NETVIO

MATRIX RECIEVER

RX-HT2-40-10

HDMI 18Gbps HDBaseT Receiver with RS-232, IR & PoC 40m/231ft



> Product Description

The Netvio RX-HT2-40-10 is a professional HDBaseT receiver designed for reliable long-distance HDMI extension. Supporting 18Gbps HDMI 2.0b and HDCP 2.2/1.4, it delivers 4K60 4:4:4 video up to 40m (131ft) or 1080p60 up to 70m (230ft) over a single CAT5e/6 cable.

Engineered for straightforward HDMI pass-through, it supports full HDR formats including HDR10, HDR10+, and Dolby Vision, along with a wide range of multi-channel HDMI audio formats.

Control integration is seamless, with bi-directional IR, RS-232, and CEC pass-through, making it ideal for automation and professional AV systems. PoC (Power over Cable) functionality simplifies installation by requiring power at only one end of the system.

> Product Features

- HDBaseT HDMI Receiver – Designed for long-distance HDMI distribution.
- Compatible with All HT2 Series Matrices – Supports basic video transmission across the full HT2 range.
- 4K60 4:4:4 Transmission – Up to 40m (131ft) over CAT6/6a cable.
- 18Gbps Bandwidth – Full HDMI 2.0b and HDCP 2.2/1.4 compliance.
- HDR Support – Compatible with HDR10, HDR10+, and Dolby Vision formats.
- Control Integration – Supports bi-directional IR, RS-232, and CEC pass-through.
- PoC (Power over Cable) – Simplifies installation, requiring power at only one end.
- Compact Installer Design – Slim, robust metal housing for reliable integration.

> What’s Included

- 1× RX-HT2-40-10 HDBaseT Receiver
- 1× IR Blaster Cable (1.5m)
- 1× IR Receiver Cable (1.5m)
- 1× 3-pin Phoenix Connector (RS-232)
- 1× Set of Mounting Ears with Screws
- 1× 24V/1A Locking Power Adapter
- 1× User Information

> Specifications

Video

- HDMI Compliance: HDMI 2.0b
- HDCP Compliance: HDCP 2.2 / 1.x
- Bandwidth: 18Gbps
- Supported Resolutions:
  - 4K@60Hz 4:4:4 up to 40m (131ft) via CAT6a/7
  - 1080p@60Hz up to 70m (230ft) via CAT6a/7
- HDR Support: HDR10, HDR10+, Dolby Vision
- Color Depth: 8-bit, 10-bit, 12-bit
- Color Space: RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0

Audio

- HDMI Audio Pass-through: PCM 2.0/5.1/7.1, Dolby Digital, Dolby TrueHD, DTS-HD MA, DSD
- Audio Breakout: Not supported (no ARC, no SPDIF)

Inputs / Outputs

- Inputs: 1× HDBT IN (RJ45, from HT2 matrix/transmitter)
- Outputs: 1× HDMI OUT (Type-A, video/audio)
- Control: 1× IR IN (3.5mm), 1× IR OUT (3.5mm), 1× RS-232 (3-pin Phoenix), 1× Micro-USB (service/firmware)

Compatibility

- Compatible with all HT2 Series Matrices for basic video transmission

Mechanical

- Dimensions: 165 × 88.3 × 20 mm (6.49″ × 3.47″ × 0.79″)
- Weight: 165g (0.36 lbs)
- Enclosure: Metal, black finish

Environmental

- Operating Temp: 0–40°C (32–104°F)
- Storage Temp: –20–60°C (–4–140°F)
- Humidity: 20–90% RH, non-condensing

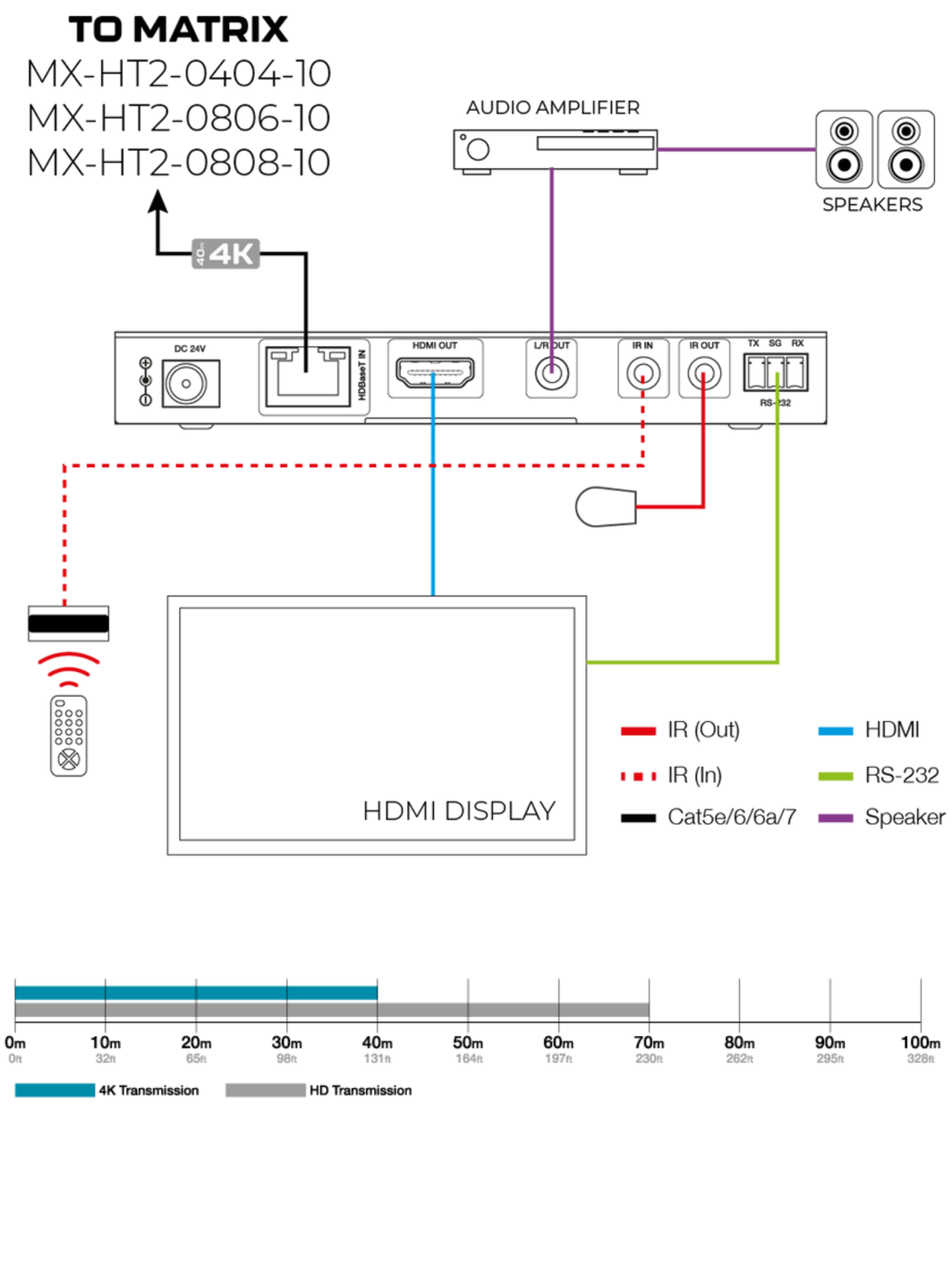
Power

- Supply: DC 24V/1A (locking connector, supplied with TX/matrix)
- Consumption: 11W (max)
- PoC Supported

Warranty

- 5 Years (for full details, visit the Netvio website)

> Wiring Diagram



> A&E Specification

The unit shall be a Netvio RX-HT2-40-10 HDMI HDBaseT Receiver supporting HDMI 2.0b and HDCP 2.2/1.x. It shall extend HDMI signals up to 4K60 4:4:4 at 40m (131ft) and 1080p60 at 70m (230ft) over a single CAT6a/7 cable. The device shall support HDR10, HDR10+, and Dolby Vision, with a maximum bandwidth of 18Gbps.

The receiver shall be compatible with all Netvio HT2 Series Matrix Switchers for basic video transmission. Audio formats including PCM, Dolby Digital, Dolby TrueHD, DTS-HD MA, and DSD shall be supported via HDMI pass-through. No ARC or SPDIF audio breakout shall be provided.

The receiver shall include 1× HDMI OUT, 1× HDBT IN, IR IN/OUT, RS-232, and CEC pass-through, with a micro-USB port for firmware/service. The unit shall support PoC (Power over Cable) and operate with a 24V DC / 1A supply, consuming no more than 11W.

The enclosure shall be metal, measuring 165 × 88.3 × 20 mm (6.49″ × 3.47″ × 0.79″) and weighing 165g (0.36 lbs).

The product shall carry a 5-year warranty (see Netvio website for full details).