HDMI Extender over 2 CAT5e with IR Installation Guide

Introducing the *HDMI Extender*

The *HDMI Extender over 2 CAT5e with IR* boosts your audio/video transmission distance up to 60m (200ft) in HDTV 1080i format. With two cost effective CAT5e/6 cables, users can readily extend an HDMI source such as a DVD player, Blu-ray Disc player, game console, PC, and any other TMDS compliant devices to a remote HDMI/DVI TV or LCD monitor. This cost effective solution provides flexibility for HDMI enabled devices to transmit high quality audio/video to greater distances at minimal cost.

Features and Benefits

- HDMI 1.3a and HDCP compliant
- Extends audio/video transmission from an HDMI source to an HDMI display over two economical CAT5e/6 cables
- Controls source devices from the remote side instantly
- Embedded IR control path
- Minimize cable skew with the adjustable 8-level equalization knob
- Supports distances up to 60m/200ft @ 720p/1080i or 40m/130ft @ 1080p

Package Contents

- HDMI transmitter (TX)
- HDMI receiver (RX)
- 1x Power adapter (5V, 2A)
- IR transmitter extension cable (90cm/3ft)
- IR receiver extension cable (90cm/3ft)
- Installation guide

Layout

Figure 1: Transmitter (front & back)

- HDMI In: connect to a HDMI source with an HDMI M-M cable (not included) here
- IR Blaster: this is the IR sending socket, connect the IR transmitter extension cable here
- A/V Signal: plug in a CAT5e/6 cable, links to the A/V Signal connector of the receiving unit
- CTRL Channel: plug in a CAT5e/6 cable, links to the CTRL Channel connector of the receiving unit

Figure 2: Receiver (front & back)

- HDMI Out: connect an HDMI display with an HDMI M-M cable (not included) here
- Signal Level: adjusts the equilization of the received signal from 0 (strongest) to 7 (weakest). It is recommended to switch from 0 to 7 to find the optimal visual experience
- IR Receiver: this is IR receiving socket, connect the IR receiver extension cable here
- A/V Signal: plug in a CAT5e/6 cable, links to the A/V Signal connector of the transmitting unit
- CTRL Channel: plug in a CAT5e/6 cable, links to the CTRL Channel connector of the transmitting unit
- +5V DC: connect to the included 5V power adapter

Figure 3: IR Transmitter

Figure 4: IR Receiver

Hardware Installation

1. Connect your HDMI source to the transmitter.
2. Connect the IR transmitter cable to the transmitting unit and point the emitter directly to the IR of the HDMI source.
3. Connect your HDMI display to the receiving unit.
4. Connect your CAT5e cables between the transmitting and receiving units. Make sure the cables are securely connected and not loose.
5. Connect the IR receiver cable to the receiver, and point the IR receiver directly to the IR of the HDMI display.
6. Plug the power adapter into the receiver, then plug the power adapter into a reliable power source.

> **Note**: the transmitter does not need a power adapter.

7. If needed, adjust the Signal Level switch from 0 - 7 (strongest - weakest) to find the optimal visual experience.

Notes

1. When transmitting non-HDCP compliant audio/video, you can use just one CAT5e/6 cable connected through A/V Signal.
2. All transmission distances in this manual are measured using CAT5e cable(s). Actual transmission length and quality of the received display depends on the quality of your CAT5e/6 cables.
3. To reduce EMI interference over long transmission distances, use shielded CAT5e/6 cables.
4. For resolutions greater than 1080i or 1280 x 1024, a CAT6 cable is recommended.