



**Comprehensive<sup>®</sup>**  
Connectivity Company

**HDMI Extender over one CAT5E/CAT6(TCP/IP)**

**CHE-HD300**

**User manual**

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## **I. Introduction**

The HDMI Extender over ONE CAT 5E/6 is a tool for extending your HDMI signal over long distances to a compatible display. Instead of using expensive HDMI cables, your existing CAT 5E/6 cables/sockets can be utilized to perform advanced functions like transferring Deep Color (12 bits/color) video and digital audio, with a bandwidth up to 225MHz. The HDMI transmitter and receiver, over ONE CAT 5E/6 extender is your substantial HDMI extender tool. The HDMI Extender over ONE CAT 5E/6 also support IR re-transmitting, so you can control the Source which is 330 feet outside using the HDMI Extender.

## **II. Features**

DC 5V~12V wide power supply.

HDMI 1.3, HDCP 1.1 and DVI1.1 compliant.

Support Deep Color up to 12 bits/color.

Support IR re-transmitting.

Uses one CAT5E/6 cable for data/DDC transmission.

Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality regardless of the incoming signal quality.

Cable testing showed that with 1080p resolution the HDMI input source can be 65 feet away.

When transmitting a signal in 1080p resolution the CAT6 operating distance is 330 feet.

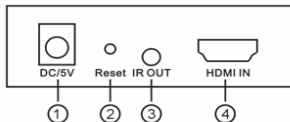


ESD Protection Human Body Model:	$\pm 8\text{kV}$ (air-gap discharge) $\pm 4\text{kV}$ (contact discharge)
Dimensions (mm)	65(W) X 100 (D) X 25 (H)
Operating Temperature	$0^{\circ}\text{C} \sim 40^{\circ}\text{C}$ / $32^{\circ}\text{F} \sim 104^{\circ}\text{F}$
Storage Temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ / $-4^{\circ}\text{F} \sim 140^{\circ}\text{F}$
Relative Humidity	20~90% RH (non-condensing)

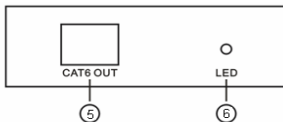
## V. Operation controls and Functions

### 1. HDMI Extender Transmitter

**Front Panel**



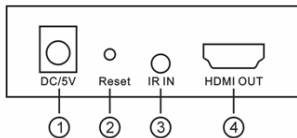
**Rear Panel**



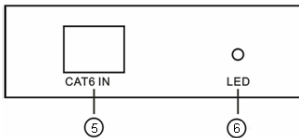
- 1) **Power:** Plug the 5V~12VDC power supply into the unit and connect the adapter to AC wall outlet.
- 2) **RESET KEY:** Factory default key.
- 3) **IR OUT:** Remote control signal transmit, connect the IR transmit cable with HDMI Extender Transmitter; The IR transmit cable face to the IR receiver of the Source.
- 4) **HDMI:** HDMI Input port.
- 5) **CAT6 OUT:** Connect the CAT 5E/6 output of the Transmitter with the CAT 5E/6 input of the HDMI over single CAT6 receiver.
- 6) **LED indicator:** When the DC power on, the indicator will be light.

## 2. HDMI Extender Receiver

**Front Panel**



**Rear Panel**



**1) Power:** Plug the 5V~12VDC power supply into the unit and connect the adapter to AC wall outlet.

**2) RESET KEY:** Factory default key

**3) IR IN:** Remote control signal Receive, connect the IR receive cable with HDMI Extender Receiver.

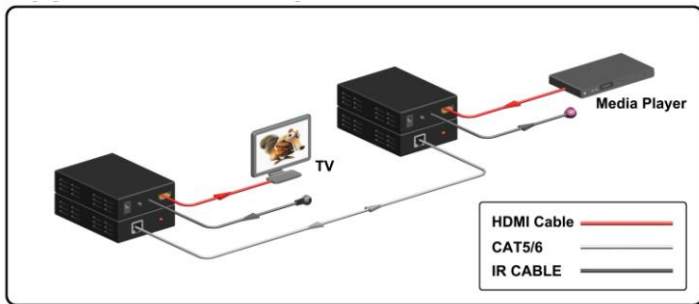
**4) HDMI Out:** HDMI output port.

**5) CAT6 IN:** Connect the CAT6 in of the receiver with the CAT6 input of the HDMI over

single CAT6 transmitter.

**6) LED indicator:** When the DC power on, the indicator will be light.

## VI. Application Example





Router Connection:

