
Quick Operation Guide

AR-40-102

18Gbps HDMI V2.0 4K 60Hz Extender Set over CAT6

The AR-40-102 is a great point-to-point extender set for HDMI V2.0 and IR signals; this kit supports 4K/UHD video @ 60 Hz with 4:4:4 Chroma sampling, as well as HDMI data rates up to 18Gbps, HDCP 2.2 compliant; It provides HDMI transmission up to 230 feet (70 meters) for 4K@60Hz 4:4: 4 and 262 feet (80 meters) for 1080p over single CAT 6 cable. It supports video resolution down-scaling, the 4K input can be automatically downscale to 1080p output for compatibility with 1080p display.

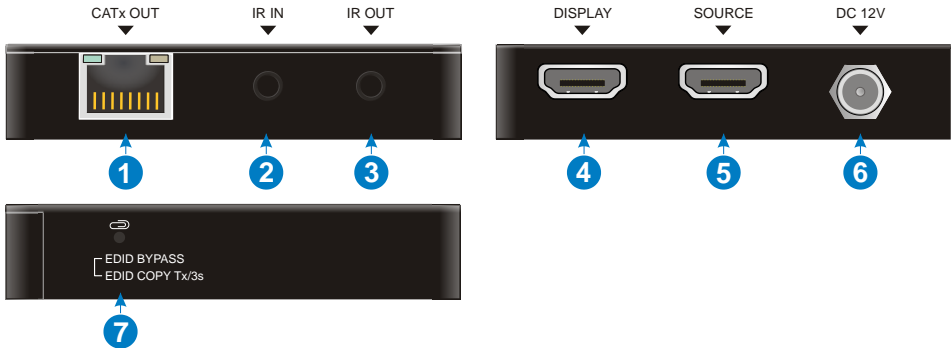
Features

- Supports HDMI V2.0, up to 4K@60Hz 4:4:4, HDR 10, 18G, HDCP 2.2.
- Extends 4K up to 230 feet (70m) or 1080p up to 262 feet (80m) over a single CAT6 cable.
- HDMI loop out on transmitter.
- Bi-directional IR pass-through.
- Supports video resolution down-scaling, the 4K input can be automatically degraded to 1080p output on receiver for compatibility with legacy 1080p display device.
- Features visually lossless compression with no latency.
- Smart EDID management.
- Compact design, easy to install and simple to operate.

Packing List

- 1x Transmitter (Tx)
- 1x Receiver (Rx)
- 1x IR Receiver
- 1x IR Emitter
- 2x Velcro Strips
- 1x Power Adaptor (12V DC 1A)
- 1x User Manual

Transmitter Panel Description



1. **CAT6 OUT:** RJ45 port to connect the CAT6 IN port of receiver by CAT6 cable. It supports 12V PoC to power the receiver. The orange LED illuminates when there is a valid HDMI signal input. The green LED illuminates when power is applied.
2. **IR IN:** 3.5mm mini jack to connect IR receiver for IR pass-through.
3. **IR OUT:** 3.5mm mini jack to connect IR emitter for IR pass-through.
4. **DISPLAY:** Type-A female HDMI port to connect HDMI display device.
5. **SOURCE:** Type-A female HDMI port to connect HDMI source device.
6. **DC 12V:** DC connector for the power adapter connection.

7. EDID Management:

- **EDID BYPASS:** Press the button with paper clip or other sharp tool to learn the EDID from the remote display connected to the Receiver's HDMI out.
- **EDID COPY Tx/3s:** Press and hold the button for 3 seconds to copy the EDID from the local display connected to the Transmitter's HDMI out.
- **DEFAULT:** Factory default, the source device learns EDID from the TV which has the lowest resolution. Press and hold the button while the product is in turned-off period, and then release the button after 6 seconds of power on can restore the default setting.

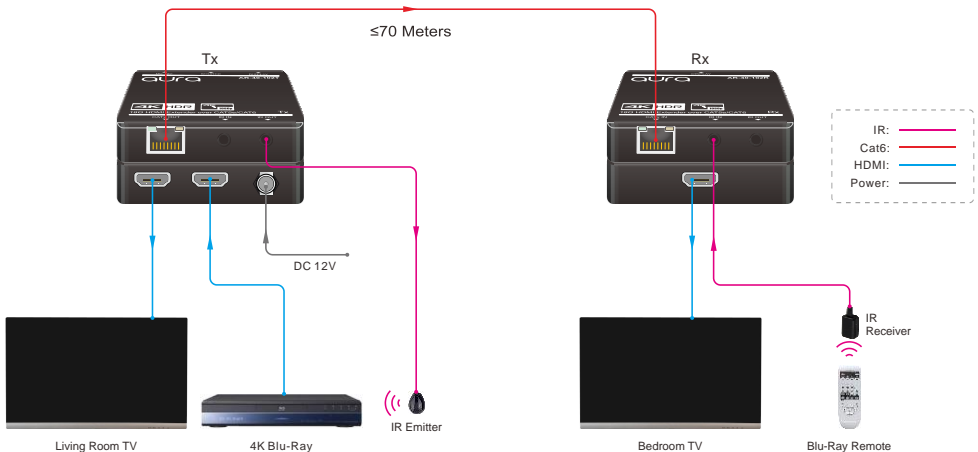
Note: If the standard resolution of the local display is lower than the receiving display, the unit will output the video with the lower resolution to ensure video can be shown on both displays.

Receiver Panel Description



1. **DISPLAY:** Type-A female HDMI port to connect HDMI display device.
2. **CAT6 IN:** RJ45 port to connect the CAT6 OUT port of transmitter by CAT6 cable. It supports 12V PoC and the receiver can be powered from the transmitter. The orange LED illuminates when there is a valid HDMI signal input. The green LED illuminates when power is applied.
3. **IR IN:** 3.5mm mini jack to connect IR receiver for IR pass-through.
4. **IR OUT:** 3.5mm mini jack to connect IR emitter for IR pass-through.

Connection Diagram



Specifications

| Transmitter | |
|-----------------------|--|
| Input | (1) SOURCE |
| Input Connector | (1) 19-pin type-A female HDMI |
| Output | (1) DISPLAY, (1) CAT6 OUT |
| Output Connector | (1) 19-pin type-A female HDMI, (1) RJ45 |
| Control | (1) IR IN, (1) IR OUT |
| Control Connector | (2) 3.5mm mini jacks |
| Receiver | |
| Input | (1) CAT6 IN |
| Input Connector | (1) RJ45 |
| Output | (1) DISPLAY |
| Output Connector | (1) 19-pin type-A female HDMI |
| Control | (1) IR IN, (1) IR OUT |
| Control Connector | (2) 3.5mm mini jacks |
| General | |
| Video Resolution | Up to 4K@60Hz 4:4:4, HDR 10 |
| HDMI Audio Format | Supports LPCM 2ch, LPCM 5.1ch, LPCM 7.1ch, Dolby Digital 2ch, Dolby Digital 5.1ch, DTS 2ch, DTS 5.1ch, DTS 96/24 5.1ch. |
| Transmission Distance | 4K/1080p ≤ 70 meters (230ft) <i>Note that the CAT6 cable length should not be less than 15 meters for best video output..</i> |
| HDMI Version | HDMI V2.0 |
| HDCP Version | HDCP 2.2 compliant. (The HDCP of output follows the HDCP version of display device.) |
| EDID | EDID management |
| Power Supply | Input: 100VAC~240VAC, 50/60Hz; Output: 12VDC 1A |
| Power Consumption | 4W (Max) |
| Operation Temperature | -5~55°C |
| Storage Temperature | -25~70°C |
| Relative Humidity | 10%-90% |
| Dimensions (W*H*D) | 80mm x 16.8mm x 80mm |
| Net Weight | Tx/Rx: 70g |

Note: The extender set does not support HBR audio.

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