

EX-TS-USB-70-10

NETVIO

**70M (230FT) 4K60 4:4:4
EXTENDER WITH DISTANCE
KVM COMPUTING.**



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Safety Information



Do not attempt to remove the product casing, as this may result in electrical shock. Repairs should not be attempted by anyone other than qualified personnel. For any service or repair needs, please contact Netvio Ltd or an authorized reseller to follow the proper service procedures. Any unauthorized repairs or the use of non-approved components will void the product warranty. For complete warranty terms and conditions, please visit: www.netvio.co.uk.

Introducing the Netvio EX-TS-USB-70-10 Extender – 4K60 & USB KVM category cable extender for distances upto 70m (231ft).

Experience seamless high-performance AV extension with the Netvio EX-TS-USB-70-10, the economical solution for 4K60 video and USB 1.1 KVM transmission over a single category cable.

Designed for professional and commercial applications, this budget friendly extender delivers uncompressed, zero-latency 4K video up to 70 meters (231ft), ensuring crystal-clear visuals and responsive control for remote computing setups.

CABLE & CONNECTIONS

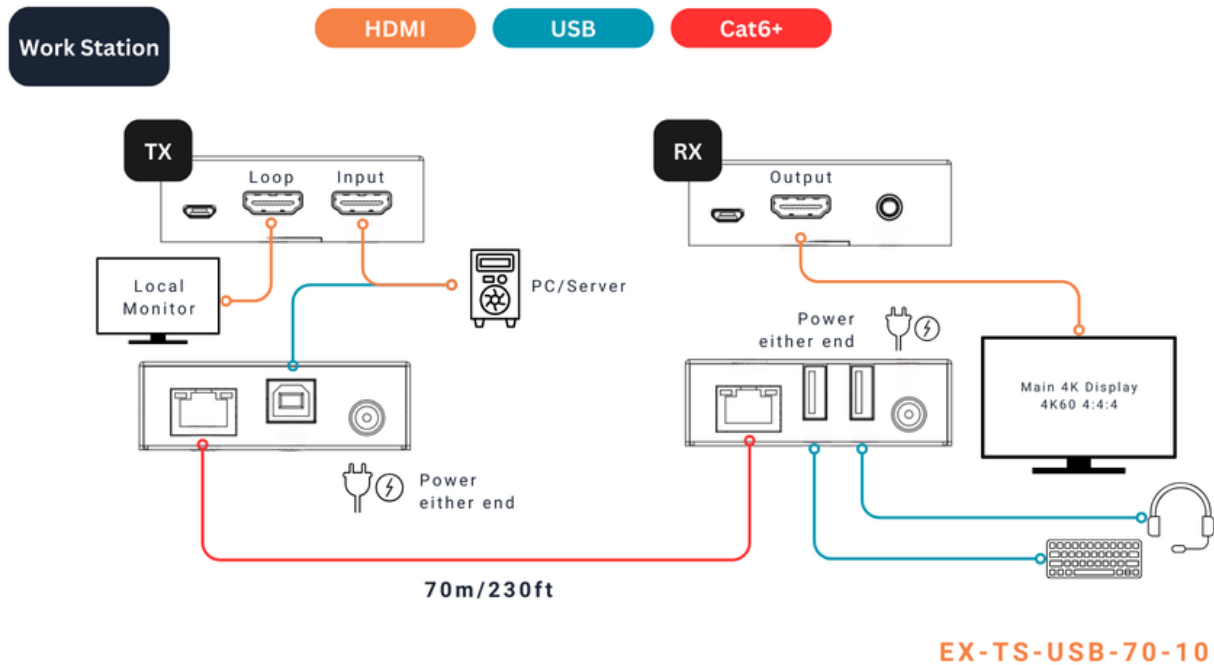
- **Important Notice on Cable Installation and Performance**
- Advertised cable distances are for reference only. Transmission distances can be influenced by various factors, including cable construction, quality, installation standards, patch panels, faceplates, and external elements such as electromagnetic interference (EMI).
- This product is designed to operate over unshielded twisted pair (UTP) Cat5e, Cat6, and Cat7 cables. When using shielded (STP) category cables, ensure that all drain wires and shielding are properly grounded.
- **RJ45 Termination Standards:**
- Follow the EIA/TIA-568-B termination standard. Do not simply wire pin-to-pin (e.g., Pin 1-1, Pin 2-2). The 568-B standard requires splitting the green pair between Pins 3 and 6.
- Maintain the twists in the Cat5e/Cat6/Cat7 cable pairs as close as possible to the point of termination.
- **Cable Installation Guidelines:**
- Avoid sharp bends or twists. Use gradual bends, with a minimum bend radius of 25mm wherever possible.
- Ensure that cables are not pulled too tightly or stretched. Excess tension can damage the cable. The maximum pulling force should not exceed 11kgf.
- Dress the cable with moderate to low pressure, ensuring the cable jacket is not pinched.
- Never splice, join, or bridge the cable, as this can cause significant transmission issues.
- **Electromagnetic Interference (EMI):**
- Keep category cables at least 300mm away from sources of EMI, such as electrical cables, transformers, and light fixtures. If necessary, cross electrical cables at right angles to minimize interference.
- **Testing and Certification:**
- After installation, ensure that the cable is thoroughly tested. A basic continuity check may not be sufficient to identify issues or certify performance.
- Finally, always verify compliance with local building and fire codes before installation.

WARRANTY

- Standard 5-Year warranty. Details available at www.netvio.co.uk/warranty

IN-THE-BOX

- 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



INSTALLATION NOTES

EDID DIP SWITCHES SETTINGS

- 11 - EDID information is copied from the display at the RX.
- 10 - EDID is preset to 4K@60Hz 2.0CH
- 01 - EDID is preset to 1080p 2.0CH
- 00 - EDID information is copied from the HDMI OUT at the TX

A power cycle after setting switches will be required.

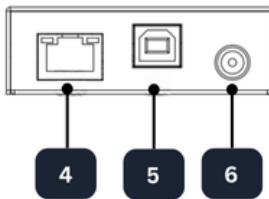
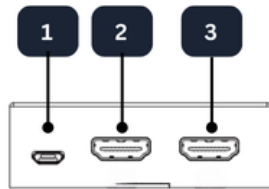
Limitations & Considerations of USB 1.1 Specifications

The EX-TS-USB-70-10 is a cost-effective and reliable solution designed for remote operation of devices using the USB 1.1 specification (12 Mbps bandwidth). This bandwidth is well-suited for keyboards, mice, low-bandwidth audio devices, and certain interactive whiteboards and touchscreens.

However, for higher-bandwidth applications such as webcams, external hard drives, or USB 2.0+ peripherals, Netvio recommends considering alternative products, including:

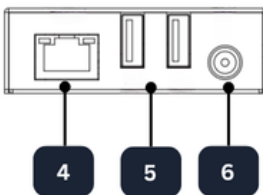
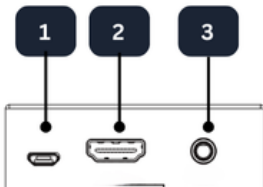
- EX-USB3-100-10
- EX-HT2-USB2-0201-10

TX CONNECTIONS



- 1 Service | Firmware Update
- 2 HDMI Loop Out
- 3 HDMI Source Input
- 4 Category Cable Connection (RJ45)
- 5 PC connection for KVM function
- 6 Power Supply | Either TX or RX

RX CONNECTIONS



- 1 Service | Firmware Update
- 2 HDMI Output (display)
- 3 Stereo audio output.
- 4 Category Cable Connection (RJ45)
- 5 Connection of USB devices (upto 12 Mbps) Keyboard, Mouse
- 6 Power Supply | Either TX or RX

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)