, boardrooms, and any public areas



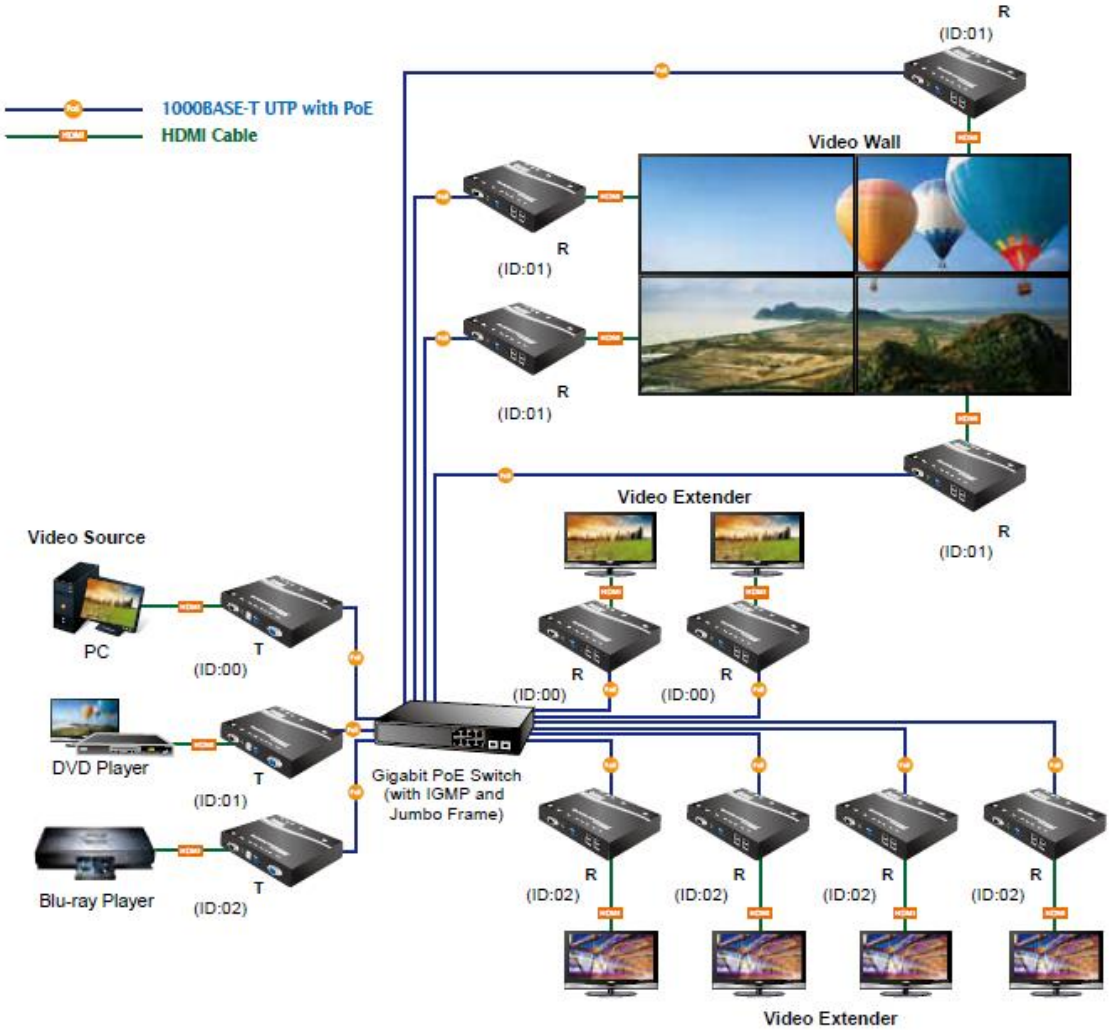
Video Wall

To bring the image and picture in larger size over video wall, the transmitter and receiver are the ideal solution to distributing one specified image, picture, or video to multiple screens which are usually applicable for sports, department stores, movie theaters, etc.



Ideal Solution for Wide Variety of Commercial Installation Environments

This series support 100m over single cat5e/6 cable at point to point, as well as point to many and many to many over Gigabit Ethernet switch. With so many practical features, this series is ideal for live presentations, public broadcasting, education training, boardrooms, etc.



Specifications

Model	Transmitter	Receiver
Hardware Specifications		
Network Interface	RJ45 port (10/100/1000BASE-T Ethernet) x 1	
Serial Interface	DB-9 female connector for RS232 x 1RS232	
LED	ACT LED x 1 Link LED x 1	
Buttons	Reset button x 1 G/V mode button x 1	
Video In Interface	HDMI A Type female connector x 1	N/A
Video Out Interface	VGA DB-15 female connector x 1	HDMI A Type female connector x 1
External Audio In Interface	3.5mm jack x 1	
External Audio Out Interface	3.5mm jack x 1	
IR	3.5mm jack for IR emitter cable	3.5mm jack for IR receiver cable
Channel Switching	DIP (16 channels)	
USB	USB 2.0 type B x 1 (For PC/server)	USB 2.0 type A x 4 (For
Power Supply	IEEE 802.3af/at PoE+ 12V DC, 2A	
Power Consumption	3W (Min.) 14W (Max.)	
Dimensions (W x D x H)	194 x 114 x 28 mm	
Weight	620 g	
Video and Audio		
Maximum Video Wall	8 x 16 (row x column)	
HDMI Video In Resolution	4K (3840x2160) @ 30/24 Hz 1080p @ 60/50 Hz 1080p @ 30/25 Hz 1080i @ 60/50 Hz 720p @ 60/50 Hz 480p @ 60/50 Hz 480i @ 60/50 Hz	N/A
HDMI Video Out Resolution	N/A	4K (3840x2160) @ 30/24 Hz 1080p @ 30/25 Hz 1080i @ 60/50 Hz 720p @ 60/50 Hz 480p @ 60/50 Hz 480i @ 60/50 Hz
VGA Video Out Resolution	1080p @ 30/25 Hz 1080i @ 60/50 Hz 720p @ 60/50 Hz 480p @ 60/50 Hz 480i @ 60/50 Hz	N/A
HDMI Video Out Rotation	0 degrees/180 degrees/270 degrees	
Compression	Visual lossless compression	
Audio	HDMI: 2-ch uncompressed audio	
General		
Management Interfaces	Web management	
System Expandability (max.)	16 groups	
Resolution Identification	EDID (Extended Display Identification Data)	
Security	HDCP compliant	
Media Stream Bandwidth	Approximately 275Mbps@ 4K 30Hz	
Maximum Distance (between unit and PoE switch)	100 meters (330 feet) over CAT5e/6 cable	
Standards Conformance		
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3af/at PoE+	
HDMI Interface Compliance	HDMI 1.4a	
Protocol	TCP, UDP, RTSP, RTP, DHCP, IGMP Snooping, Multicast, IPv4	
Cabling	Cat5e/6 UTP cable	

Environment Specifications		
Operating	Temperature : 0 ~55 °C Relative Humidity : 5 ~90% (non-condensing)	
Storage	Temperature : -10 ~50 °C Relative Humidity : 5 ~90% (non-condensing)	
Emission	FCC, CE	
Standard Accessories		
Packet Contents	Media extender x 1 Quick Installation Guide x 1 Mounting Bracket x 2 Screws x 4 IR Emitter Cable x 1	Media extender x 1 Quick Installation Guide x 1 Mounting Bracket x 2 Screws x 4 IR Emitter Cable x 1

Risk'Expert

63 rue de Hollerich, L-1741 Luxembourg
Tel. : +352 26 19 02 74
Email : contact@riskexpert.lu www.riskexpert.lu