



HDMI ARC & Optical Audio over CAT Extender 150 meters

VLEX-HAACT150-TR



User Manual

VER 1.1

Thank you for purchasing this product

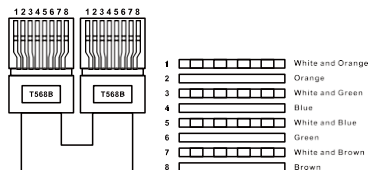
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

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

Caution

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



Direct interconnection method

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1. Introduction

Experience seamless audio transmission with our Audio Extender, capable of transmitting HDMI ARC or S/PDIF audio signals over impressive distances of up to 150m/492ft (96kHz) or 90m/295ft (192kHz, for ARC only) using a single CAT cable.

Featuring CEC pass-through functionality between the HDMI ARC input port and ARC output port, this extender ensures seamless handshake for ARC transmission.

For TVs lacking ARC functionality, the extender offers an independent S/PDIF audio pass-through channel, allowing transmission of S/PDIF audio from the S/PDIF IN port of the transmitter to the S/PDIF OUT port of the receiver.

Say goodbye to audio limitations and enjoy a hassle-free plug and play solution for transmitting HDMI ARC and S/PDIF audio from your HDTV back to an amplifier, AVR, or multi-room audio system.

2. Features

- ☆ Extends HDMI ARC audio signal up to a distance of 150m/495ft (96kHz) or 90m/295ft (192kHz) over a single CAT cable
- ☆ Extends S/PDIF audio signal up to a distance of 150m/495ft (96kHz) over a single CAT cable
- ☆ Audio formats support: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
- ☆ Supports CEC pass-through when HDMI ARC mode is enabled
- ☆ Plug-and-play
- ☆ Small compact size
- ☆ Ultra-low jitter and high-fidelity design

3. Package Contents

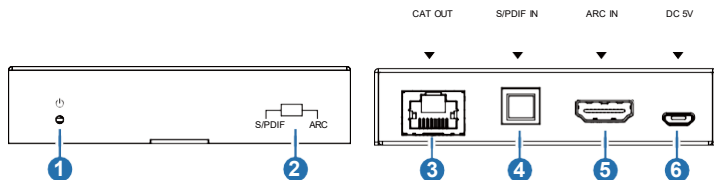
- ① 1 × HDMI Audio Extender (Transmitter)
- ② 1 × HDMI Audio Extender (Receiver)
- ③ 2 × USB Shielded Cable (USB-A to Micro USB, 1m)
- ④ 2 × 5V/1A Power Adapter
- ⑤ 1 × User Manual

4. Specifications

Technical	
Supported Audio Formats	PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
Transmission Distance and Sample Rates	ARC audio: 150m/495ft - 96kHz, 90m/295ft - 192kHz S/PDIF audio: 150m/495ft - 96kHz
ESD Protection	Human-body Model: $\pm 8\text{kV}$ (Air-gap discharge), $\pm 4\text{kV}$ (Contact discharge)
Connection	
Transmitter	Input port: 1 x S/PDIF IN [Optical Audio Jack] 1 x ARC IN [HDMI Type A, 19-pin female] 1 x Micro-USB Output port: 1 x CAT OUT [RJ45]
Receiver	Input port: 1 x CAT IN [RJ45] 1 x Micro-USB Output port: 1 x S/PDIF OUT [Optical Audio Jack] 1 x ARC OUT [HDMI Type A, 19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter/Receiver: 90mm (W) \times 72mm (D) \times 20mm (H)
Weight	Transmitter/Receiver: 175g
Power Supply	DC 5V/1A
Power Consumption (Max)	Transmitter: 0.35W Receiver: 0.7W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

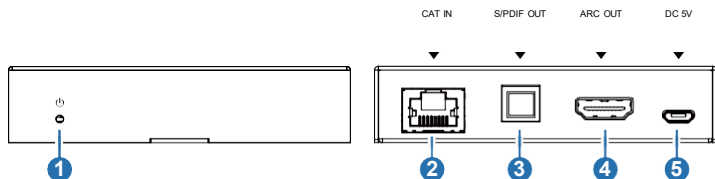
Operation Controls and Functions

4.1 Transmitter



No.	Name	Function Description
1	Power LED	When the transmitter is powered on, the red power LED will be on.
2	S/PDIF /ARC switch	Use this switch to select audio pass-through channel. Switch to “S/PDIF”: The S/PDIF OUT port outputs the optical audio from the S/PDIF IN port of the transmitter. Switch to “ARC”: The ARC OUT port outputs the HDMI ARC audio from the ARC IN port of the transmitter.
3	CAT OUT	Connect to the CAT IN port of the receiver with CAT6 cable.
4	S/PDIF IN	Optical fiber audio input port, connected to an optical digital audio source device with Optical Toslink cable.
5	ARC IN	HDMI audio signal input port, connected to a TV with ARC function, used for ARC audio and CEC pass-through.
6	DC 5V	Micro USB power input port.

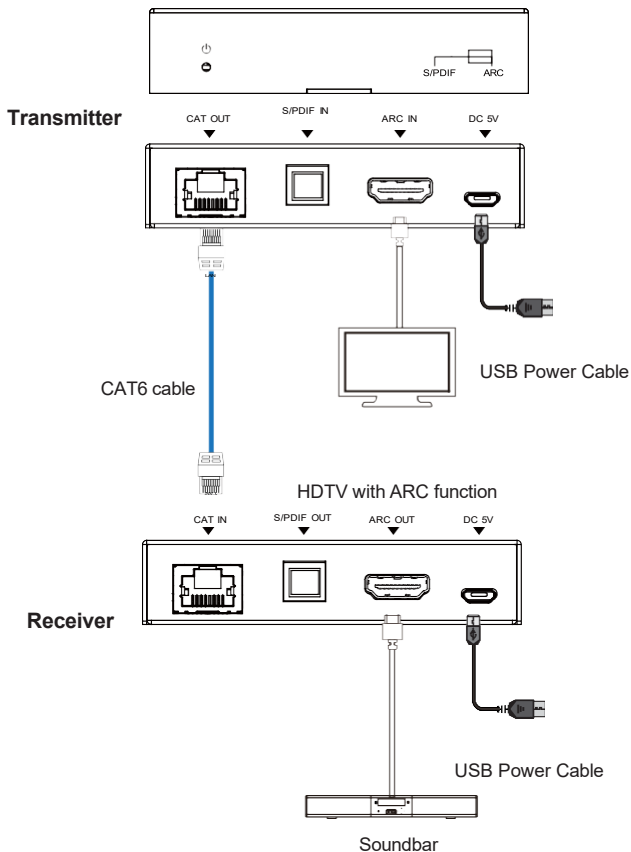
4.2 Receiver



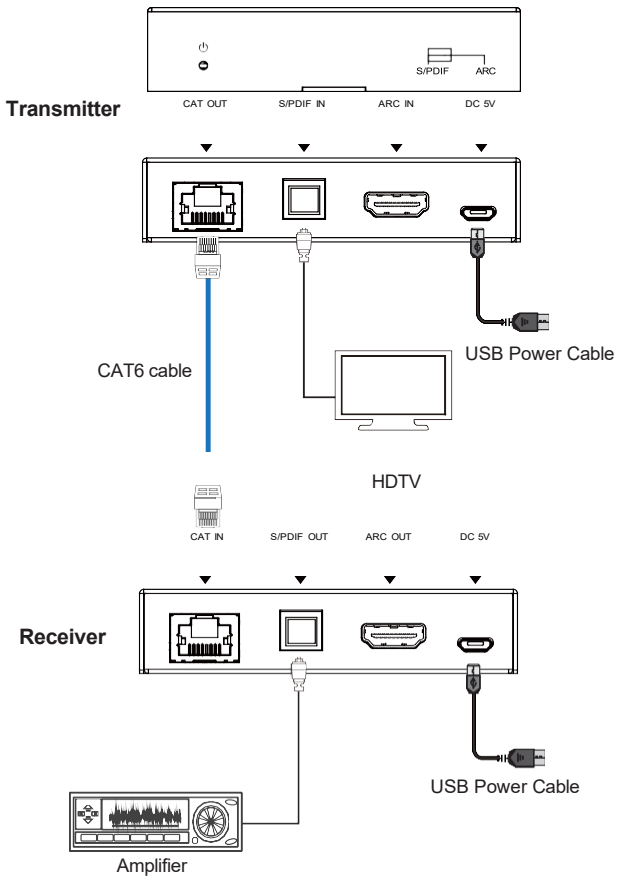
No.	Name	Function Description
1	Power LED	When the receiver is powered on, the red power LED will be on.
2	CAT IN	Connect to the CAT OUT port of the transmitter with CAT6 cable.
3	S/PDIF OUT	Optical fiber audio output port, connected to amplifier or speaker with Optical Toslink cable.
4	ARC OUT	HDMI audio signal output port, connected to HDMI audio device with ARC function such as a soundbar.
5	DC 5V	Micro USB power input port.

5. Application Example

Situation 1: ARC Mode



Situation 2: S/PDIF Pass-through Mode





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