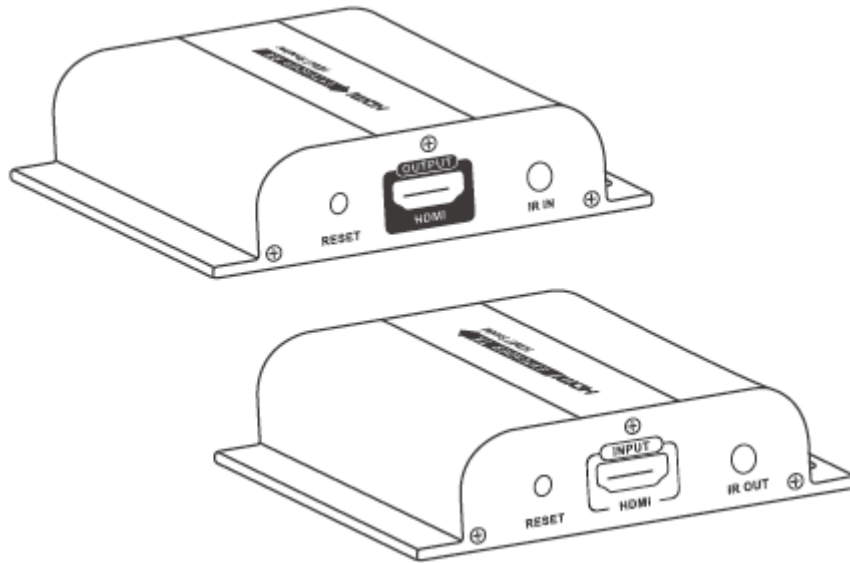


# HDbiT HDMI Extender

## User Manual



### 1 . INTRODUCTION

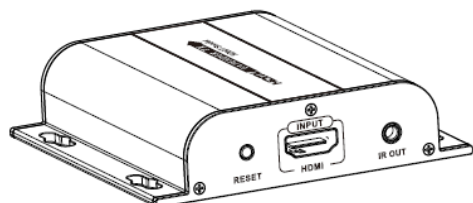
HDMI HDbiT extender, takes the advantages of the latest transmission technology – HDbiT, extend the transmit length of HDMI Visual/Audio up to 120m(394ft) with single network cable. Supports IR signal transmission, to control media playback of the signal source device at the display location .

#### Important Safety instructions:

1. Do not mix up the HDMI to LAN sender and LAN to HDMI receiver, and the IR blaster and IR receiver.
2. Do not plug-in/out the cables ,when it is in using
3. Use DC 5V power supply only. Make sure the specification matched if using 3<sup>rd</sup> party DC adapters.

### 2. Package Contents

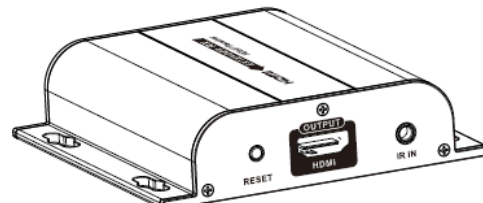
1.HDMI EXTENDER TX×1pcs



3.DC5V/1A DC Adaptor×2pcs



2. HDMI EXTENDER RX×1pcs



4. User Manual×1pcs



5. IR blaster extension cable×1



6. IR receiver extension cable×1



### 3. Installation Requirements

3.1. HDMI source devices: with HDMI OUTPUT interface, DVD, PS3, STB, PC etc.

3.2. Display devices : With HDMI INPUT port, SDTV, HDTV, projector

3.3. Network cables :

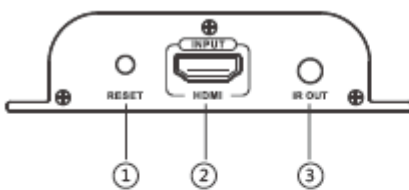
UTP/STP Cat5e/6 network cables, which following the standard of IEEE-568B.

Transmission length: CAT5 80m/CAT5E 100m/CAT6 120m

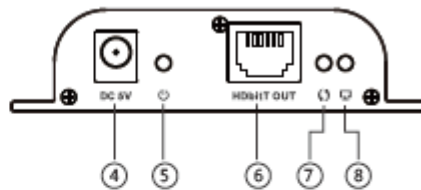
### 4. Interface



#### 4.1.HDMI EXTENDER TX (Sender)

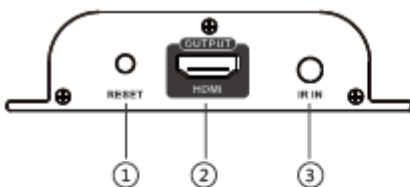


- ① Reset
- ② HDMI signal input
- ③ IR signal output to connect with blaster extension cable
- ④ Power input ( DC5V )

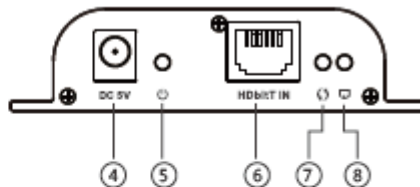


- ⑤ Power Light
- ⑥ HDbitT signal output
- ⑦ Data transmission light
- ⑧ Network link light

#### 4.2.HDMI EXTENDER RX (Receiver)



- ① Reset
- ② HDMI signal output
- ③ IR signal input to connect with IR receiver extension cable
- ④ Power input ( DC5V )



- ⑤ Power Light
- ⑥ HDbitT signal input
- ⑦ Data transmission light
- ⑧ Network link light

### 5. Connection & Installation

## 5.1. How to make a Cat5e/6 network cable



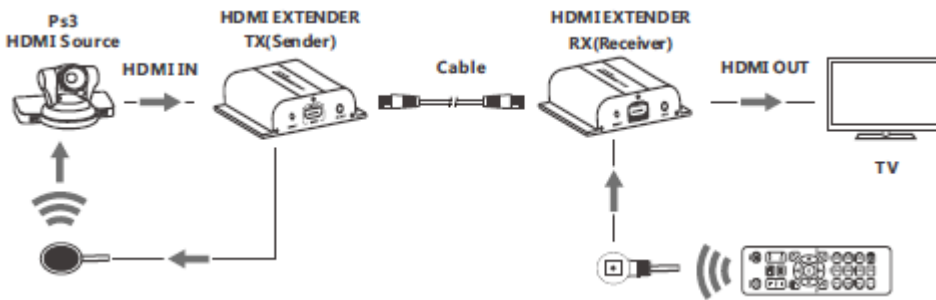
Follow the standard of IEEE-568B:

|   |                  |   |                |   |                 |
|---|------------------|---|----------------|---|-----------------|
| 1 | white and orange | 4 | blue           | 7 | white and brown |
| 2 | orange           | 5 | white and blue | 8 | brown           |
| 3 | white and green  | 6 | green          |   |                 |

## 5.2 Connections

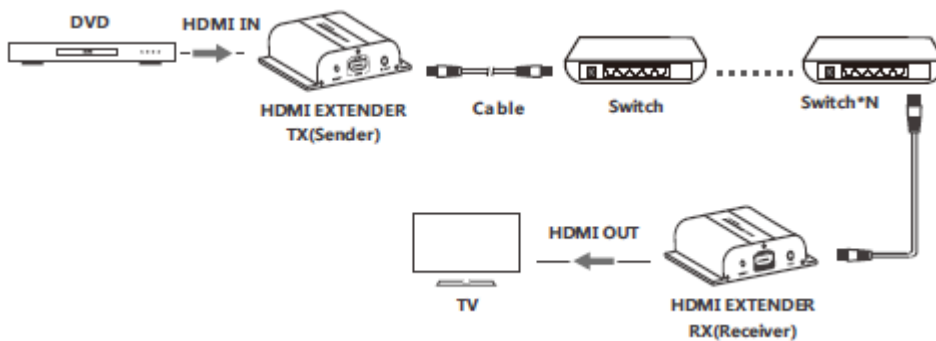
### 5.2.1 Point to Point connection:

Up to 120 meters transmission distance over single CAT6 (High quality cable can reach 150 meters)



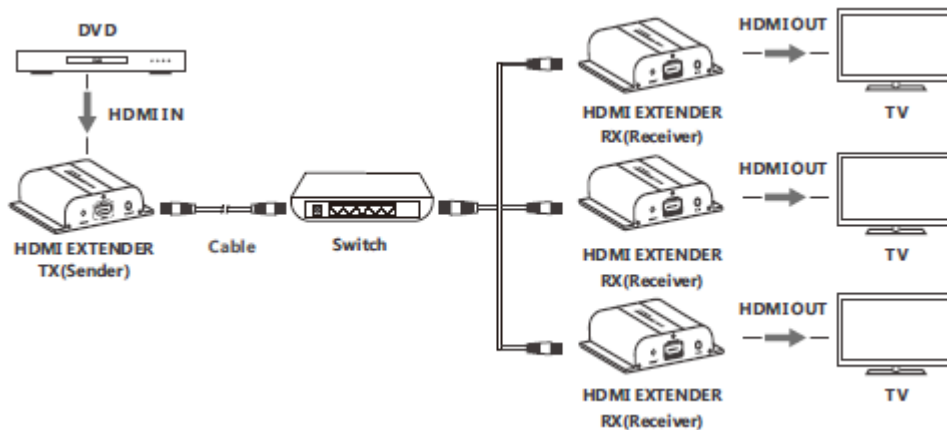
### 5.2.2 Router Connection:

By using network router/repeater, realize unlimited extension.



### 5.2.3 One-to-many Connection:

By using network router/switch , one sender to several receivers, realize extender & splitter function.



Note: Gigabit (1000Mbps) switcher is Recommended in LAN transmission.

### 5.3. IR User Guide

IR blaster extension cable should plug-in the IR-out port of TX (Sender) of HDMI extender, and the IR receiver extension cable should plug-in the IR-out port of the RX (Receiver) of HDMI extender. The emitter of IR blaster should as close as possible to the IR receiver of the signal source device.

Using the IR remote controller of the signal source device towards the IR receiver (connected to the RX of HDMI extender), to remote control source media playback.

### 6. FAQ

Q: TV display "Waiting for connection" on the right corner ?

A: Please check if the power supply of TX (Sender) and switcher(if used) is connected, and make sure connecting cable is firmly;

Q: TV display "Please check the TX input signal" ?

A: 1) please check if there is a HDMI signal input of TX;

2) Try to connect the signal source directly to display device to see if there is signal output from source device, or change the signal source, HDMI wire and try again.

Q: Display not fluent, not stable?

A: 1) Please check the cable length between the TX to switch, the switch to the RX and the connection between each level is within the required range;

2) Click the "reset" button on the TX/RX front panel, , reset and reconnect.

### 7. Technical Specification

| Items                | Specifications   |
|----------------------|--|
| HDMI Signal          | Compatible with HDCP1.2  |
| Transport protocol   | HDbitT   |
| Supports resolutions | 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz |
| Network Cable        | UTP/STP Cat5/5e/6  |

|                       |   |
|-----------------------|---|
| Transmission distance | Up to 120 meters transmission distance for 1080P Full HD over single CAT6 |
| IR Signal             | Supports 20~60KHz IR devices  |
| Working Temperature   | 0°C ~ 60°C  |
| Power Supply          | DC5V/1A   |
| Power Consumption     | TX : 3.5W ; RX : 3W   |
| Dimensions            | 130(W) x84(D) x23.2(H)mm *2pcs  |
| Weight                | TX:250g RX: 200g  |
| Color                 | Black   |

### **Disclaimer**

The product name and brand name may be registered trademark of related manufactures. ? and ? may be omitted on the user manual.

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