

HD & IR to CAT5e/CAT6 Transmitter & Receiver - ID# 782 - 783



Operation Manual

Introduction

The HDMI with RS-232 over Single CAT5e/CAT6 transmitter and receiver set can send uncompressed audio/video over a single run of CAT5e/6 cable up to 100m with POE feature and the added benefit of control through the built-in RS-232 and IR ports and a bi-directional LAN connection.

Applications

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

Features

- HDMI 1.4 with 3D, 4k×2k support, HDCP & DVI Compliant
- Supports CEC bypass
- Simultaneous transmission of uncompressed data over a single 100 m/328 ft CAT6/CAT5e cable
- Uncompressed video 1080p, 60 Hz, 36-bit
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5Play™ convergence: HDMI, LAN, POE & Control (IR & RS232)
- Installation Friendly

Note:

1. This system was tested with CAT-6E/23AWG cables, results may vary with cables of a different specification.

2. The POE function is designed to support the same family type's receiver devices, it is not designed to power other devices.

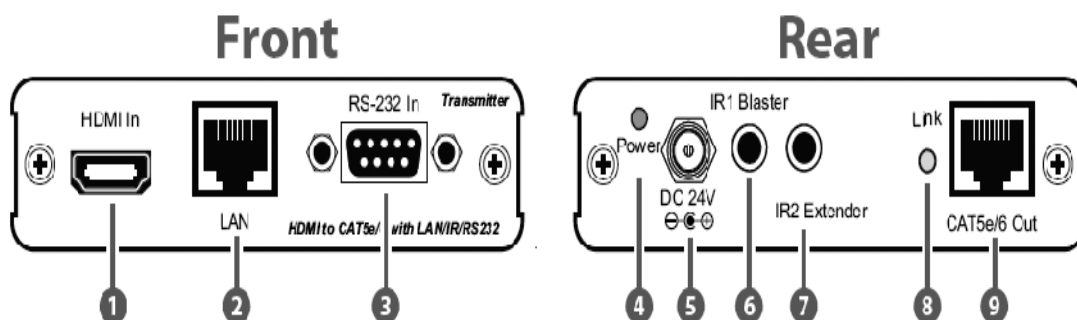
3. The POE function is designed to support the same family type of device (here it means receiver) only. It is not design to power other non-family type of devices.

System Requirements

Input HDMI source equipment such as DVD/Blu-ray player and HDMI equipped output display (TV or monitor).



Operation Controls and Functions Transmitter



1. HDMI In

Connect to HDMI source equipment such as a DVD or Blu-ray player.

2. LAN

Connect to an internet or network connection.

3. RS-232 In

Connect to a PC or laptop with D-Sub 9 pin male cable for the transmission of RS-232 commands.

4. Power LED

This blue LED will illuminate when the device is connected to a power supply.

5. DC 24V

Plug the 24 V DC power supply into the unit and connect the adaptor to an AC outlet.

6. IR 1 Blaster

Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.

7. IR 2 Extender

Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.

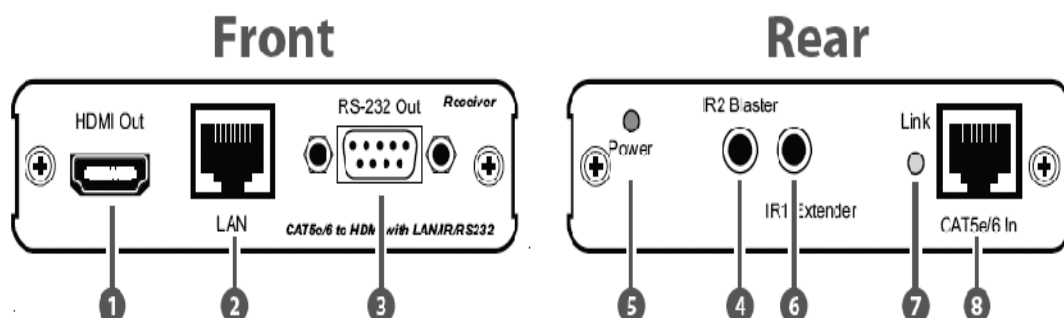
8. Link LED

The yellow LED will illuminate when both the input and output signals are connected.

9. CAT5e/6 Out

Connect to the receiver unit with a Single CAT5e/6 cable for transmission of all data signals.

Receiver



1. HDMI Out

Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.

2. LAN

Connect to a PC or Laptop to the Internet or network connection.

D-Sub 9 pin definitions

3. RS-232 Out

Connect to the device that is to be controlled (via D-Sub 9 pin female cable) by RS-232 commands.

4. Power LED

This blue LED will illuminate when the device is connected to a power supply.

5. IR 2 Blaster

Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled.

6. IR 1 Extender

Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.

7. Link LED

The yellow LED will illuminate when both the input and output signals are connected.

8. CAT5e/6 In

Connect to the transmitter unit with a Single CAT5e/6 cable for transmission of all data signals.

Pin	Define TxD / RxD
1	N/C
2	TxD / RxD
3	RxD / TxD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

Specifications

Video Bandwidth	300MHz/9Gbps
Ethernet Speed	100Mbps
Transmitter	
Input	1 × HDMI, 1 × IR Extender, 1 × RS-232, 1 × LAN
Output	1 × CAT5e/6, 1 × IR Blaster
Receiver	
Input	1 × CAT5e/6, 1 × IR Extender
Output	1 × HDMI, 1 × RS-232, 1 × IR Blaster, 1 × LAN
ESD Protection	Human Body Model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
IR Frequency	30~50 kHz
Power Supply	24 V/1.25 A DC (US/EU Standards, CE/FCC/UL certified)
Dimensions	102mm (W) × 115mm (D) × 25mm (H)/Each
Weight	252g (TX), 256g (RX)
Chassis Material	Aluminum
Silkscreen Color	Silver
Power Consumption	13 W
Operating Temperature	0 °C~40 °C/32 °F ~104 °F
Storage Temperature	-20 °C~60 °C/-4 °F~140 °F
Relative Humidity	20~90 % RH (non-condensing)

Connection

