
AV-825

HDMI with IR CAT6 Extender Kit

Installation Guide

(April 28, 2016)

■ Package Contents

1 x AV-825T Transmitter,

1 x AV-825R Receiver,

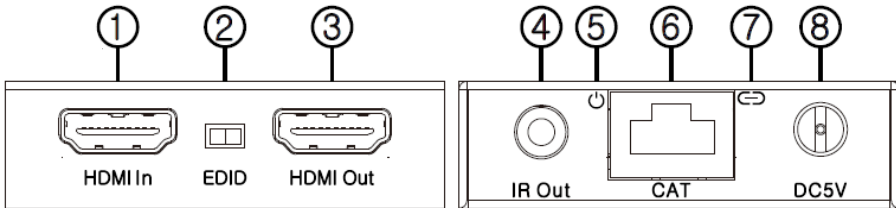
1 x Wideband IR Tx cable,

1 x Wideband IR Rx cable,

1 x DC 5V 1A Power supply Adaptor

1 x This Manual

AV-825T Transmitter unit:

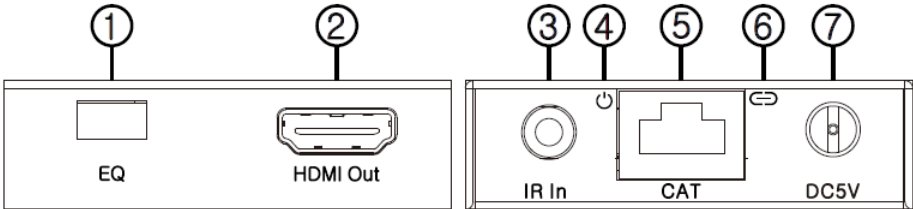


Connector	Description
1. HDMI In	Connects to the HDMI source.
2. EDID Switch	Right: Set the TX's HDMI Out as the default EDID. Left: Set the RX's HDMI Out as the default EDID.
3. HDMI Out	Connects to the Loop-Out HDMI screen
4. IR Out	Connects the IR Blaster cable and place the IR emitter directly in line of sight to the equipment to be controlled.

Connector	Description
5. Power LED	Power On/Off indication.
6. CAT Out	Connects to the CAT In of the RX by using a CAT6/7 cable.
7. HDMI Source	This LED will illuminate when the device is connected to HDMI source.
8. DC 5V	Connects to 5V DC power supply.

Receiver unit:

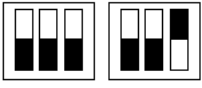
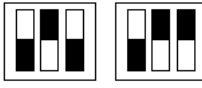
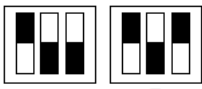
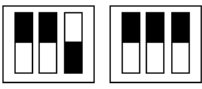
AV-825R HDMI Receiver



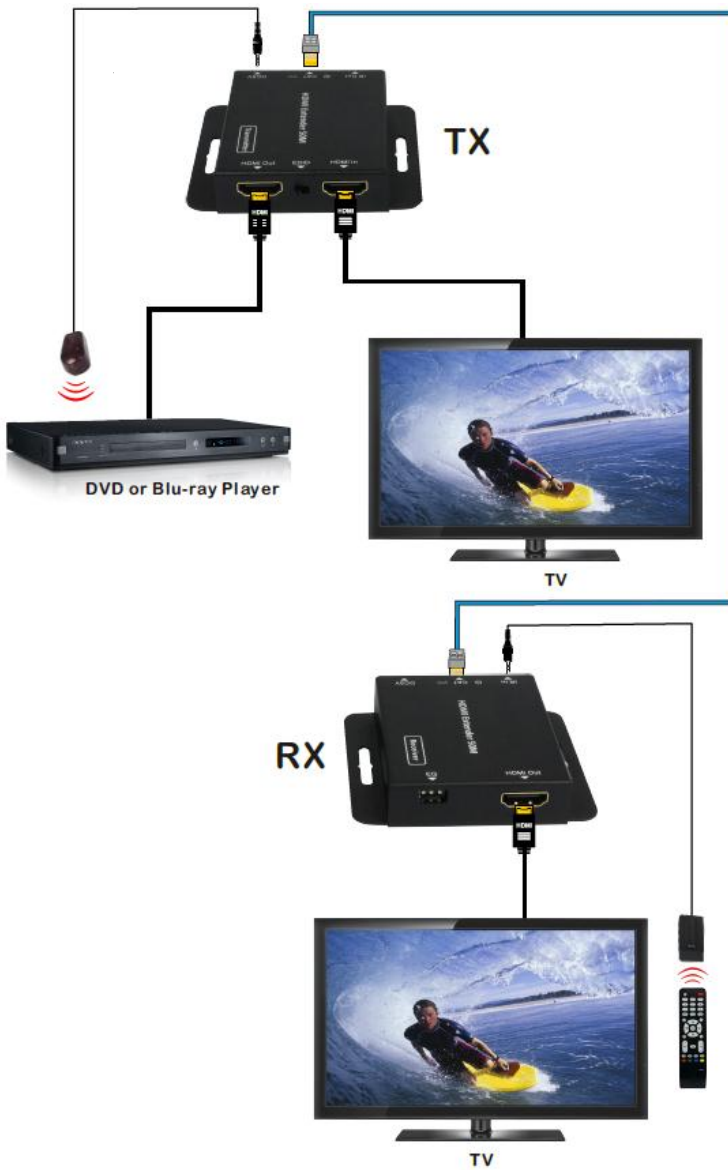
Connector	Description
1. EQ Switcher	HDMI Receiver equalizer switcher.
2. HDMI Out	This slot is to connect the HDMI input port of your display such as an HDTV.
3. IR In	Connect to the IR Receiver for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR receiver.
4. Power LED	This LED will illuminate when the device is connected with power supply.
5. Cat In	Connect the CAT cable from output from the transmitter.
6. Link LED	This LED will illuminate when the HDMI signal from the transmitter is stable.
7. DC 5V	Connect from 5V DC power supply into the unit and connect the adaptor to an AC outlet.(For POC function, the receiver does not need power supply)

RX Equalizer distance adjust

If you see flickering or blinking image on the display, adjust the EQ switch to improve the cable skew. MAX stands for the strongest HDMI signal level for the longest possible transmission length while MIN stands for the weakest HDMI signal level for short transmission length. Adjust the signal level from MIN to MAX until desired video quality is displayed.

Recommended EQ setting	
Position	Cable Length
 0 1	Under 15m (49.5ft)
 2 3	15-30m (49.5ft – 99ft)
 4 5	30-40m (99ft – 132ft)
 6 7	40-50m (132ft – 164ft)

Connection diagram



Connect and Operate

1. Connect a source such as a Blu-Ray Player, A/V Receiver, Cable or Satellite Receiver, etc. to the HDMI input on the Transmitting unit.
2. Connect a display such as an HDTV or HD Projector to the HDMI output on the Receiving unit.
3. Connect a single Category 5e/6 up to 164ft/50m to the output of the Transmitting unit, and the other end to the input of the Receiving unit.
4. For power, plug both the Transmitting unit and Receiving unit with the included power supplies.
5. Power on each device in the same sequence (receiver and transmitter will already be powered when either unit is plugged in.)

At this point the display connected should display the source signal connected to the extender set. If no signal is being displayed, check the receiver EQ switcher. If a display is having difficulty receiving a signal, see EDID section and perform EDID learning or access the display's menu and adjust the resolution (lowest to highest until signal is displayed). A 24 Hz vertical refresh rate may work better than 60 Hz or higher. Use the source remote at the receiver emitter to test IR functionality. If the IR remote function is not responding, check the emitters to ensure they are placed correctly and are plugged into the correct IR jacks on the Extender set receiving and transmitting units.

Specification

- Frequency Bandwidth: Single-link 165MHz[4.95Gbps]
- Video Support: 480i/480p/720p/1080i/1080p @60
- Audio Support: Surround Sound (up to 7.1 ch) or stereo digital audio
- Transmission Range: HD [1080p 24-bit color] – up to 50m [164ft]
- Power Supply: DC 5V 1A
- ESD Protection: $\pm 8\text{kV}$ (air-gap discharge)
Human Body Model: $\pm 4\text{kV}$ (contact discharge)
- Dimensions (mm): (W) X (D) X (H)
- Weight: g
- Operating Temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$ / $32^{\circ}\text{F} \sim 104^{\circ}\text{F}$
- Storage Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ / $-4^{\circ}\text{F} \sim 140^{\circ}\text{F}$
- Relative Humidity: 20~90% RH (Non-condensing)
- Power Consumption: 1.5W(Tx)/1.0W(Rx)