HDLAN | PoE-EX

Installation Guide

Safety Information:

Electrical safety

- Use only the power supplies and the AC power cord that were

  included with your product.

  Use of other power supplies could damage the product or cause
  shock, or other hazards

- For Indoor Use only

- Avoid excessive humidity, or temperature extremes

- Do not place the product in any area where it may become wet.

- Unplug the power supplies and the AC power cord before cleaning

  or removing any panels for servicing.

- When adding or removing devices to or from the product, disconnect

  all power cables from the existing product before you add a device.

Operation safety

- Install the product in a well-ventilated location. Keep ventilation

  opening free of obstructions.

- Don't block any ventilation openings on the unit.

- Avoid dust, humidity, and temperature extremes.

- Do not place the product in any area where it may become wet.

If you are unsure, please contact your authorized service center.

Description

The HDLAN | PoE is a HDMI Video over IP based video distribution platform. The HDLAN | PoE is designed for enterprise/professional audio video systems requiring large scale deployment of sources/displays utilizing standard LAN cables and network switches.

The HDLAN | PoE HDMI over IP delivers: video, audio, and IR. The HDLAN | PoE also supports PoE 802.3af enabling direct powering by PoE network switch for additional reliability and convenience.

The HDLAN | PoE supports wide variety of video distribution topologies:

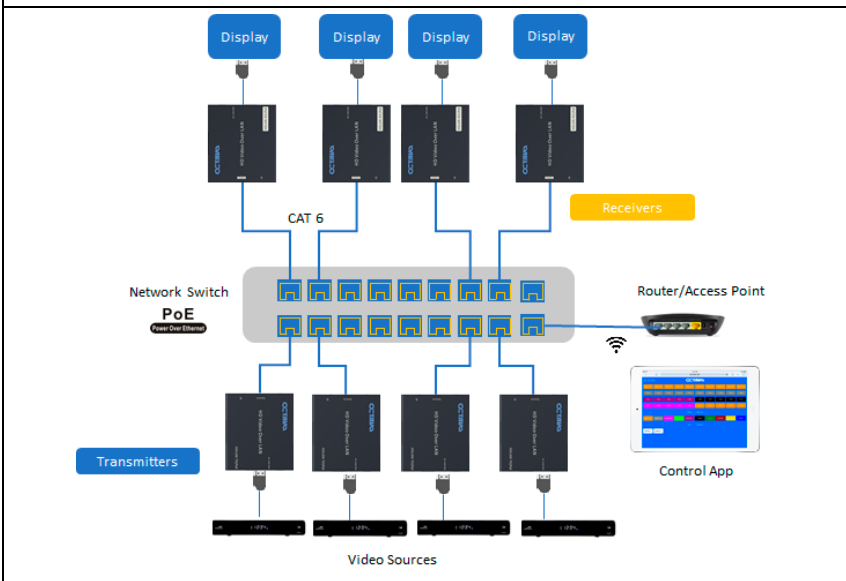| Video Source	Displays	IR /PoE	Network Switch Required
1	1	Yes	No
1	>1	Yes	Yes
Multiple	Multiple	Yes	Yes

Features

- Video Matrix - multi source to multi display capable
- Scalable architecture- build virtually any sized video distribution system
- Extend 1080P HD video over 1 single (CAT 5e/6) cable
- Robust long link connectivity up to 330ft (100m)
- Efficient bandwidth allocation for network efficiency
- Power over Ethernet, PoE compatible
- Wideband IR 20-60 KHz circuitry for maximum IR remote compatibility.
- Modular design for superior reliability.
- Full integration with Octava Video Management Gateway/apps or 3rd party control systems.
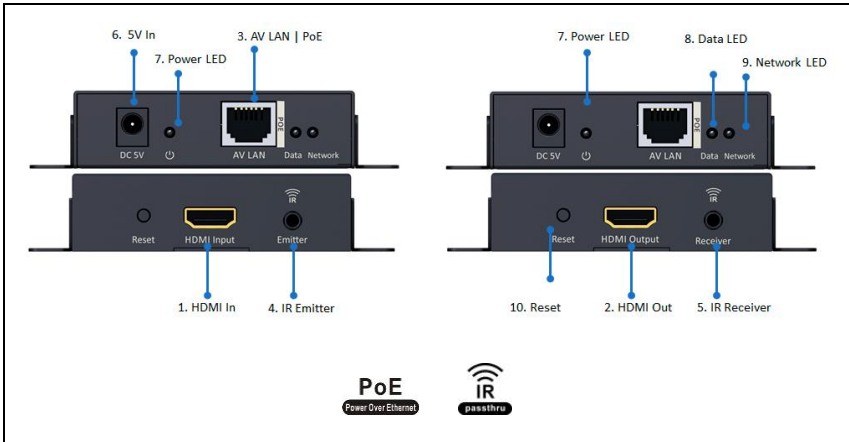
# Application Diagrams
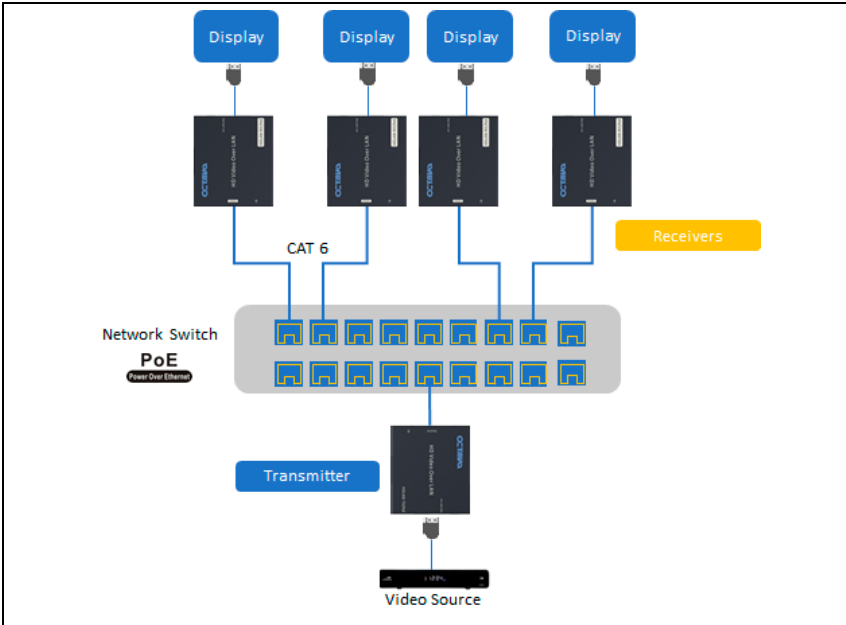
1.Single Source to Multi Displays

2.Multi Sources to Multi Displays

Front and Back Panel

1	HDMI In	Connect to video source
2	HDMI Out	Connect to display
3	AV LAN CAT6	AV LAN Network Connection. Supports PoE when used in conjunction with PoE Network Switch
4	IR Emitter	Connect with IR Emitter port (optional)
5	IR Receiver	Connect with IR Receiver port (optional)
6	5V Power In(optional)	Not needed if used with PoE Network Switch.
7	Power LED	Indicates unit is powered
8	Data LED	Video Data Detected
9	Network LED	Network Detected
10	Reset Button	Reset device

Installation

	Transmitter		Receiver
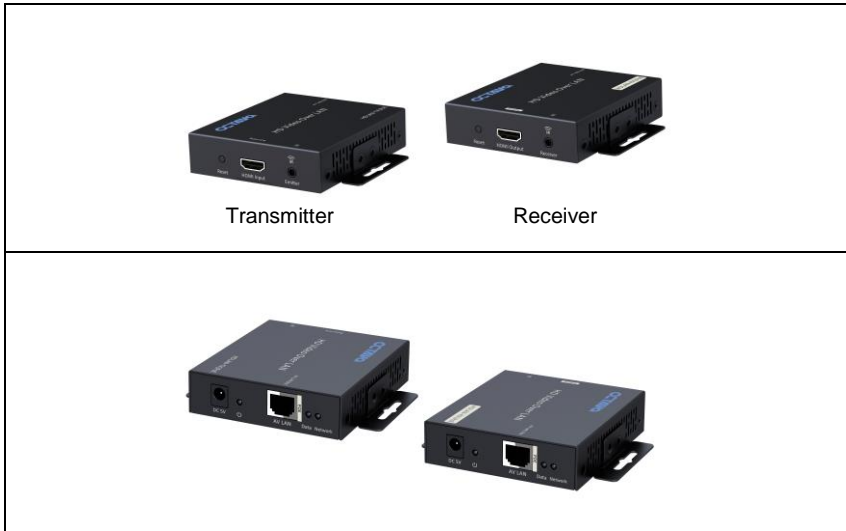
	Installation Procedure
1	Connect "**AVLAN"** port of the **Transmitter and Receiver** with CAT6 cable.
2	Connect HD source to HDMI In of Transmitter unit
3	Connect Display to HDMI Out of Receiver unit
4	**Connect IR cables(optional)**
6	Connect 5V DC power supply to the transmitter and receiver units. Note-If PoE Network Switch is used then 5V power supplies are not necessary If PoE Network switch is used. Do Not connect the 5V power supplies.
7	Verify that the PWR LED and Data LED Indicator are ON.
8	Turn on Source and Display.

Ethernet cable recommendations
Using Shielded Cat6A (STP, 24AWG or better) cable will ensure
maximum signal integrity plus optimum rejection of external interference.

	Cable Type	Note
1	UTP Cat5e/Cat6 cable Shielded (STP) Cat6A cable is recommended. 24 AWG or better	Recommended
Use EIA/TIA-568-B standard when terminating your LAN cables.		

IR Configuration

Connect IR Emitter to IR TX port	Connect IR Receiver to IR RX port
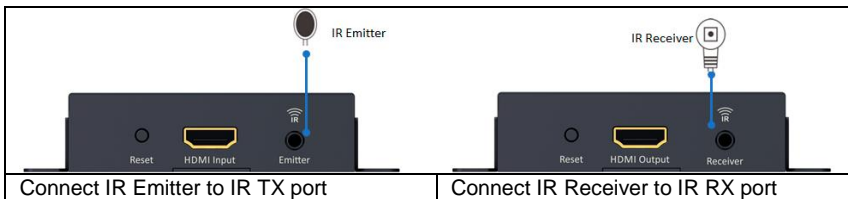
LED Indicator

1	Power LED	Solid Blue when powered
2	Network LED	Normal = solid Green OFF = not connected. Check LAN cable or connection to network switch
3	Data LED	Normal = yellow (fast blink) No Data = slow blink(1/sec)

Warranty
Octava warrants the equipment purchased to be free from defects in material and workmanship under normal use and service for a period of 1 year. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 1 year from the date of receipt.
If Octava's equipment fails because of defects (1) year from the date of receipt, Octava will at its option, A) repair or replace the equipment, or B) request return of equipment for refund of the price paid for the product provided that the equipment has not been subjected to mechanical, electrical or other abuse or modifications.
Proof of sale required to claim warranty.

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For Questions and support:

Email: info@octavainc.com
URL: www.octavainc.com

Parameter	Specifications	
Model	HDLAN | PoE-EX	
HDMI In	1	
HDMI Out	1	
CAT6 IN/OUT	1	
Link Distance CAT 6 Output	300ft @ 1080P	
Ethernet Cable	CAT5e/6	
EIA/TIA-568-B termination (T568B) recommended.		
Video Resolution	1080P	
Audio	2ch PCM	
Power over Ethernet (PoE)	IEEE802.3af	
Infrared Frequency	Wideband IR 20-60 KHz circuitry for maximum IR remote compatibility using Octava supplied IR cables.	
Dimension	Transmitter	3.7x3.1x 1 Inch (9.3x8x2.3 cm)
	Receiver	3.7x3.1x 1 Inch (9.3x8x2.3 cm)
DC adapter (included)	5 VDC	
Mounting Tabs	Included	