BG-PSC8X2-REC
HDMI Receiver over Cat5e/Cat6 (HD BaseT)

User Manual

VER 1.4

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.

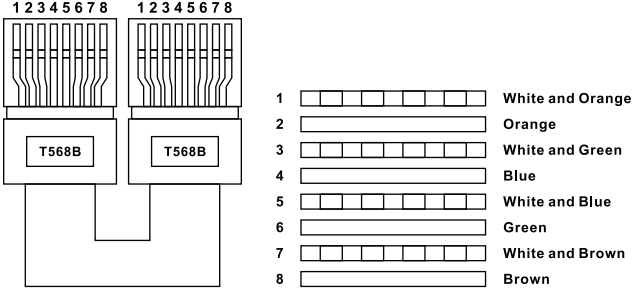
Surge protection device recommended

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

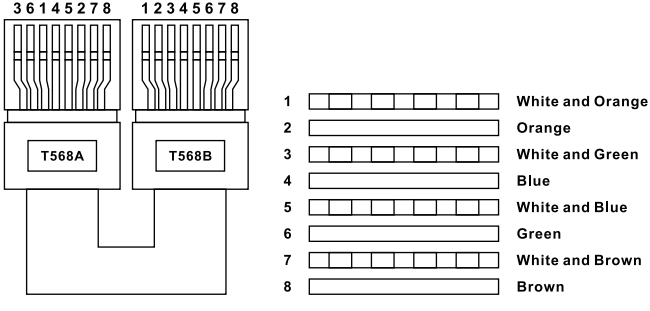
Table of Contents

Advanced:

The receiver using UTP cable termination follows the standard of IEEE-568A and IEEE-568B.



Direct interconnection method



Cross interconnection method

I. Introduction

The BG-PSC8X2-REC HDMI Receiver is a tool which can extend your HDMI signal over 328ft/100meters to a compatible display. It is designed to accept a HDBaseT signal which can be transmitted by category cable. It also supports bi-directional IR and RS232.

II. Features

1. POE(Power Over Ethernet)function support, either TX or RX powered 24V@1A,another don't need power form the DC jack. POE Power Consumption less than 10W. ※ See the description 1
2. Use single UTP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distances transmission.
3. UTP cable termination follows the standard of IEEE-568A or IEEE-568B.
4. Transmission distance: ※Over CAT6 cable
   100 meters: 1080P @60Hz36bit; 3D1080P@30Hz36bit;
   70 meters: 1080P @60Hz@48bit; 1080P@120Hz@24bit; 3D1080P@60Hz @36bit; 4K x 2K@30Hz@24bit.
5. Support display resolutions up to 4K x 2K@60Hz
6. Full HD support: 1080p@60Hz@48 bit/pixels, 1080p@120Hz@24 bit/ pixels, 3D 1080P60Hz and 4K x 2K@30Hz@24bit
7. Transfer Bidirectional Infrared control signal together with the HDMI signal. ※ See the description 2.
8. Transfer Bidirectional RS232 control signal together with the HDMI signal. ※ See the description 3.

III. Package

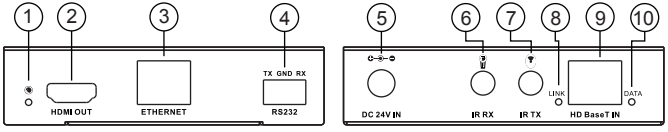
1. HDMI Extender Receiver ---------- 1PCS
2. Wideband IR Tx ---------- 2PCS
3. Wideband IR Rx ---------- 2PCS
4. 24V1A DC Power Supply ---------- 1PCS
5. Operation Manual ---------- 1PCS
6. Phoenix Contact---------- 2PCS
7. Mounting ears---------- 4PCS

IV. Specifications

1. Frequency Bandwidth---------- 2.97Gbps
2. Receiver Input/Output Ports-- 1xHDMI Female port/2xCAT6
3. Power Supply---------- 1x IR Tx/1x IR Rx/1xPhoenix
4. ESD Protection DC 24V 1A
   Human Body Model:---------- ± 8kV (air-gap discharge)
5. Dimensions (mm)----------± 4kV (contact discharge)
6. Weight---------- 00(W) X 100 (D) X 25 (H)
7. Operating Temperature-------- 320g x 2
8. Storage Temperature----------0°C ~ 40°C / 32°F ~ 104°F
9. Relative Humidity---------- -20°C ~ 60°C / -4°F ~ 140°F
10. Power Consumption (Max) 20~90% RH (Non-condensing)
    10W

V. Operation controls and Functions

Receiver



1.OUTPUT LED: The output status indicating lamp. This red LED illuminates when the TV plugs in with HDMI cable.

2.HDMI OUT: HDMI output port. This slot is where you connect the HDTV or monitor with HDMI cable.

3.ETHERNET: This slot provides Internet signal from transmitter or to transmitter.

4.RS232: Phoenix jack provides Serial port control signal from transmitter or to transmitter.

5.DC IN: Plug the 24V DC power supply into the unit.

6.IR RX: Chanel 2 IR Receiver. Connect with Wideband IR Rx.

7.IR TX: Chanel 1 IR Transmitter. Connect with Wideband IR Tx.

8.LINK LED: The connection status indicating lamp.

※Illuminate: The Transmitter and Receiver are in good connections

※Flashing: The Transmitter and Receiver are in poor connections

※Dark: The Transmitter and Receiver are in no connections

9.HD BaseT IN: Standard HD BaseT signal input port. Connect HD BaseT transmitter with a UTP cable following the standard of IEEE-568A or IEEE-568B.

10.DATA LED: The data status indicating lamp.

※Illuminate: The HDMI signal with HDCP.

※Flashing: The HDMI signal without HDCP.

※Dark: No HDMI signal.