



4K60Hz HDMI KVM Extender over Cat6 — 70M

4K@60Hz HDR | KVM USB 2.0 | Zero Latency | IR Bi-directional | 3-Year Warranty

MPN: EXT-HDMIKVM70M

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Important: Use Cat6/6a STP (shielded twisted pair) with proper grounding for best transmission results. Do not bundle Cat cables with power cables.

Product Overview

The KanexPro **EXT-HDMIKVM70M** HDMI KVM extender transmits 4K@60Hz HDR video and USB 2.0 KVM signals over a single Cat6/6a cable up to 70 meters (230 ft.) with zero latency. In addition to keyboard and mouse control, the KVM USB port supports PTZ cameras, touchscreen devices, and other USB 2.0/1.1 peripherals at the receiver end.

Key Features

- ❏ Zero latency 4K@60Hz HDR + KVM USB 2.0/1.1 over single Cat6/6a to 70M
- ❏ KVM supports keyboard, mouse, PTZ cameras, touchscreen devices
- ❏ HDCP 2.2 and EDID support for multiple display types
- ❏ Bi-directional IR pass-through 20–60KHz — IR blasters included
- ❏ ARC S/PDIF digital audio de-embedded output on receiver
- ❏ Zero configuration plug-and-play setup
- ❏ Compact aluminum chassis: 106×99×26.2mm — 260g TX/RX
- ❏ 3-year KanexPro parts and labor warranty



Specifications

Specification	Value
Signal	HDMI 2.0 HDCP 2.2
Max Resolution	4K×2K @ 60Hz (4:4:4 HDR)
Supported Resolutions	480i/p, 576i/p, 720p, 1080i/p, 3840×2160@24/25/30/50/60Hz, 4096×2160@24/25Hz
KVM	USB 2.0/1.1 — keyboard, mouse, PTZ camera, touchscreen
Transmission Cable	Single Cat6 / Cat6a (STP recommended)
Max Distance	70M (230 ft.) at 4K@60Hz
IR	Bi-directional 20–60KHz (blasters included)
Audio Output	ARC S/PDIF de-embedded on RX
Power Supply	DC 5V–12V TX <4W RX <4W
Dimensions	106 × 99 × 26.2mm (TX & RX)
Weight	TX 260g RX 260g
Operating Temp	-20°C to 60°C
Warranty	3-year parts and labor

Package Contents

1× TX Unit | 1× RX Unit | 2× DC Power Adapters | IR TX/RX Blaster Kit | 1× User Guide

Safety Notes: Do not expose units to moisture. Ensure adequate ventilation around TX and RX units. Use only the included power adapters. Do not exceed the maximum cable distance.



Panel Descriptions



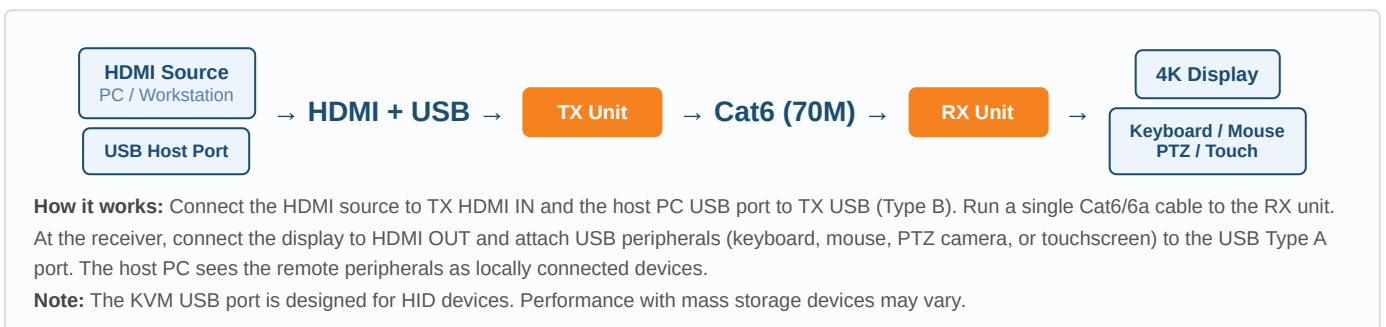
TRANSMITTER (TX) PANEL

NO.	NAME	DESCRIPTION
1	HDMI IN	HDMI 2.0 Type A input. Connect to HDMI source.
2	USB	USB Type B input. Connect to host PC USB port for KVM signal.
3	RJ45 OUT	Cat6/6a output to receiver.
4	IR OUT	3.5mm IR blaster output.
5	IR IN	3.5mm IR sensor input.
6	DC IN	DC 5V–12V power input.

RECEIVER (RX) PANEL

NO.	NAME	DESCRIPTION
1	RJ45 IN	Cat6/6a input from transmitter.
2	HDMI OUT	HDMI 2.0 Type A output to display.
3	USB	USB Type A port. Connect keyboard, mouse, PTZ, or touchscreen.
4	S/PDIF OUT	Coaxial ARC audio output.
5	IR OUT	3.5mm IR blaster output.
6	IR IN	3.5mm IR sensor input.
7	DC IN	DC 5V–12V power input.

Application Example



Troubleshooting

Q: USB peripherals not recognized

A: Confirm the USB Type B cable is connected from TX USB to the host PC. Try a different USB port on the PC. Ensure the Cat6 cable is properly seated. Power-cycle both units.

Q: No video on display

A: Verify Cat6 cable length does not exceed 70M. Use STP Cat6a for best results. Check HDMI cable connections at source and display.

Q: IR control not working

A: Confirm IR blasters point at the correct devices. Verify 3.5mm connectors are fully seated.



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