

Thank you for purchasing this product. For optimum performance and safety, please read the instructions carefully and keep the manual for future reference. Please read below safety instructions carefully before installation and operation:

• Important Safety Instruction

1. Please pay attention to all the warnings and hints on this device.
2. Do not expose this unit to rain, moisture and liquid.
3. Do not put any stuff into the device.
4. Do not repair or open this device without professional people's guidance.
5. Make sure good ventilation openings to avoid product overheating damage.
6. Shut off power and make sure environment is safe before installation.
7. Do not plug-in/out the connected cables when it is in using.
8. Make sure the specification matched if using 3rd party DC adapters.

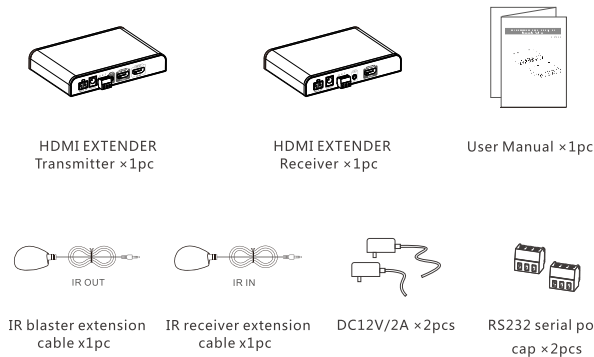
• Product Introduction

This Extender transmits and receives HDMI signal over any simple 2 conductor cables, such 2 conductor cables can be network cable, power line, coaxial cable, telephone wire etc. This extender includes a transmitter unit and a receiver unit, transmission distance is up to 300 meters. It supports multicast that one transmitter unit is capable of driving up to 4 receiver units using either 4 individual wire pairs over 300m each, or daisy chaining the receivers. IR passback for controlling the transmitter side source signal easily from the receiver side. In addition, it is with RS232 serial port that supports bi-directional RS232 pass back. This product is widely used in home theater system, media projects, entertainment and exhibition center.

• Features

1. Applies advanced HDBIT over IP technology
2. Transmits HDMI signal over any simple 2 conductor cables, it could be network cable, power line, coaxial cable, telephone wire etc
3. Supported resolution is up to full HD 1080p@60Hz
4. Transmission distance is up to 300 meters
5. IR passback for controlling the transmitter side source signal easily from the receiver side
6. Supports bi-directional RS232 pass back
7. Supports one way HDMI loop output
8. Plug and play, easy for installation
9. Supports multicast that one transmitter unit is capable of driving up to 4 receiver units

• Package Content

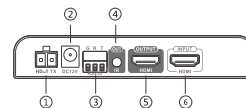


• Installation Requirements

1. HDMI source device (computer graphics card, DVD, PS3, HD monitoring equipment etc)
2. HDMI display device like SDTV, HDTV, projector with HDMI port
3. Any 2 conductor cables, like: network cable, power line, coaxial cable, telephone wire etc.

• Panel Description

1. HDMI EXTENDER TX (Transmitter)

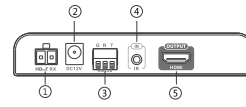


- ① Terminal Port (Any 2 conductor)
- ② Power input (DC12V)
- ③ Bi-directional RS232 pass back
- ④ IR signal output to connect with blaster extension cable
- ⑤ HDMI signal output
- ⑥ HDMI signal input

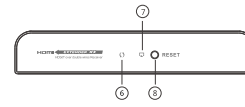


- ⑦ Data transmission light
- ⑧ Network link light
- ⑨ Reset button

2. HDMI EXTENDER RX (Receiver)



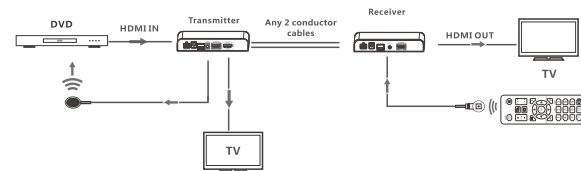
- ① Terminal Post (Any 2 conductor)
- ② Power input (DC12V)
- ③ Bi-directional RS232 pass back
- ④ IR signal input to connect with IR receiver extension cable
- ⑤ HDMI signal output
- ⑥ Data transmission light



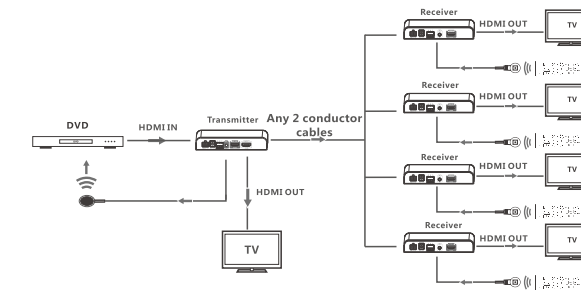
- ⑦ Network link light
- ⑧ Reset button

• Connections

1. **Unicast configuration:** Up to 30 meters transmission distance over Any 2 conductor cables



2. **Multicast configuration:** one transmitter to four receivers, realize extender & splitter function



Connection instruction

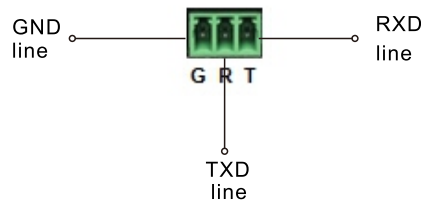
- 1) Connect source device to Transmitter unit (TX), and display device to Receiver unit (RX) via HDMI cables.
- 2) Connect Transmitter unit (TX) and Receiver unit (RX) via any 2 conductor cable.
- 3) Plug the power supply to Transmitter unit and Receiver unit (RX).

IR User Guide

- 1) IR blaster extension cable should plug-in the IR-out port of transmitter of HDMI extender, and the IR receiver extension cable should plug-in the IR-out port of the receiver of HDMI extender.
- 2) The emitter of IR blaster should be 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.

RS232 serial bi-direction pass back function

- 1) Different encoding mechanism can not mix-connect, the baud rate of RS232 serial of these transmitter unit and receiver unit, support 2400,4800, 9600, 19200, 28800, 38400, 57600, and 115200.
- 2) Line order
Check and make sure the RS232S serial line connect firmly and well, and make sure serial data line is connected correctly as below:
If the RS232 serial does not work by following above connection, please try to change the order of TXD line and RXD line.



3) Check baud rate

If you need to check the baud rate at last time, firstly, before power on, set the baud rate to 115200 on your serial port test tool . Then, power on, when the RS232 serial of product connects to serial port test tool, the software will read out the baud rate at present.
e.g.: software show information " Baud rate: 9600" , means 9600 is the current baud rate.

4) Set baud rate

For example: the current baud rate is 9600, but the baud rate of control equipment is 19200, so it needs to set the baud rate to 9600. At this time, in serial port tool, choose baud rate "9600" , then input command "set: 19200" in character format and send it out.

• FAQ

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

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

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

A: 1) please check if there is a HDMI signal input of transmitter.

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 transmitter to the receiver the required range, make sure connecting cable is well and Without interference.

2) Press "reset" button on the transmitter/receiver front panel, reset and reconnect.

• Specification

Items	Specifications
HDMI Signal	HDMI1.3, Compatible with HDCP1.3
Network bandwidth	18M bps
Support resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Audio format	PCM
Transmission distance	Transmission distance is up to 300 meters.
IR signal	Supports 20~60KHz IR devices
RS232	Supports Bi-directional RS232 pass back
Working Temperature	0°C ~ 60°C
Storage temperature	-20 ~ 70°C
Power Supply	DC12V/2A
Power Consumption	TX: 7.5W; RX: 7W
Dimensions	228(L)x125.4(W)x25(H)mm
Weight	210g*2pcs
Color	Black

Disclaimer

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HDbiT HDMI Extender over Any Two Conductor Cables

User Manual

