

## Important Safety Instruction

- Please pay attention to all the warnings and instructions for this device.
- Do not expose this unit to rain, moisture or liquid of any kind.
- Any attempt to open or repair this unit will void the warranty.
- Make sure you have proper ventilation to keep this product from overheating.
- Shut off power and make sure environment is safe before installation.
- Do not plug-in/out the connected cables when it is in use.
- Make sure the power specifications match, if using 3rd party DC adapters.

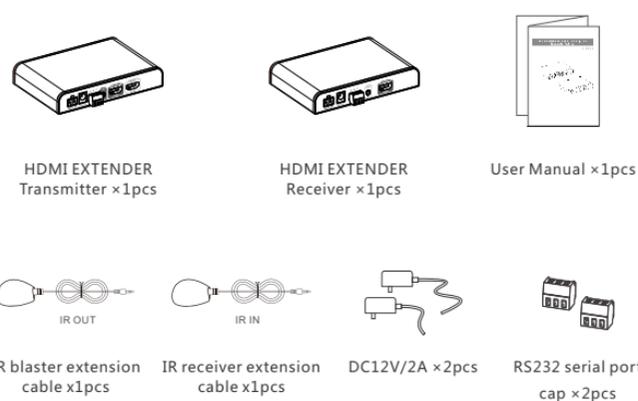
## Product Introduction

This Extender transmits and receives HDMI signals over any simple 2 conductor cable, (i.e. network cable, in-active power line, coaxial cable, telephone wire etc). This extender includes a transmitter unit and a receiver unit, and the transmission distance is up to 1000'. It supports multicast so that one transmitter unit is capable of driving up to 4 receiver units using either 4 individual wire pairs over 1000' each, or daisy chaining the receivers. IR pass-back for controlling the transmitter side source signal easily from the receiver side. In addition, this device features an RS232 serial port that supports bi-directional RS232 pass-back. This product is widely used in home theater systems, media projects, entertainment and exhibition centers.

## Features

- Transmits HDMI signal over any simple 2 conductor cable (i.e. network cable, in-active power line, coaxial cable, telephone wire, etc...).
- Supports resolutions up to full HD 1080p@60Hz
- Transmission distance is up to 1000'
- IR pass-back for controlling the transmitter side source signal easily from the receiver side
- Supports bi-directional RS232 pass-back
- Supports one way HDMI loop output
- Plug and play, for easy installation
- Supports multicast - 1 transmitter unit is capable of driving up to 4 receiver units

## Package Contents

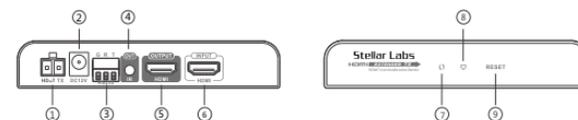


## Installation Requirements

1. HDMI source device (computer graphics card, DVD, PS3, HD monitoring equipment, etc.).
2. Display devices like SDTV, HDTV, projector with HDMI port
3. Any 2 conductor cables (for instance, network cable, in-active power cable, coaxial cable, and 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)

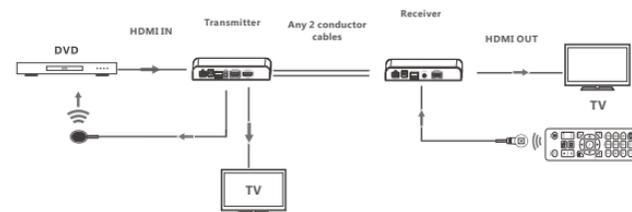


- ① Terminal Post (Any 2 conductor)
- ② Power input (DC12V)
- ③ Bi-directional RS232 pass-back
- ④ IR signal input to connect with IR receiver extension cable

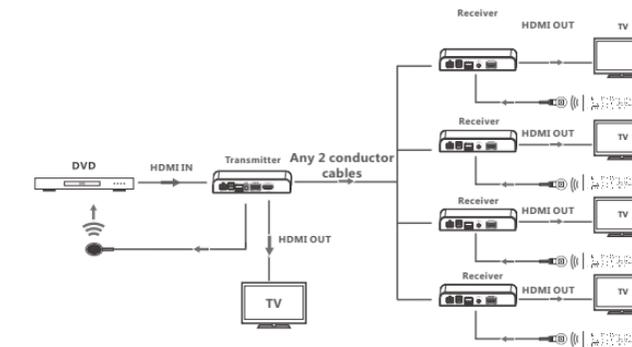
- ⑤ HDMI signal output
- ⑥ Data transmission light
- ⑦ Network link light
- ⑧ Reset button

## Connections

### 1. Uni-cast configuration: one transmitter to one receiver



### 2. Multi-cast configuration: one transmitter to four receivers



### Connection instructions:

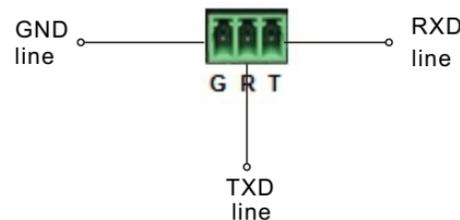
- 1) Connect source device to Transmitter unit (TX), and display device to Receiver unit (RX) via HDMI cables.
- 2) Connect Transmitter unit (TX) to the Receiver unit (RX) via any 2 conductor cable.
- 3) Plug the power supply into the Transmitter unit and the Receiver unit (RX).

## IR User Guide

- 1) Plug the IR blaster extension cable into the IR out port of the transmitter (TX). Then plug in the IR receiver extension cable into the IR-out port of the receiver (RX).
- 2) The IR emitter should be as close as possible to the IR receiver of the signal source. Use the IR controller of the signal source pointing towards the IR receiver (connected to the RX of HDMI extender), to control the source media control.

## RS232 Pass-back Feature

- 1) The baud rate on the transmitter and receiver must match one another. The baud rates supported on the RS232 ports are: 2400,4800, 9600, 19200, 28800, 38400, 57600, and 115200.
- 2) Check and make sure the RS232 serial line connects firmly, and make sure the serial data line is connected correctly as shown below (if the RS232 serial connection does not work after following the above directions, attempt to change the order of the TXD line and RXD line).



## FAQ

Q: TV displays "Waiting for connection"

A: Check if the power supply of transmitter and switcher (if used) is firmly connected.

Q: TV displays "Please check the transmitter input signal"

A: 1) Check if there is an HDMI signal input from the transmitter.

Q : Display not stable

A :1) Check the cable length to ensure it is no longer than 1000'  
2) Press "reset" button on the transmitter/receiver front panel, to 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	Up to 1000'
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	8.97(L)x5"(W)x1"(H)
Weight	7.4 oz. 2pcs
Color	Black

## Disclaimer

This product carries a limited 90 day warranty, which does not apply if the product has been damaged, deteriorates, malfunctions or fails from:improper installation, misuse, abuse, neglect, accident, tampering, modification of the product as originally manufactured by Stellar Labs® in any manner whatsoever, usage not aligned with product instructions or acts of nature such as damage caused by wind, lightning, ice or corrosive environments such as salt spray and acid rain. This Limited Warranty also does not apply if the product becomes unable to perform its' intended function in any way as a result of the television signal provider making any changes in technology or service. Should a failure be determined covered by the warranty, it will be the sole discretion of MCM Electronics to repair or replace the product. This warranty covers the product only, and does not include any additional product or expense incurred. No liability outside the product itself is implied.



HDMI Extender over Any Two Conductor Cables

User Manual

