

EX-HT2-403-10

18Gbps HDMI over HDBaseT Extender with ARC, Audio Extraction, IR, RS-232, CEC & PoC (40m 4K / 70m 1080p)



> Product Description

The Netvio EX-HT2-403-10 is a professional HDMI over HDBaseT extender engineered for high-performance AV distribution. Supporting 4K60 4:4:4 video with HDR10 and Dolby Vision up to 40m, or 1080p up to 70m, it delivers exceptional clarity and reliability over a single Cat6/6a cable.

Designed with ARC (Audio Return Channel) for seamless soundbar and AVR integration, plus local audio extraction on the transmitter, it ensures flexible audio routing options.

With bi-directional IR, RS-232, CEC pass-through, PoC power sharing, and compact metal enclosures with mounting ears, the EX-HT2-403-10 provides installers with a versatile, robust, and space-saving solution for both residential and commercial environments.

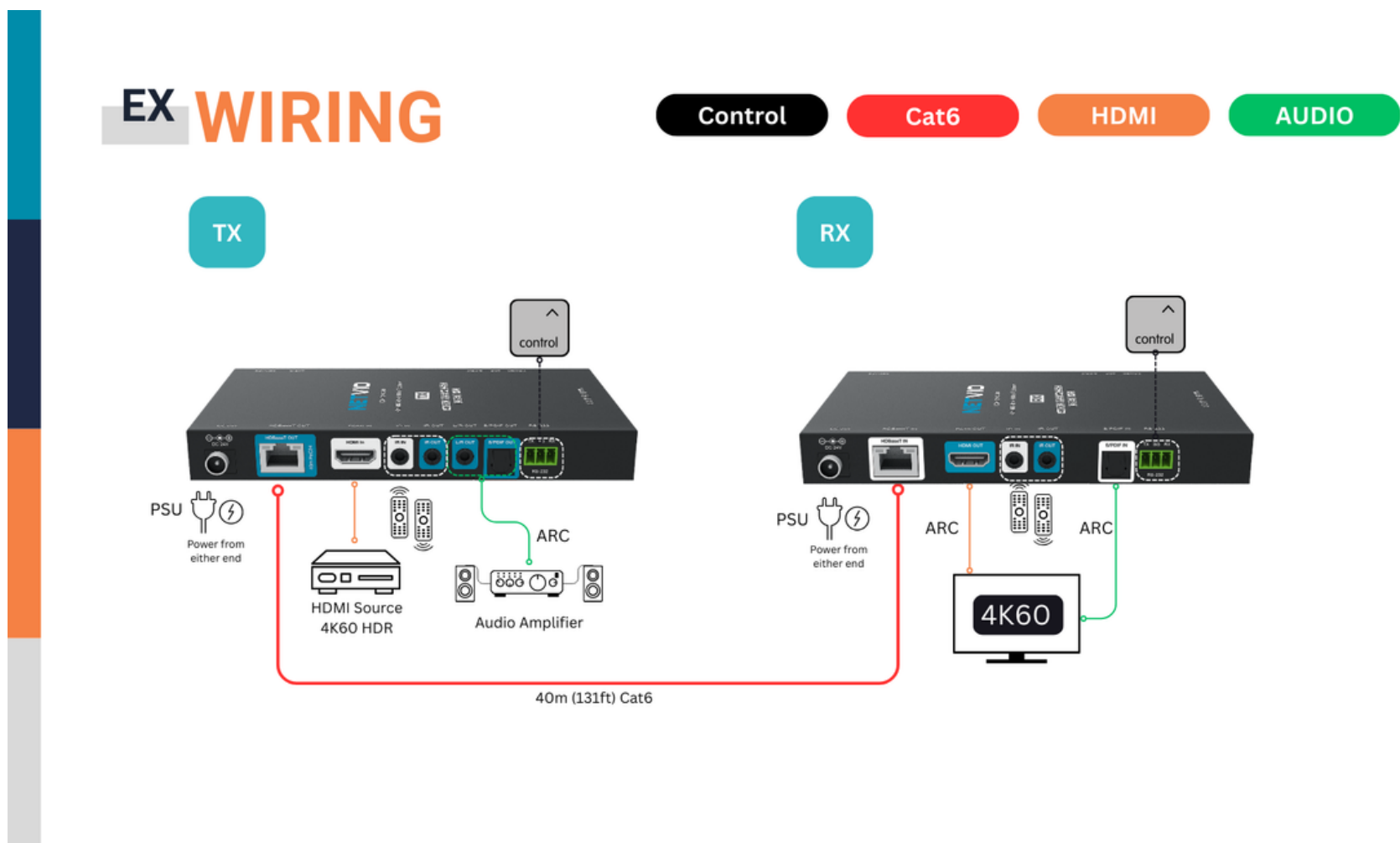
> Product Features

- HDMI 2.0b & HDCP 2.2 compliant
- Supports resolutions up to 4K60Hz 4:4:4 with HDR10 and Dolby Vision
- Transmission up to 40m at 4K / 70m at 1080p over Cat6/6a
- ARC (Audio Return Channel) – routes TV audio back via SPDIF or L/R analog outputs
- Local audio extraction from the transmitter for flexible system integration
- Bi-directional IR, RS-232, and CEC pass-through for full control compatibility
- PoC (Power over Cable) – one power supply powers both units
- Compact metal enclosure with mounting hardware included
- Status LEDs for ARC, SPDIF, and signal monitoring

> Specifications

- **Video**
 - Compliance: HDMI 2.0b, HDCP 2.2 / 1.x, DVI 1.0
 - Bandwidth: 18Gbps
 - Resolutions:
 - 4K@60Hz 4:4:4 (8-bit)
 - 4K@60Hz 4:2:0 (10/12-bit)
 - 4K@30Hz 4:4:4
 - 1080p, 1080i, 720p, 480p
 - PC resolutions up to 1920×1200
 - Color Depth: 8/10/12-bit (varies by resolution)
 - Color Space: RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
 - HDR Support: HDR10, HDR10+, Dolby Vision
- **Audio**
 - HDMI: PCM 2.0/5.1/7.1, Dolby Digital/Plus/EX/TrueHD, DTS, DTS-HD Master Audio, DSD
 - SPDIF (Optical): LPCM 2.0, Dolby Digital/Plus, DTS
 - Analog L/R: PCM 2.0 (mutes when ARC active)
- **Extension Distance**
 - 40m (131ft): 4K@60Hz 4:4:4 over Cat6/6a
 - 70m (230ft): 1080p60 over Cat6/6a
- **Connectivity**
 - **Transmitter (TX):**
 - 1× HDMI In (Type A, 19-pin female)
 - 1× HDBT Out (RJ45)
 - 1× SPDIF Out (Optical)
 - 1× L/R Out (3.5mm stereo mini-jack)
 - Control: 1× IR In, 1× IR Out, 1× RS-232 (Phoenix), 1× Micro-USB (Service)
 - **Receiver (RX):**
 - 1× HDBT In (RJ45)
 - 1× HDMI Out (Type A, 19-pin female)
 - 1× SPDIF In (Optical)
 - Control: 1× IR In, 1× IR Out, 1× RS-232 (Phoenix), 1× Micro-USB (Service)
- **General**
 - PoC (Power over Cable): Yes, only one unit requires DC 24V/1A supply
 - LED Indicators: Power, ARC, SPDIF, link and HDCP status
 - Power Supply: AC 100–240V, 50/60Hz input → DC 24V/1A output (locking connector)
 - Power Consumption: 13W (max)
- **Mechanical**
 - Enclosure: Metal with mounting ears, black finish
 - Dimensions (W × D × H):
 - 165 × 88.3 × 20 mm
 - 6.50" × 3.47" × 0.79"
 - Weight:
 - Transmitter: 170 g / 0.37 lbs
 - Receiver: 165 g / 0.36 lbs
- **Environmental**
 - Operating Temperature: 0–40°C / 32–104°F
 - Storage Temperature: –20–60°C / –4–140°F
 - Humidity: 20–90% RH (non-condensing)
 - ESD Protection: ±8kV air, ±4kV contact

> Wiring Diagram



> What's Included

- 1 × HDMI over HDBaseT Transmitter
- 1 × HDMI over HDBaseT Receiver
- 1 × IR Blaster Cable (1.5 m)
- 1 × IR Receiver Cable (1.5 m)
- 1 × 24V / 1A Locking Power Adapter
- 2 × 3-pin Phoenix Connectors
- 4 × Mounting Ears + 8 × Screws
- User information

> A&E Description

Architects & Engineers Specification – Netvio EX-HT2-403-10

The HDMI extender shall transmit digital video up to 4K60 4:4:4 with HDR10+, Dolby Vision, and HLG, together with multi-channel HDMI audio, ARC, Ethernet LAN, bi-directional IR, and RS-232 control over a single Cat6/6a cable. Maximum extension distance shall be 70 meters at 4K60.

The system shall consist of a transmitter and receiver set, both housed in compact metal enclosures with mounting hardware provided. The transmitter shall support local audio extraction via stereo analog and optical SPDIF outputs. The receiver shall support ARC (Audio Return Channel), allowing TV audio to return to the transmitter with selectable output via SPDIF or L/R analog.

The extender shall provide HDBaseT LAN pass-through, enabling Ethernet connectivity at the remote display location. The extender shall support PoC (Power over Cable) requiring only one 24V/1A supply for both units. LED indicators shall provide status for power, ARC, SPDIF, link integrity, and HDCP to simplify installation and troubleshooting.