



4K HDMI Extender

TRI-AVC-DWT-5031



Product Overview

TRI-AVC-DWT-5031 can extend HDMI signal up to 33000 feet / 10 km (over single-mode fiber cable). It supports video resolution up to 4K2K@60Hz 4:4:4. The transmitter supports loop output, audio embedding, and EDID management function. The receiver supports audio extracting function. In addition, the extender supports bidirectional IR control and RS-232 signal pass-through, allowing easy control of the display device from the signal source side or control the signal source device on the display side. TRI-AVC-DWT-5031 offers ideal solutions for homes, offices, digital entertainment centers, control centers, conference rooms, schools, and corporate training environments, where HDMI source and transmission over long distance is required.



4K2K@60Hz 4:4:4



Local Video & Audio
Sharing

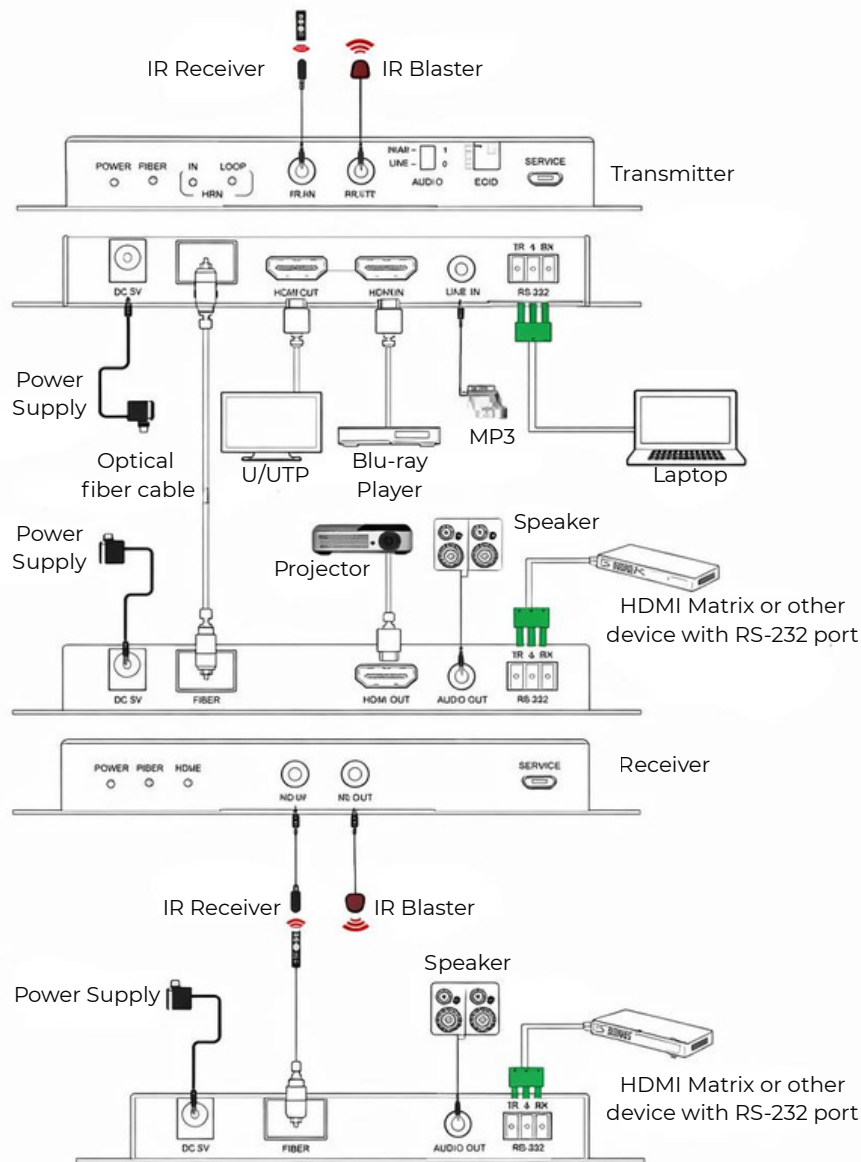


Dolby True
HD

Key Features

- HDMI 2.0b, HDCP 2.2 and DVI 1.0 compliant
- Support 18Gbps video bandwidth
- Video resolution up to 4K2K@50/60Hz 4:4:4
- HDMI audio formats:
LPCM2.0 / 5.1 / 7.1CH, Dolby Digital/Plus/EX,
Dolby True HD, DTS, DTS-ES, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- Support 3D and HDR format video (does not support CEC control)
- Transmission distance up to 33,000 feet / 10 km over single-mode fiber cable
- Supports bi-directional IR control, RS-232 pass-through, and EDID management for simple control
- Transmitter supports HDMI loop output (local video and audio sharing)
- Receiver supports audio extracting output
- Compact design for easy and flexible installation

Connection Diagram



Product specification

HDMI Compliance

HDMI 2.0b

HDCP Compliance

HDCP 2.2

Video Bandwidth

18 Gbps

Video Resolution

Up to 4K2K@60Hz 4:4:4

Color Depth

8 / 10 / 12-bit

Transmission Distance

Up to 33,000 feet / 10 km (single-mode fiber cable)

IR Frequency

20KHz – 60KHz

Color Space

RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0

HDMI Audio Formats

LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-ES, DTS-96/24, DTS-HD Master Audio, DSD

Product specification

RS-232 Baud Rate

4800 – 115200 bps

ESD Protection

Human body model $\pm 8\text{kV}$ (Air-gap discharge), $\pm 4\text{kV}$ (Contact discharge)

Housing

Black metal enclosure

Dimensions

134 mm (W) × 88 mm (D) × 18 mm (H)

Weight

285 g

Power Supply

DC 5V / 1A (US/EU standards, CE/FCC/UL certified)

Power Consumption

3.85 W (Max.)

Input (Transmitter)

1 × HDMI IN (Type-A, 19-pin female)

1 × LINE IN (3.5 mm stereo mini-jack)

1 × IR IN (3.5 mm stereo mini-jack)

1 × RS-232 (3.5 mm Phoenix connector)

1 × SERVICE (Micro USB, update port)

Output (Receiver)

1 × HDMI OUT (Type-A, 19-pin female)

1 × OPTICAL (S/PDIF, Toslink)

1 × IR OUT (3.5 mm stereo mini-jack)

1 × RS-232 (3.5 mm Phoenix connector)