

4K60 & Ultrawide HDMI KVM Extender with USB 3.2 over CAT6a (40m/130ft)

Put the Workstation in the Rack and Everything Else on the Desk — 4K60 4:4:4, 32:9 Ultrawide Support & USB 3.2 at 2.5Gbps

MPN: EXT-HDMIKVM4K-40M



Puts the workstation in the rack and everything else on the desk — over one CAT6a cable. The EXT-HDMIKVM4K-40M extends uncompressed 4K60 4:4:4 video, USB 3.2 Gen 1 peripherals at 2.5Gbps, analog audio and RS-232 up to 40m/130ft, so the host machine can live in a conditioned closet while the display, keyboard, mouse, camera and drives stay at the operator position. Both units are metal-enclosed, draw 29.4W combined, and run from a single 24V supply connected at either end via bi-directional PoC — the right choice for control rooms, edit bays and clinical workstations where USB peripheral performance matters more than raw cable distance.

An HDMI loop out on the transmitter drives a local monitor at the same time the receiver drives the remote display, and three downstream ports at the far end — two USB-A and one USB-C — take modern peripherals without adapters. Ultrawide operator desks are supported natively at 5120×1440 (32:9) and 3440×1440 (21:9), both at 60Hz 4:4:4. RS-232 pass-through, an ASCII command set and 25 EDID presets make it specifiable into a control system rather than a fixed point-to-point link. Its defining advantage is USB bandwidth: at 2.5Gbps it carries more than five times what USB 2.0 extension delivers, which is the difference between a 4K room camera or an external drive working at the far end and not.

 4K60 4:4:4 Uncompressed, HDMI 2.0b	 USB 3.2 Gen 1 2.5 Gbps, 3 device ports	 40m / 130ft Single CAT6a cable	 HDMI Loop Out Local + remote display	 RS-232 + API 25 EDID presets
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KEY FEATURES

- Extends uncompressed 4K60 4:4:4 HDMI video and USB 3.2 Gen 1 data up to 40m/130ft over a single CAT6a cable
- USB 3.2 Gen 1 at up to 2.5 Gbps — more than 5× the bandwidth of USB 2.0 extension (does not support 5 Gbps operation)
- HDMI loop out on the transmitter drives a local monitor simultaneously with the remote display
- Three downstream USB device ports on the receiver — 2× USB-A and 1× USB-C, 5V/1.5A per port
- Ultrawide support — 5120×1440 (32:9) and 3440×1440 (21:9) at 60Hz 4:4:4; 5120×2160 at 50Hz
- HDCP 2.3 and HDCP 1.x, with HDR, HDR10, HDR10+, Dolby Vision and HLG pass-through
- RS-232 pass-through plus ASCII command API and 25 EDID presets for control-system integration
- Analog audio de-embedding at both transmitter and receiver via 3.5mm output (LPCM 2CH, 32–192kHz)
- Bi-directional 24V PoC — one power supply at either end powers both units over the CAT6a cable

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b · HDCP 2.3 and 1.x · 18Gbps
Video Resolution	4K60 4:4:4 uncompressed · 4096×2160@60 · ultrawide 5120×1440 & 3440×1440 @60
HDR	HDR10, HDR10+, Dolby Vision, HLG pass-through
USB	USB 3.2 Gen 1 up to 2.5 Gbps · 2× USB-A + 1× USB-C device ports, 5V/1.5A each
Distance	40m/130ft at 4K · 35m/115ft at 5K · CAT6a U/FTP 23AWG minimum
TX Connections	HDMI IN · HDMI LOOP OUT · USB-B host · RS-232 · 3.5mm audio · RJ45
RX Connections	HDMI OUT · 2× USB-A + 1× USB-C · RS-232 · 3.5mm audio · RJ45
Audio De-embedding	3.5mm analog, LPCM 2CH 32–192kHz, both ends
Control	RS-232 pass-through · ASCII API 115200 8-N-1 · 25 EDID presets
Power	DC 24V/2A · bi-directional PoC · TX 4W, RX 25.4W max
Dimensions / Weight	4.65" × 4.37" × 1.00" (118 × 111 × 25.5mm) · 0.83 / 0.84 lbs

PACKAGE CONTENTS

1× Transmitter (HDMI IN) • 1× Receiver (HDMI OUT) • 1× 24V/2A power adapter • 2× 3-pin 3.5mm phoenix connector • 4× mounting ear • 8× machine screw • 3× hexagonal copper stud • 1× user manual



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