HDBaseT-Lite HDMI over CAT5e/6/7 Transmitter & Receiver - **ID# 15110/11**

Operation Manual

CONVERTERS.TV

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 100 m* and has the added benefit of control through the built-in RS-232 and IR ports.

*Light version can run up to 60m

Features

- HDMI including 3D, 4k×2k supports, HDCP and DVI compliant
- Supports HDCP repeater and CEC function
- Simultaneous transmission of uncompressed data over a single CAT6/CAT5e cable up to 100 m/328 ft*
- Uncompressed video 1080p, 60 Hz, 36-bit
- Audio support up to LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio
- 3Play convergence: HDMI & Control (IR & RS-232)
- Installation friendly

Note: This system was tested with CAT6/23AWG cable. Results may vary with cables of different specifications.

**Light version CAT6/CAT5e cable up to 60m/196.8ft*

Applications

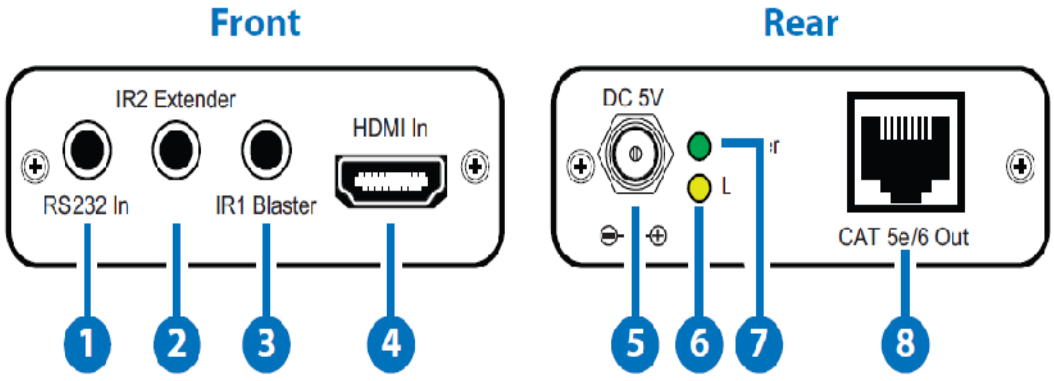
- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

System Requirements

Input HDMI source equipment such as DVD/Blu-ray players and HDMI equipped output display (TVs or monitors).

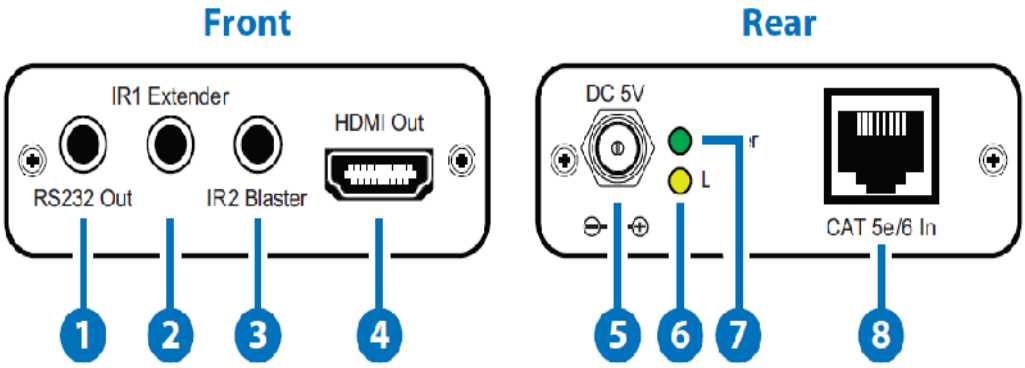
Operation Controls and Functions

Transmitter Front and Rear Panel



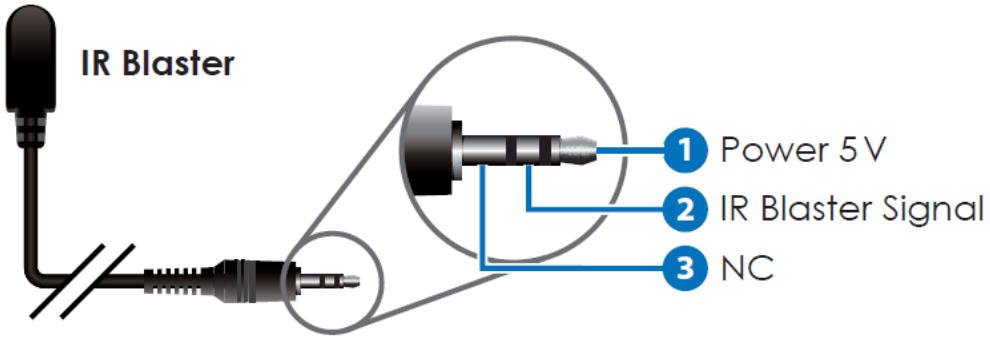
1. RS-232 In: Connect to a PC/laptop or RS-232 enabled device(with supplied 3.5 mm phone jack to D-Sub 9 pin adaptor) for the transmission of RS-232 commands.
2. IR2 Extender: Connect to the supplied IR extender cable for IR signal reception. Ensure that remote controller being used is within the direct line-of-sight of the IR extender.
3. IR1 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.
4. HDMI In: Connect to HDMI source equipment such as a DVD or Blu-ray player.
5. DC 5V: Plug the 5 V DC power supply into the unit and connect the adaptor to an AC outlet.
6. Link: The yellow LED will illuminate when both the input and output CAT5e/6 signals are connected.
7. Power: This green LED will illuminate when the device is connected to a power supply.
8. CAT5e/6 Out: Connect to the receiver unit with a single CAT5e/6 cable for transmission of all data signals..

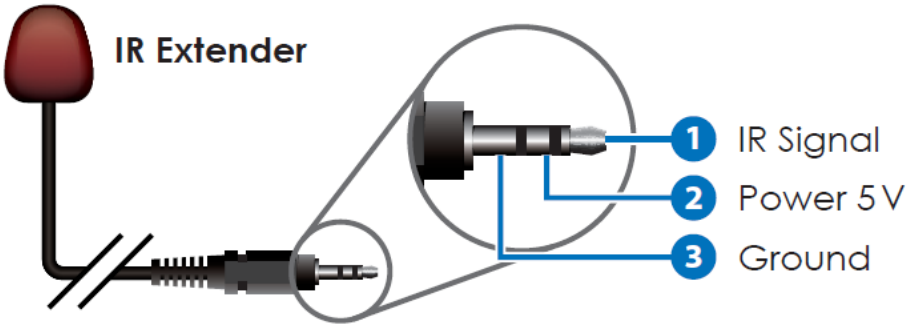
Receiver Front and Rear Panels



1. RS-232 Out: Connect to the device that is to be controlled (with the supplied 3.5mm phone jack to D-Sub 9-pin adaptor) by RS-232 commands.
2. IR1 Extender: Connect to the supplied IR extender cable for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.
3. IR2 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.
4. HDMI Out: Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.
5. DC 5V: Plug the 5 V DC power supply into the unit and connect the adaptor to an AC outlet.
6. Link: The yellow LED will illuminate when both the input and output CAT5e/6 signals are connected.
7. Power: This green LED will illuminate when the device is connected to a power supply.
8. CAT5e/6 In: Connect to the transmitter unit with a Single CAT5e/6 cable for transmission of all data signals

IR Pin Assignment

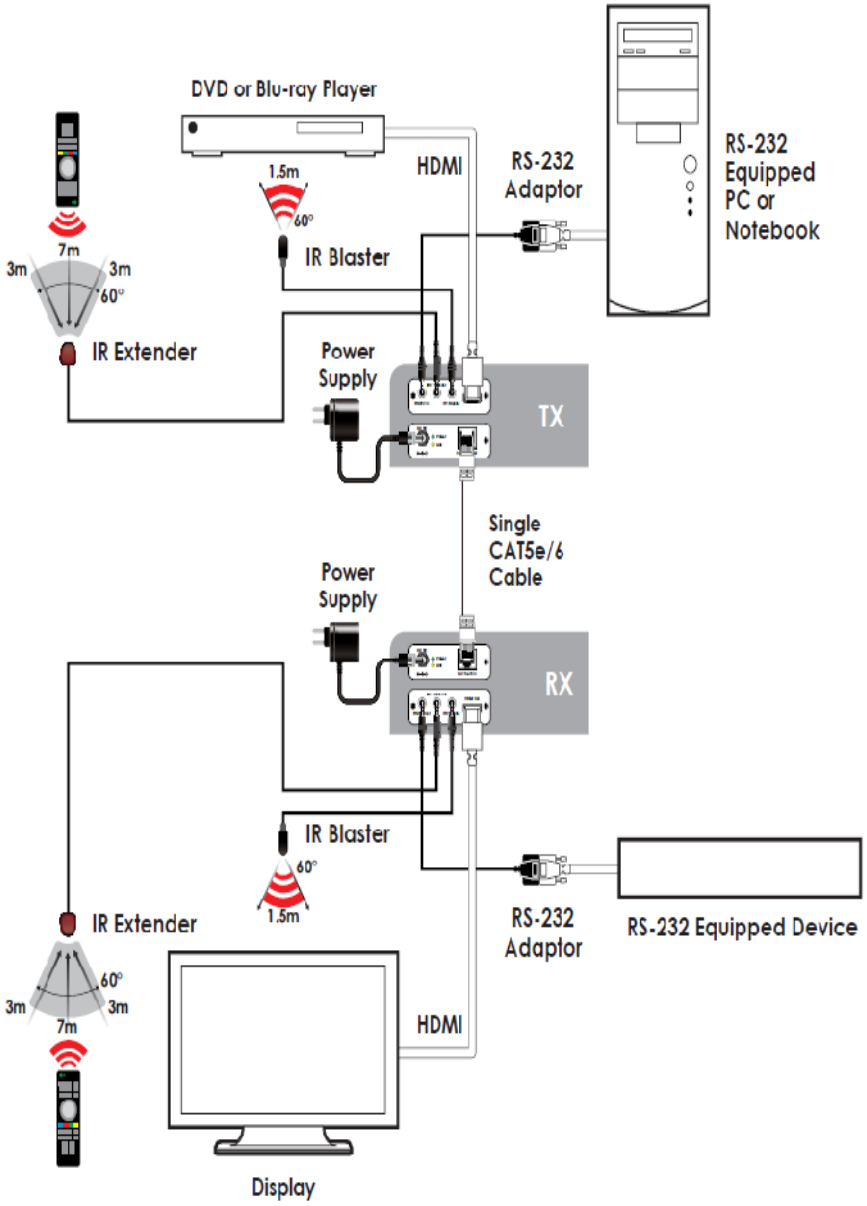




D-Sub 9-Pin Definitions

Pin	Definitions
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

Connection Diagram



Specifications

Video Bandwidth		225MHz/6.75Gbps
Transmitter	**Input**	1×HDMI, 1×IR Extender, 1×RS-232
	Output	1×CAT5e/6, 1×IR Blaster
Receiver	**Input**	1×CAT5e/6, 1×IR Extender
	Output	1×HDMI, 1×RS-232, 1×IR Blaster
HDMI I/O Cable Distance		10m/8bits 6m/12bits/input, 15m/12bits/output
ESD Protection		Human-body Model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)w
IR Frequency		0~50 kHz
Dimensions		71 mm (W)×79 mm (D)×23 mm (H)
Weight		240 g (TX), 245 g (RX)
Chassis Material		Aluminum
Silkscreen Color		Black
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)
Power Consumption		3 W (TX), 6 W (RX)