



## 875722 HDBaseT Receiver



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.

## Surge protection device recommended

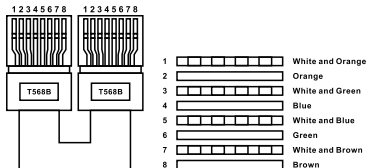
This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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## Caution

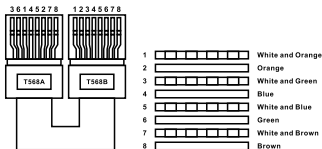
The extender using UTP termination, which follows the standard of direct interconnection method.



**Direct interconnection method**

## Advanced

The extender will start protection mode automatically when using UTP termination, which follows the standard of cross interconnection method.



**Cross interconnection method**

## I. Introduction

The cat5e/cat6 HDMI Extender is a tool which can extend your HDMI signal over 230fts/ 70meters to a compatible display. It is designed to convert HDMI signal to standard HD BaseT signal which can be transmitted by LAN cable. It also supports Transfer Bidirectional Infrared control signal together with the HDMI signal, so you can control the Source in the Sink side which is 230fts outside, also you can control the Sink in the Source side which is 230fts outside by using the HDMI Extender.

## II. Features

- ☆ POC (Power Over Cable) function is supported, either TX or RX is powered by 24V@1A power supply, the another does not need power supply from the DC jack. POC Power consumption is less than 10W.
  - ※ See the description 1
- ☆ Use single UTP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distance transmission.
- ☆ UTP termination follows the standard of direct interconnection method.
- ☆ Transmission distance: ※Over CAT6 cable
  - 70 meters: 1080P @60Hz36bit; 3D1080P@30Hz36bit;
  - 40 meters: 1080P @60Hz@48bit; 1080P @120Hz@24bit;
  - 3D1080P@60Hz@36bit; 4K x 2K@30Hz@24bit.

- ☆ Support display resolutions up to 4K x 2K@30Hz
- ☆ Full HD support: 1080p@60Hz@48 bit/pixels, 1080p@120Hz@24 bit/pixels, 3D 1080P60Hz and 4K x 2K@30Hz@24bit
- ☆ Transfer Bidirectional Infrared control signal together with the HDMI signal.
  - ※ See the description 2.
- ☆ Transfer Bidirectional RS232 control signal together with the HDMI signal.
  - ※ See the description 3.

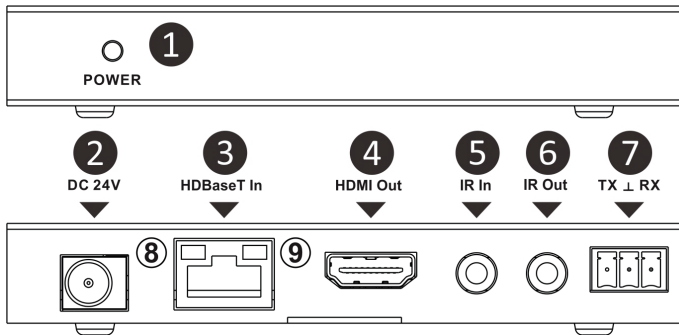
### III. Package

|                                 |      |
|---------------------------------|------|
| 1. HDMI Extender Receiver ----- | 1PC  |
| 2. Wideband IR Tx -----         | 1PCS |
| 3. Wideband IR Rx -----         | 1PCS |
| 4. 24V1A DC Power Supply -----  | 1PCS |
| 5. Operation Manual -----       | 1PC  |
| 6. Mounting ears-----           | 2PC  |

## IV. Specifications

| Technical                   |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Frequency Bandwidth         | 297MHz[10.2Gbps]                                                                               |
|                             |                                                                                                |
| Receiver Input/Output Ports | 1xHDMI Female port/1xCAT6<br>1x IR Tx/1x IR Rx/1xPhoenix                                       |
| Power Supply                | DC 24V 1A                                                                                      |
| ESD Protection              | Human Body Model: $\pm 8\text{kV}$ (air-gap discharge)<br>$\pm 4\text{kV}$ (contact discharge) |
| Dimensions (mm)             | 65(W) X 115 (D) X 17 (H)                                                                       |
| Weight                      | 200g                                                                                           |
| 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           | 20W (Max)                                                                                      |

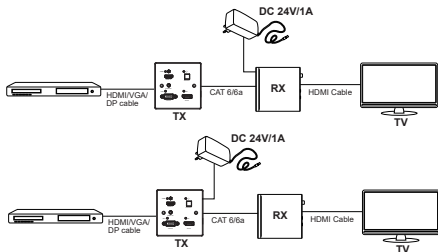
## Receiver



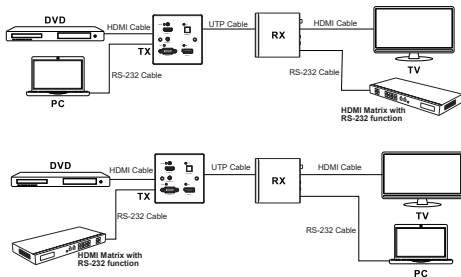
1. **POWER:** This LED illuminates when the device is connected with power supply
2. **DC 24V:** Plug the 24V DC power supply into the unit.
3. **HD BaseT IN:** Standard HD BaseT signal input port. Connect HD BaseT transmitter with a UTP cable following the standard of direct interconnection method.

4. HDMI OUT: HDMI output port. This slot is where you connect the HDTV or monitor with HDMI cable.
5. IR IN: Channel 1 IR Receiver. Connect with Wideband IR Rx.
6. IR OUT: Channel 2 IR Transmitter. Connect with Wideband IR Tx.
7. RS232: Phoenix jack provide Serial port control signal from receiver or to receiver.
8. Connection Signal Indicator Lamp
  - ※Illuminate: The Transmitter and Receiver are in good connections status.
  - ※Flashing: The Transmitter and Receiver are in poor connections status.
  - ※Dark: The Transmitter and Receiver are not connected.
9. Data Signal Indicator Lamp
  - ※Illuminate: The HDMI signal with HDCP.
  - ※Flashing: The HDMI signal without HDCP.
  - ※Dark: No HDMI signal.

## ※ Description 1 POC (Power over Cable) Application Example



## ※ Description 3 Bidirectional RS-232 control Application Example



## 6. Application Example

