

## 2×1 HDMI & USB-C HDBaseT Wall Plate Extender Kit with KVM

The KanexPro **WP-EXTHDTC70** is a 2×1 HDMI and USB-C HDBaseT wall plate extender kit for professional AV installations requiring 4K/60Hz signal extension with full KVM capability. Housed in a single-gang US Decora-style enclosure, the wall plate transmitter accepts HDMI 2.0b or USB-C sources and extends them over a single CAT6/6a/7 cable to the included receiver. Supports 4K@60Hz 4:4:4 up to 40m and 1080p up to 70m.

The WP-EXTHDTC70 eliminates the need for local AC power at the wall plate — the receiver supplies power over the cable via POE. Two USB-A ports on the receiver extend USB 2.0 peripherals back to the source for full KVM control. Auto-switching detects the active source and prioritizes HDMI; a SOURCE button enables manual override. Available in interchangeable black and white faceplates.

**Surge Protection Recommended** — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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### FEATURES

- ✓ Compliant with HDMI 2.0b, HDCP 2.2 and DisplayPort 1.2a
- ✓ Supports 18Gbps video bandwidth
- ✓ Video resolution up to 4K@60Hz 4:4:4
- ✓ HDBaseT output extends video up to 230ft/70m for 1080p or 131ft/40m for 4K via single CAT6/6a/7
- ✓ Supports HDR10 and HDR10+
- ✓ Audio formats: Dolby Atmos, TrueHD, Digital+, Digital; DTS:X, HD Master Audio, HD High Resolution Audio, 5.1; PCM 2–8Ch
- ✓ Supports HDMI and USB-C input
- ✓ US one-gang enclosure for Decora-style wall plate openings
- ✓ Input selection: automatic and manual mode
- ✓ USB 2.0 extension with Receiver (KVM function)
- ✓ Supports POE (Receiver to Transmitter)
- ✓ USB-C charging port on transmitter
- ✓ Available in white or black coating

### PACKAGE CONTENTS

1× 18Gbps 70M USB-C/HDMI KVM Wall Plate Transmitter • 1× Receiver • 1× User Manual



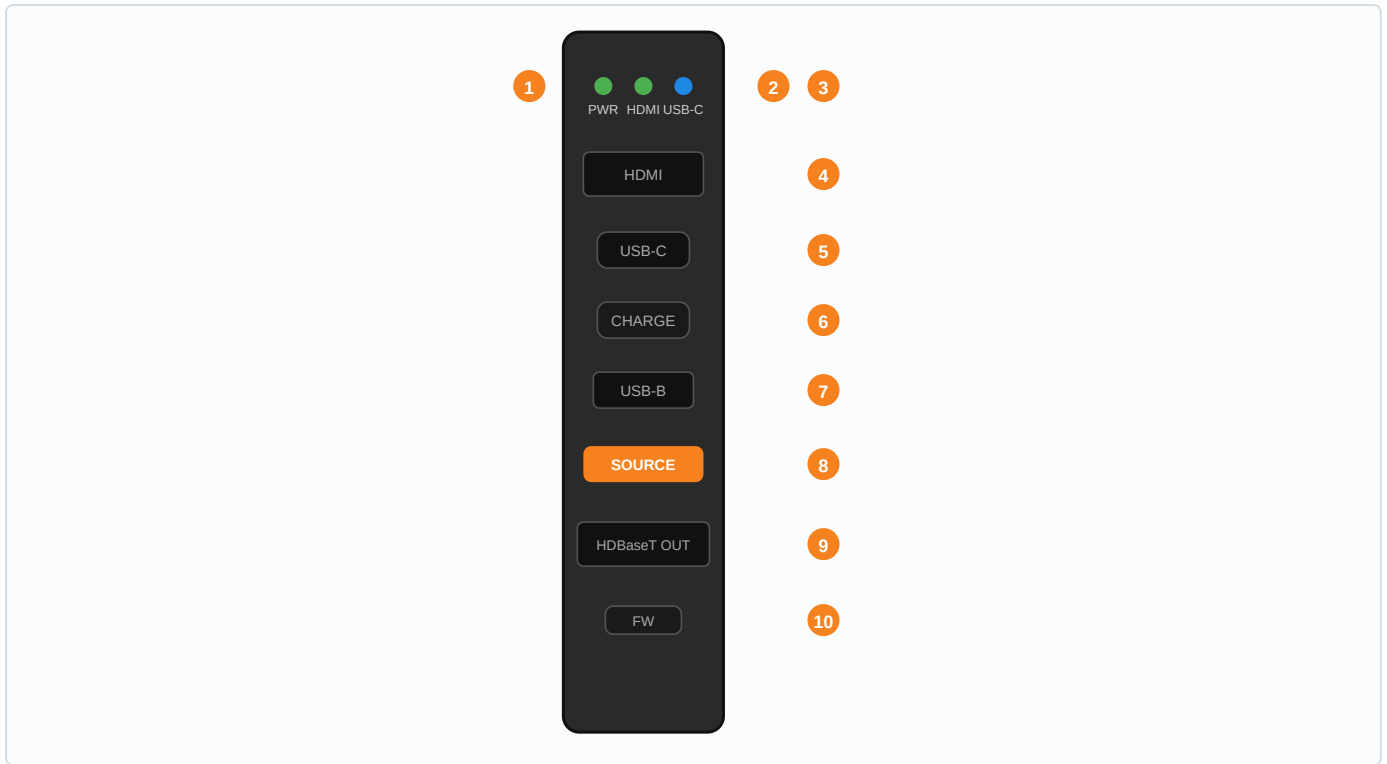
## Specifications

TECHNICAL	
<b>HDCP Compliance</b>	HDMI 2.0b, DisplayPort 1.2a
<b>Video Bandwidth</b>	18Gbps
<b>Video Resolution</b>	4096×2160@24/25/30/50/60Hz, 3840×2160@24/25/30/50/60Hz, 2048×1080p, 1080p@23.98–60Hz, 1080i, 720p, 576p/i, 480p/i
<b>Color Space</b>	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
<b>Color Depth</b>	8/10/12-bit
<b>HDMI Audio Formats</b>	Dolby Atmos, TrueHD, Digital+, Digital; DTS:X, HD Master Audio, HD High Resolution Audio, 5.1; PCM 2–8Ch
<b>Transmission Distance</b>	1080p: 230ft/70m over CAT6/6a/7 • 4K: 131ft/40m over CAT6/6a/7
<b>ESD Protection</b>	Human body model ±8kV (Air-gap) & ±4kV (Contact discharge)
CONNECTION — TRANSMITTER	
<b>Inputs</b>	1× HDMI Type A [19-pin female], 1× USB-C
<b>Outputs</b>	1× HDBaseT Out [RJ45, 8-pin female], 1× USB-C (charging only)
<b>Control</b>	1× Micro USB [firmware update]
CONNECTION — RECEIVER	
<b>Inputs</b>	1× HDMI IN [Type A, 19-pin female], 1× HDBaseT IN [RJ45, 8-pin female]
<b>Outputs</b>	1× HDMI OUT [Type A, 19-pin female], 1× Audio OUT [Phoenix jack]
<b>Control</b>	2× USB-A [KVM], 1× Micro USB [firmware update]
MECHANICAL	
<b>Housing</b>	Metal Enclosure
<b>Color</b>	Black (interchangeable black/white faceplates)
<b>Dimensions — TX Wall Plate</b>	1.31" × 2.59" × 2.70" (33.3 × 65.7 × 68.7mm)
<b>Dimensions — Faceplate</b>	2.75" × 0.12" × 4.50" (69.9 × 3 × 114.3mm)
<b>Dimensions — Receiver</b>	7.87" × 3.86" × 0.91" (200 × 98 × 23mm)
<b>Weight — TX</b>	0.43 lbs (196g)
<b>Weight — RX</b>	1.13 lbs (511g)
POWER	
<b>Power Supply</b>	POE from Receiver to Transmitter
<b>Consumption — TX</b>	9W max
<b>Consumption — RX</b>	11W max
ENVIRONMENT	
<b>Operating Temperature</b>	32–104°F / 0–40°C
<b>Storage Temperature</b>	4–140°F / –20–60°C
<b>Relative Humidity</b>	20–90% RH (no condensation)
PACKAGE CONTENTS	
<b>1×</b>	18Gbps 70M USB-C/HDMI KVM Wall Plate Transmitter
<b>1×</b>	Receiver
<b>1×</b>	User Manual



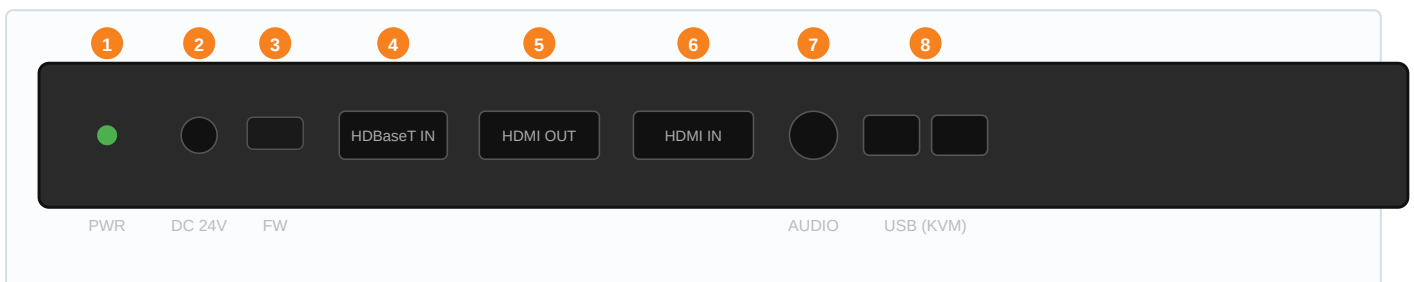
## Operation Controls

### TRANSMITTER PANEL



No.	Name	Function Description
1	<b>Power LED</b>	Illuminates green when powered on; red when on standby.
2	<b>HDMI LED</b>	Green when HDMI input is active and signal detected.
3	<b>USB-C LED</b>	Green when USB-C input is active and signal detected.
4	<b>HDMI Port</b>	HDMI input — connect to HDMI source device.
5	<b>USB-C Port</b>	(1) USB-C signal input. (2) Charging port for USB-C devices.
6	<b>CHARGE Port</b>	Connect to power supply; USB-C port then powers connected device.
7	<b>USB-B Port</b>	Connect to source computer's USB port for KVM function.
8	<b>SOURCE Button</b>	Toggles HDMI/USB-C input. In auto mode, HDMI is prioritized.
9	<b>HDBaseT OUT</b>	Connect to HDBaseT IN on Receiver via CAT6/6a/7 cable.
10	<b>Micro-USB (FW)</b>	Firmware update port.

### RECEIVER PANEL



No.	Name	Function Description
1	<b>Power LED</b>	Green when HDMI signal is detected and active.
2	<b>DC 24V</b>	DC 24V power supply port.
3	<b>FW</b>	Firmware update port.
4	<b>HDBaseT IN</b>	Connect to HDBaseT OUT on Transmitter via CAT6/6a/7 cable.
5	<b>HDMI OUT</b>	HDMI output — connect to display.



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## Application Example

### BYOD Conference Room — HDMI & USB-C Extension with KVM



**How it works:** Install the WP-EXTHDTC70 wall plate at the table or podium. Connect a MacBook or Windows laptop via USB-C, or any HDMI source. Signal and USB 2.0 extend over a single CAT6 cable to the receiver at the display. The receiver powers the transmitter via POE — no AC outlet needed at the table. USB 2.0 KVM ports on the receiver enable keyboard, mouse, and touchscreen control back at the source. In auto mode the wall plate prioritizes HDMI; press SOURCE to manually override.

## TROUBLESHOOTING

### Q: No video on display

A: Verify all cables are securely connected. Use CAT6 or better — avoid patch cables and couplers. Power cycle source and display.

### Q: No signal after switching source

A: EDID mismatch or handshake failure. Reconnect CAT cable at both ends. Power cycle the source device.

### Q: Power LED not illuminating on TX

A: Verify receiver is powered and the CAT cable is properly connected from RX to TX. Check POC/POE is enabled.

### Q: Image flickering or intermittent signal

A: Use shielded CAT6/6a with metal RJ45 connectors. Verify cable length does not exceed rated distance.

