HDMI OVER IP EXTENDER BY NETWORKING CABLE

Quick Installation Guide
Ver. 1.0

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INTRODUCTION:

This HDMI over IP Extender use the advanced M-JPEG as the compression type, which makes it occupy lower bandwidth and transmit over the LAN more smoothly.
It supports 120m over single cat5e/6 cable at point to point, as well as point to many over Ethernet switch.
The over IP solution is widely used in various locations, like meeting room, class room, metro, airport, home, mall advertisement...etc.

FEATURES:

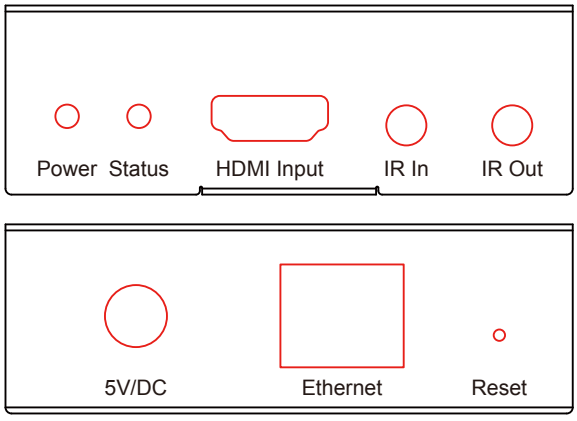
- Using M-JPEG compression encoding, support resolution up to 1080p@60hz
- Comply with TCP/IP protocol, Transmit up to 120meters@1080p/60Hz over single Cat5e/6 cable
- Support LPCM audio format
- Bi-direction Wide-band IR pass through to control the source or sink device. (38khz to 56khz)
- Support one to one or one to many modes with large cascade
- HDCP Compliant
- Support PC web control
- Build in EDID
- Carry power to Tx and Rx units with a Power Over Ethernet enabled Smart Managed Switch (*Optional POE version only)

PACKAGE CONTENTS:

- 1x Main unit Transmitter
- 1x Main unit Receiver
- 2x IR-Receiver cable
- 2x IR-Blaster cable
- 1x User Manual
- 2x 5V Power adapter

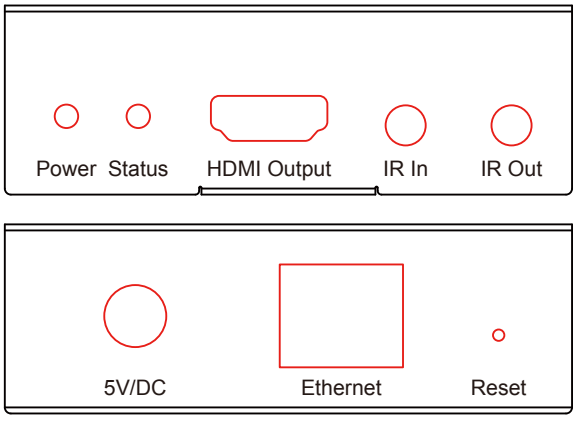
PRODUCT OVERVIEW:

Transmitter:



- IR Out: plug the IR blaster into this jack
- IR In: plug the IR receiver into this jack
- HDMI Input: connect to the HDMI output of your HDMI source device
- Status: this LED illuminates to indication the status of this transmitter
- Power LED: this LED illuminates when power is applied to the transmitter.
- Reset: press and hold this button for about 10 seconds to reset the transmitter to the factory default settings
- DC/5V: plug one of the included AC power adapters into this DC jack
- Ethernet: connect a cat5e/6 Ethernet cable into this port to deliver the signal to the receiver

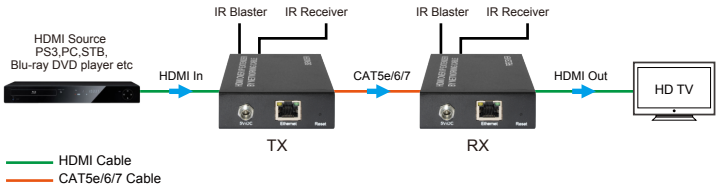
Receiver:



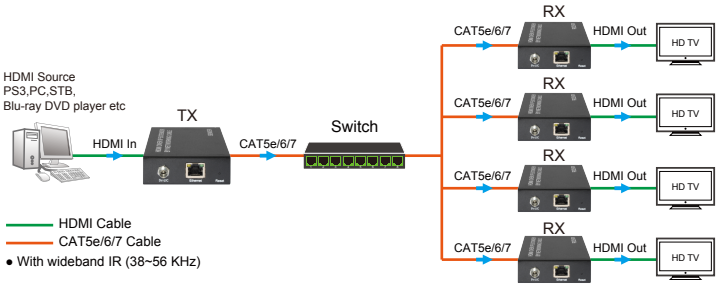
- IR Out: plug the IR blaster into this jack
- IR In: plug the IR receiver into this jack
- HDMI output: connect to the HDMI input of your HDMI sink device
- Status LED: this LED illuminates to indication the status of this receiver
- Power LED: this LED illuminates when power is applied to the receiver
- Reset: press and hold this button for about 10 seconds to reset the receiver to the factory default settings
- Ethernet: connect a cat5e/6 Ethernet cable into this port to receive signal from the transmitter
- DC/5V: plug one of the included AC power adapters into this DC jack

APPLICATION:

1: one to one extender



2: one to many extender & Splitter



CONNECTION:

one to one extender

1. Connect the source device and the Transmitter unit with HDMI Cable.
2. Connect another HDMI display and the HDMI Receiver unit with HDMI Cable.
3. Connect the Transmitter and Receiver with Cat5e/6 cable
4. Connect the IR blaster cable into “IR Out” port, and connect the IR Receiver cable into “IR In” port.
   Then you can control the source or sink device with IR.
5. Power on Transmitter and Receiver with 5V adapter.

NOTE: Insert/Extract cables gently

one to many extender & Splitter

1. Connect the source device and the Transmitter unit with HDMI Cable.
2. Connect the transmitter and the switch/router with cat5e or cat6 cable.
3. Connect all the Receivers and the switch/ router with Cat5e/6 cable.
4. Connect the HDMI displays and the HDMI Receiver units with HDMI Cable.
5. Connect the IR blaster cable into “IR Out” port, and connect the IR Receiver cable into “IR In” port.
   Then you can control the source or sink device with IR.
6. Power on Transmitter and Receiver with 5V adapter, power on the switch with its adapter.

SPECIFICATIONS:

Performance	
Protocol	M-JPEG encoder over TCP/IP
Support Video format	480i/480p/576i/576p/720p/1080i/1080p@60HZ
Support Audio format	LPCM, Audio sampling rate 48KHZ
HDCP	Compliant
IR Frequency	38 -56 KHZ
IP Setting	
TX default IP	192.168.168.55
RX default IP	192.168.168.56
Request for Switch/Router	Support IGMP, support DHCP
Connectors on Transmitter	
Input	1xHDMI Female port
Output	1x RJ45 output
IR	Support 38K-56KHz
Connectors on Receiver	
Input	1x RJ45 input
Output	1xHDMI Female port
IR	Support 38K-56KHz
Environmental & Power Requirements	
Operating temperature	0 to +40 C
Operating Humidity	Range 5 to 90%RH (No Condensation)
Power supply	DC 5V
Power consumption	Max 3 watt