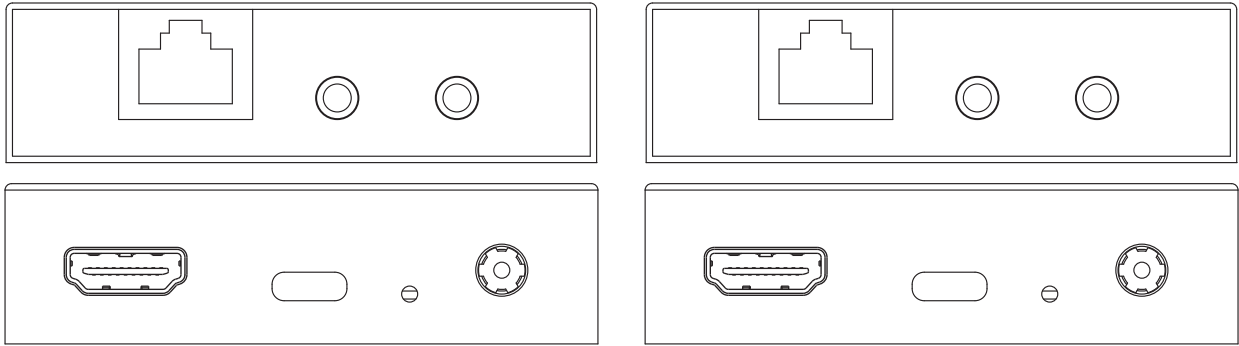


USER MANUAL



HDMI eARC Audio Extender over Cat5e/6/6A, up to 50m

P/N 48165

Thank You for Purchasing This Product

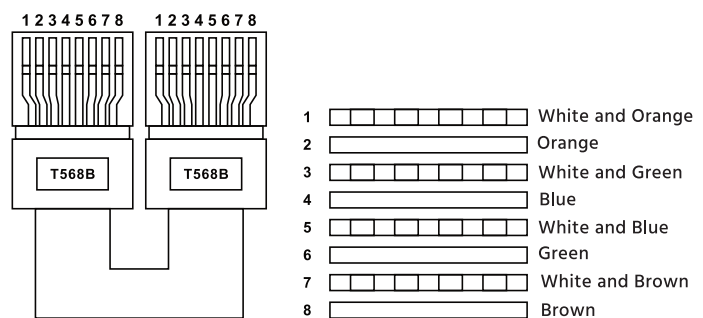
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

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

This Audio Extender can transmit HDMI eARC/ARC audio signals over a single CAT5e/6 cable. The transmission distance is up to 50m/164ft. It supports CEC pass-through and bi-direction IR pass-through.

This is a fantastic plug and play solution for sending HDMI eARC/ARC audio from an HDTV to an amplifier, AVR or multi-room audio system.

2. Features

- Extend HDMI eARC/ARC audio signal up to a distance of 50m/164ft
- Support audio formats:
 - eARC:** LPCM 2.0/5.1/7.1CH, DD, DD+, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos
 - ARC:** LPCM 2.0CH, Dolby 5.1CH, DTS 5.1CH
- Support CEC pass-through
- Support bi-direction IR pass-through
- Compact design for easy and flexible installation

3. Package Contents

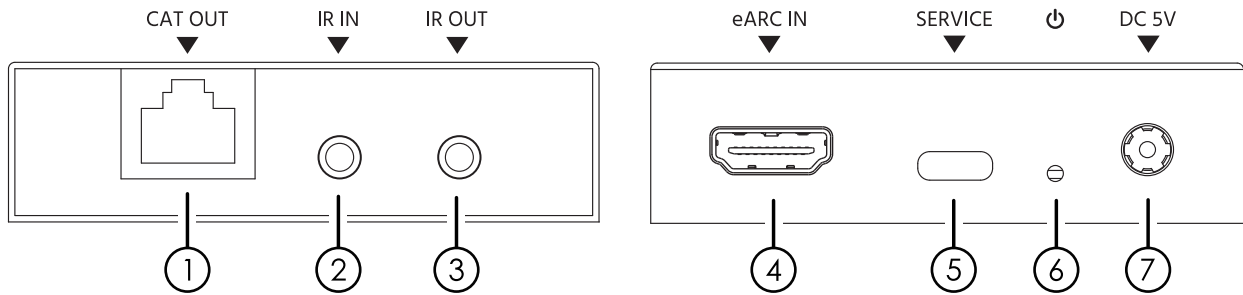
- 1 × HDMI eARC Audio Extender (Transmitter)
- 1 × HDMI eARC Audio Extender (Receiver)
- 1 × 5V IR Blaster Cable (1.5m)
- 1 × 5V IR Wideband Receiver Cable (1.5m)
- 2 × 5V/1A Multinational Power Supply
- 1 × User Manual

4. Specifications

Technical	
Transmission Distance	50m/164ft over CAT5e/6 cable
Audio Formats	eARC: LPCM 2.0/5.1/7.1CH, DD, DD+, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos ARC: LPCM 2.0CH, Dolby 5.1CH, DTS 5.1CH
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter Ports	Input: 1 × IR IN [3.5mm audio jack] 1 × eARC IN [HDMI] Output: 1 × CAT OUT [RJ45] 1 × IR OUT [3.5mm audio jack] Control: 1 × SERVICE [USB-C, upgrade port]
Receiver Ports	Input: 1 × IR IN [3.5mm audio jack] 1 × CAT IN [RJ45] Output: 1 × eARC OUT [HDMI] 1 × IR OUT [3.5mm audio jack] Control: 1 × SERVICE [USB-C, upgrade port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter/Receiver: 68mm [W] × 74mm [D] × 20mm [H]
Weight	Transmitter/Receiver: 142g
Power Supply	Input: AC 100-240V 50/60Hz; Output: DC 5V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	Transmitter: 0.95W (Max); Receiver: 1.6W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 90% relative humidity, non-condensing

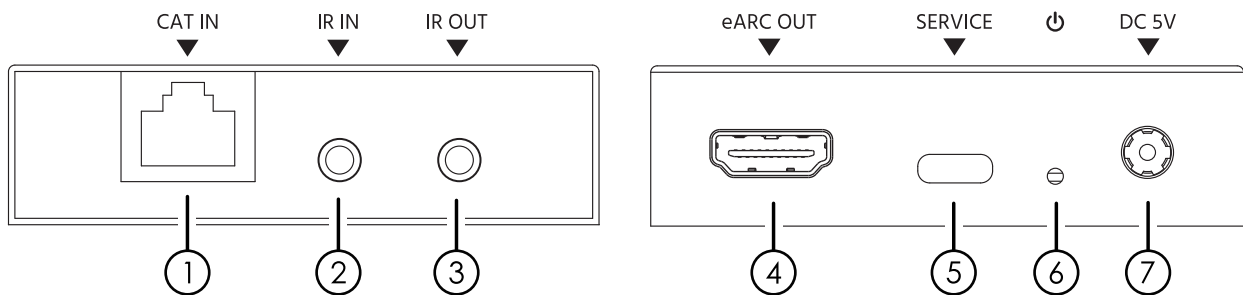
5. Operation Controls and Functions

5.1 Transmitter



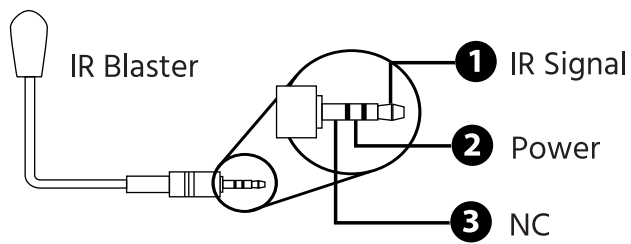
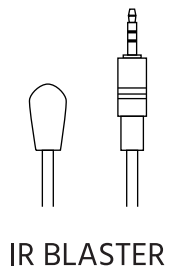
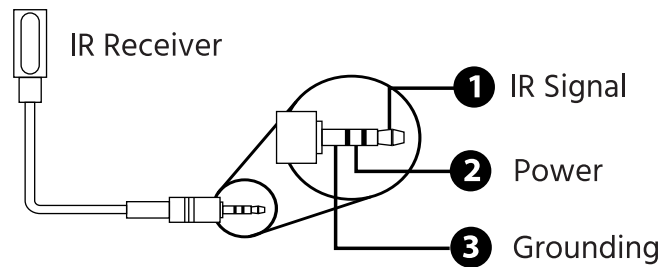
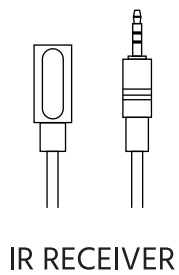
No.	Name	Function Description
1	CAT OUT	Connect to the CAT IN port of the receiver with CAT cable.
2	IR IN	IR signal input port, connected to the 5V IR wideband receiver cable.
3	IR OUT	IR signal output port, connected to 5V IR blaster cable.
4	eARC IN	HDMI audio signal input port, connected to a TV with eARC/ARC port. Used for eARC/ARC audio channel and CEC pass-through.
5	SERVICE	USB-C port, used for firmware upgrade and debugging.
6	Power LED	When the transmitter is powered on, the green power LED will be on.
7	DC 5V	DC 5V/1A power input port.

5.2 Receiver

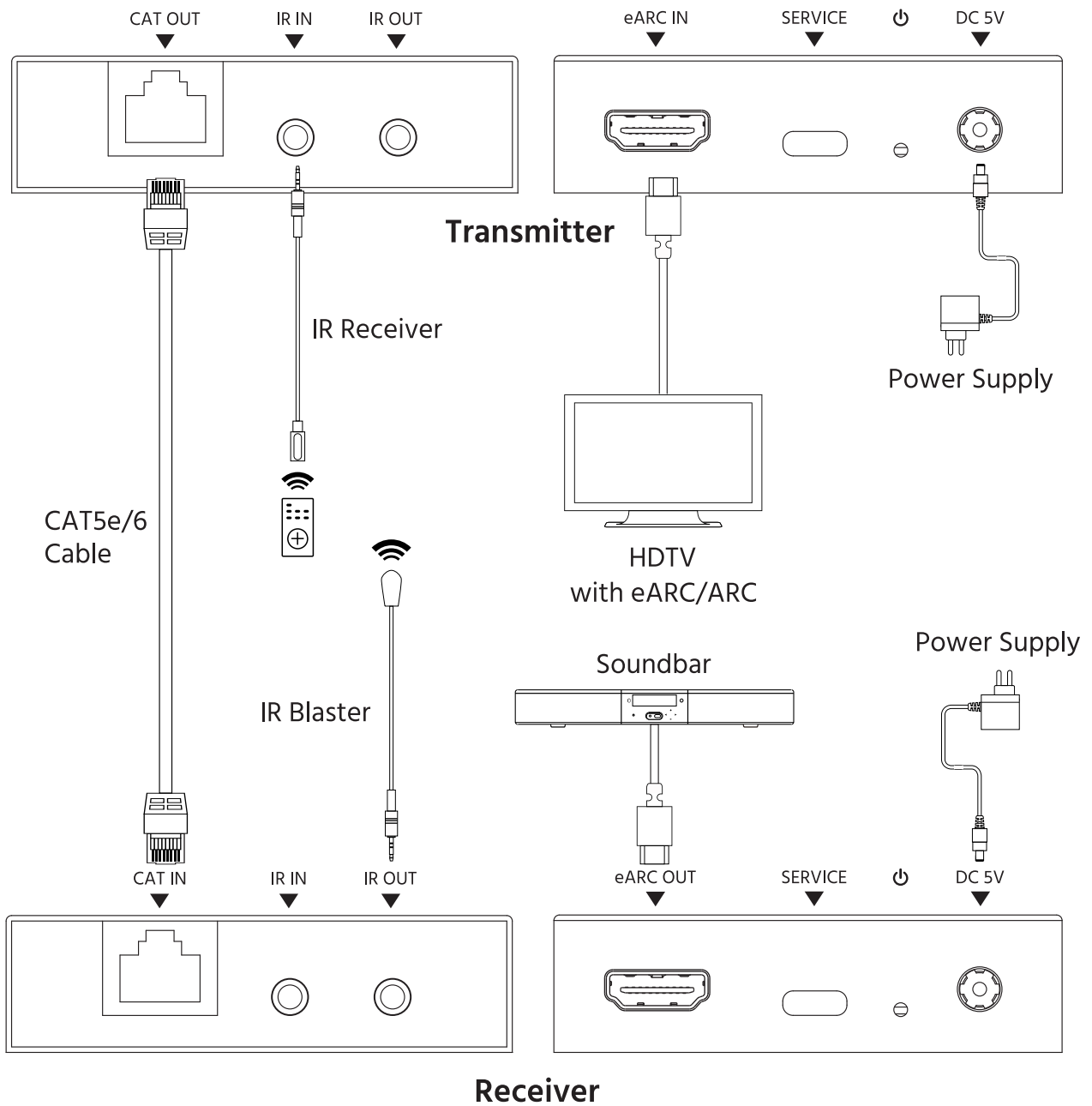


No.	Name	Function Description
1	CAT IN	Connect to the CAT OUT port of the transmitter with CAT cable.
2	IR IN	IR signal input port, connected to the 5V IR wideband receiver cable.
3	IR OUT	IR signal output port, connected to 5V IR blaster cable.
4	eARC OUT	HDMI audio signal output port, connected to HDMI audio device such as soundbar or amplifier.
5	SERVICE	USB-C port, used for firmware upgrade and debugging.
6	Power LED	When the receiver is powered on, the green power LED will be on.
7	DC 5V	DC 5V/1A power input port.

6. IR Pin Definition



7. Application Example



HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

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Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Manufacturer's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.