

Operating Instructions

HDMI & One Way Infra-Red Cat6 Extender UTP Balun



Overview

This HDMI & One Way Infra-Red Cat6 Extender UTP Balun is designed to extend HDMI signals over distances up to 70m across economical UTP cabling. Maximum resolution of 4K @ 60Hz 4:4:4 is achieved when used with Cat6/6a/7 type cables. One way infra-red control of source equipment is also possible using the included infra-red target and emitter. Includes transmitter, receiver, IR target, IR emitter and power supply.

Package Contents

1 x HDMI Transmitter
1 x HDMI Receiver
1 x IR TX Emitter
1 x IR RX Receiver
1 x 12V DC Adapter
1 x Mounting Ears
1 x User Manual

Features

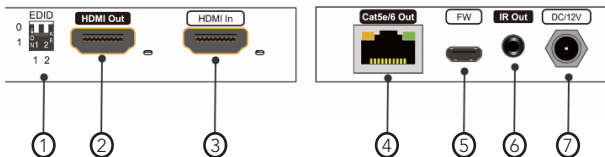
- Transmit up to 70m under 4K@60Hz YUV4:4:4
- 1x HDMI loop out on transmitter
- Supports EDID management
- Supports wide band IR Pass through
- HDMI audio sampling rate up to 192KHz, max LPCM 7.1 channel
- Supports S/PDIF and PCM2.0 analog audio extraction
- Supports Dolby True HD, PCM and DTS-HD master audio
- Micro USB port to upgrade new firmware
- POC "Power Over Cable". Only one power supply required per system
- Power from either Transmitter or Receiver end

Specifications

Operating Temperature Range	-5°C to +40°C
Operating Humidity Range	5 to 90% RH (no condensation)
Connectors On Transmitter	2 x HDMI (1 x HDMI input, 1 x HDMI loop output)
	1 x DC Power Socket
	1 x IR Emitter (for IR TX)
Connectors On Receiver	1 x HDMI Input
	1 x IR Target (for RX cable)
Resolution Outputs	4k@60hz YUV4:4:4 / 4k@30HZ / 1080p / 1080i / 720p / 576p / 480p
Supported Audio Format	DTS-HD Master Audio, Dolby True HD, LPCM7.1, PCM etc.
Output Video Signal	HDMI
Transmission Distance	up to 70m under 4K@60Hz YUV4:4:4
Power Supply	12V/2A DC Power Supply
Power Consumption	3.8W (max)
Weight	TX: 305g
	RX: 305g
Dimensions	TX: 75.8L × 72.2W × 18H mm
	RX: 75.8L × 72.2W × 18H mm

Operation Controls and Functions

Transmitter Panel



- ① EDID Switch
- ② HDMI Loop Out Port
- ③ HDMI Input Port
- ④ Cat5e/6 Output Port
- ⑤ Firmware Update Port
- ⑥ IR Out Port
- ⑦ DC 12V Power Input

Note: The transmitter has default EDID and copy EDID functions. Default EDID including 4K@60Hz and 1080p@60Hz.

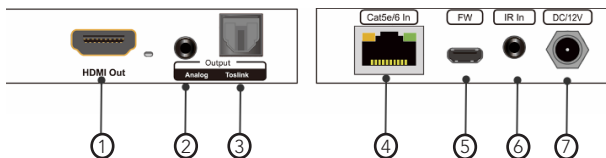
Copy EDID including to copy the near end or far end TV using the 2 Pin DIP switch.

Up dial stands for 0, down dial stands for 1.

Different digit combinations have different EDID effects according to the following table:

00	Default 4k60YUV4:2:0-2CH	01	Copy EDID from far end display
10	Copy EDID from loop out display	11	Default 4k60YUV4:4:4-5.1CH

Receiver Panel



- | | |
|--------------------------|------------------------|
| ① HDMI Out Port | ⑤ Firmware Update Port |
| ② Analog Stereo Out Port | ⑥ IR Input Port |
| ③ Toslink Out Port | ⑦ DC 12V Power Input |
| ④ Cat5e/6 Input Port | |

Connection Steps

1. Connect a single source, such as a Blu-Ray player or gaming console, to the HDMI input on the transmitter.
2. Connect a single display, such as an HDTV or HD projector, to the HDMI loop output on the transmitter.
3. Connect a single display, such as a HDTV or HD projector, to the HDMI output on the receiver.
4. Connect a single Cat5e/6/7 cable to both the transmitter and receiver.
5. Plug in the IR-RX cable and IR-TX cable to the IR jack port on both the transmitter and receiver.
6. Power on the transmitter first, then power on the HDMI source and sync.

Connection Diagram

