

EX-TS-USB-70-10

4K60 4:4:4 HDMI & USB KVM Extender 70m (231ft)



> Product Description

The Netvio EX-TS-USB-70-10 is a compact and reliable extender solution designed to transmit uncompressed 4K60 4:4:4 HDMI video together with USB 1.1 KVM control up to 70 m (230 ft.) over a single Cat6/Cat6A cable.

Featuring a local HDMI loop-out, analog audio de-embedding, and bi-directional PoC, it provides installers with a flexible, single-cable solution for long-distance HDMI and peripheral extension.

With support for HDR10, Dolby Vision, and HLG, plus EDID management for guaranteed compatibility, the EX-TS-USB-70-10 is ideal for corporate AV, control systems, and signage applications where video and keyboard/mouse control must be extended simply and reliably.

> Product Features

- True 4K performance – Up to 4K60 4:4:4 (18 Gbps) with HDR10/Dolby Vision/HLG pass-through.
- 70 m over one cable – Zero-delay, uncompressed HDMI over Cat6/Cat6A to 230 ft/70 m.
- USB KVM extension – USB 1.1 keyboard/mouse control at the display, host USB-B at the TX.
- Local preview – HDMI loop-out on the transmitter for a secondary monitor.
- Audio break-out – 3.5 mm L/R analog de-embed at the RX for amps or powered speakers.
- PoC convenience – Bi-directional Power over Cable; power either end with the included 12 V PSU.
- EDID made simple – DIP presets (4K60 2.0ch / 1080p 2.0ch) + copy modes for rock-solid handshakes.
- Installer-friendly – Compact metal housings, status LEDs, plug-and-play—no drivers required.

> Specifications

Video

- Compliance: HDMI 2.0b
- Max Bandwidth: 18Gbps
- Max Resolution: 4K@60Hz (3840×2160) RGB/YCBCR 4:4:4
- Supported Formats: 4:4:4, 4:2:2, 4:2:0
- Color Depth: 8/10/12-bit
- HDR Support: HDR, HDR10, HDR10+, Dolby Vision, HLG
- HDCP Compliance: HDCP 2.2

Audio

- Embedded Audio Formats:
- LPCM 2.0 / 2.1 / 5.1 / 6.1 / 7.1,
- Dolby Digital, Dolby Digital Plus (DD+), Dolby TrueHD
- Analog Audio Output: 3.5mm stereo (Receiver unit, de-embedded).

Transmission

- Cable Type: CAT6/6a
- Distance:
 - 4K@60Hz 4:4:4 – up to 70m
 - 1080p – up to 70m
- Power-over-Cable: Bi-directional POC (only one unit requires power)

Connections

Transmitter (TX)

- HDMI IN: 1× HDMI Type A (19-pin, female)
- HDMI OUT (Loop): 1× HDMI Type A (19-pin, female)
- CAT OUT: 1× RJ45
- USB-B: 1× PC connection
- SERVICE: 1× Micro-USB (firmware updates)
- DC 12V power input

Receiver (RX)

- CAT IN: 1× RJ45
- HDMI OUT: 1× HDMI Type A (19-pin, female)
- L/R OUT: 1× 3.5mm stereo
- USB-A: 2× peripheral ports
- SERVICE: 1× Micro-USB (firmware updates)
- DC 12V power input

Mechanical

- Dimensions (TX/RX): 90mm (W) × 68mm (D) × 22mm (H)
- Weight: TX: 170g / RX: 169g
- Housing: Metal, black finish

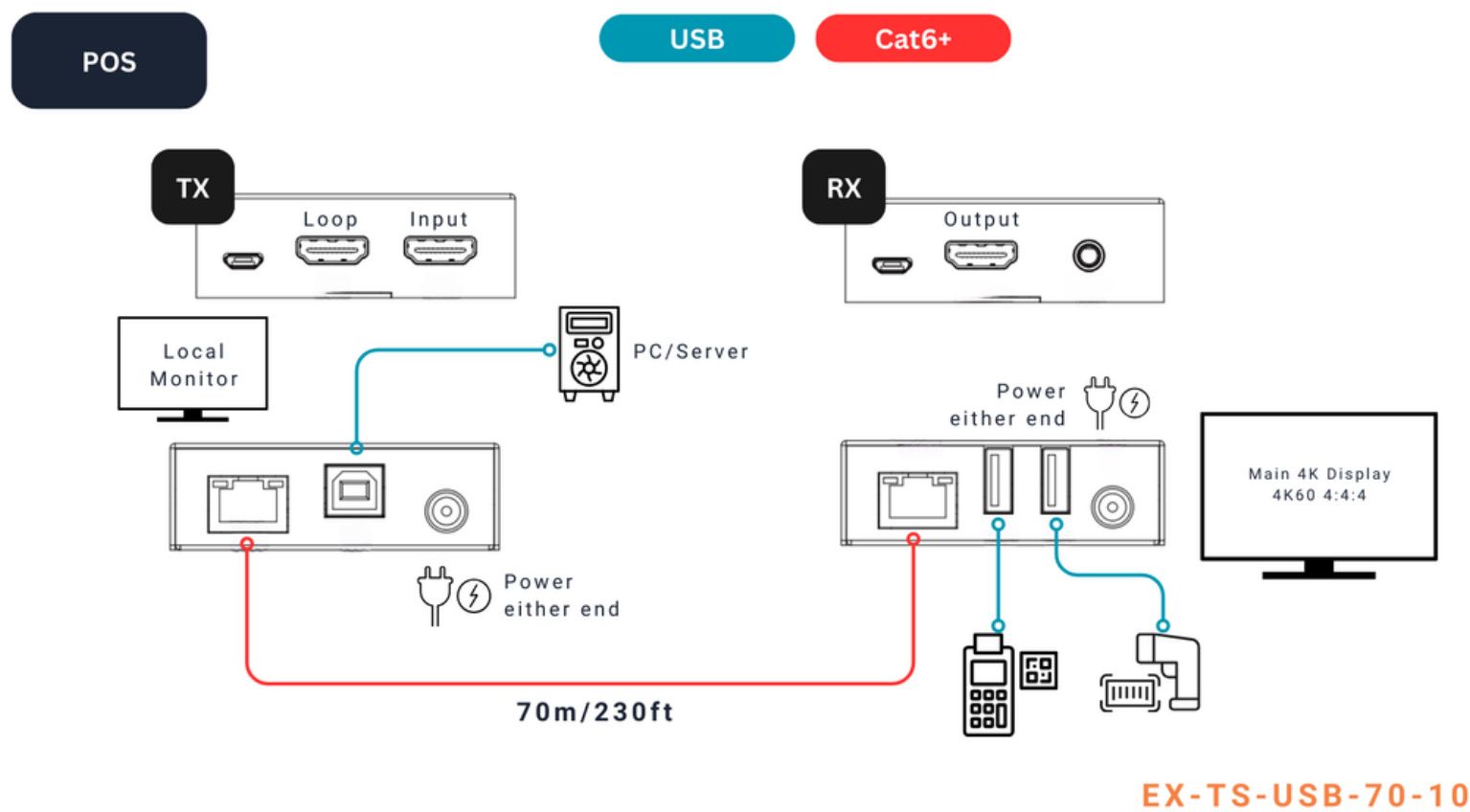
Environmental

- Operating Temp: 0°C ~ 40°C (32°F ~ 104°F)
- Storage Temp: -20°C ~ 60°C (-4°F ~ 140°F)
- Operating Humidity: 20% ~ 90% RH (non-condensing)
- Storage Humidity: 10% ~ 90% RH (non-condensing)

Power

- Supply: DC 12V/1A locking adapter (included)
- Consumption: Max 4.2W
- POC: Bi-directional (one PSU powers both units)

> Wiring Diagram



> What's Included

- HDMI Extender – Transmitter (TX) × 1
- HDMI Extender – Receiver (RX) × 1
- USB-A to USB-B Cable (1.5m) × 1
- Mounting Ears × 4
- Machine Screws (KM3×4) × 8
- 12V/1A Locking Power Adapter × 1
- User Information

> A&E Description

Architects & Engineers Specification – Netvio EX-TS-USB-70-10

The extender shall provide point-to-point transmission of HDMI video up to 4K60 4:4:4 together with USB 1.1 KVM (keyboard and mouse) control up to 70 meters (230 feet) over a single Cat6/Cat6A cable.

The extender shall consist of a transmitter and receiver housed in compact metal enclosures. The transmitter shall provide one HDMI input, one HDMI loop-out, and a USB-B host connection. The receiver shall provide one HDMI output, two USB-A device ports, and one 3.5 mm stereo audio output for de-embedded analog audio.

The extender shall support HDR formats including HDR10, Dolby Vision, and HLG, and shall include EDID management with selectable copy modes and presets. The system shall support Power over Cable (PoC), enabling either the transmitter or receiver to be powered by the supplied 12 V DC adapter.

The extender shall support bi-directional IR pass-through and include LED indicators for power and link status. The product shall be the Netvio EX-TS-USB-70-10 HDMI + USB KVM Extender.