

## Long-Reach 2×1 HDMI & USB-C HDBaseT Wall Plate Extender Kit — 4K60 4:4:4

Drive a Display Up to 120m Without an AV-over-IP Encoder or Network Switch — Uncompressed 18Gbps, HDR10+/Dolby Vision & Bi-Directional PoC

MPN: WP-EXTHDTC150



The WP-EXTHDTC150 carries an uncompressed 4K60 4:4:4 signal from a wall plate to a display up to 120m over a single CAT6/6A cable, with no AV-over-IP encoder, decoder or network switch to commission. A transmitter in a single US 1-gang box takes one HDMI and one USB-C source with automatic or manual switching, a compact box receiver drives the display, and bi-directional PoC powers whichever end has an outlet over the link cable. Reach runs to 120m (394 ft) at 4K60 4:4:4 and 150m (492 ft) at 1080p, making it the right choice for large lecture halls, houses of worship, courtrooms, ballrooms and estate-scale residential where the length of the run — not USB or KVM extension — is the constraint that defeats a shorter-reach plate.

The link passes 18Gbps of uncompressed HDMI 2.0b video with HDR, HDR10, HDR10+, Dolby Vision and HLG intact, alongside LPCM 7.1, Dolby TrueHD and DTS-HD Master Audio, and de-embeds analog stereo at the receiver for a local audio tie-in. Bi-directional IR, RS-232 and CEC pass through the cable so the control system can operate source and display from either end. Its single strongest differentiator is reach at full picture integrity: it holds 4:4:4 color to 120m.

### 1 PRODUCT OVERVIEW

#### DESIGNED FOR

This kit is for the long single-cable run: a source terminated at a wall plate at a lectern, huddle table, credenza or bar, driving a display, projector or rack at an architecturally awkward distance. It fits large lecture halls and divisible classrooms, houses of worship, courtrooms and council chambers, hotel ballrooms and conference centers, corporate town-hall spaces, and estate-scale residential where the projector booth is a full building-length from the input plate.

#### THE CHALLENGE

A source at the wall and a display 90–140m away leaves few good options. A standard 4K HDBaseT wall plate falls short of that distance, so it fails the run outright and has to be pulled and re-specified. Fiber or AV-over-IP covers the distance but forces an encoder/decoder pair, a switch port and commissioning onto what should be a clean two-box install — added cost, added parts, and a network dependency on a signal path that was meant to be fixed and documented.

#### THE KANEXPRO ADVANTAGE

- Carries uncompressed 4K60 4:4:4 at 18Gbps to 120m (394 ft), and 1080p to 150m (492 ft), over a single CAT6/6A cable
- Holds full 4:4:4 color at its full 120m (394 ft) reach
- Passes HDR10+, Dolby Vision and HLG with LPCM 7.1, Dolby TrueHD and DTS-HD Master Audio intact to the far endpoint
- Needs no encoder, decoder or network switch — two boxes on one straight-through cable
- Powers from either end by bi-directional PoC, and passes bi-directional IR, RS-232 and CEC for control from the plate or the display

## 2 PRODUCT POSITIONING

*The WP-EXTHDTC150 is the long-reach HDMI and USB-C wall-plate extender kit for AV integrators who need uncompressed 4K60 4:4:4 from a wall plate to a display up to 120m — without an AV-over-IP encoder and decoder, a network switch, or a shorter-reach plate that fails the run.*

## 3 APPLICATIONS



### Large lecture hall / divisible classroom

A lectern input plate takes both a resident room PC (HDMI) and a visiting laptop (USB-C) with auto-switching, and drives a projector at the rear booth 90–110m away over one CAT6A. Full 4:4:4 keeps fine text and spreadsheet legibility intact at range, and bi-directional RS-232/CEC lets the control system power the projector from the lectern.



### House of worship main auditorium

The stage-side confidence and program feed originates at a wall plate and must reach a projection booth or overflow display across a long sanctuary. HDR10+/Dolby Vision and Dolby TrueHD/DTS-HD pass-through preserve the produced look and multichannel bed to the far endpoint without an IP backbone or a codec pair to commission.



### Courtroom / council chamber

A counsel-table or podium input plate feeds evidence displays and the bench at a building-length distance under a fixed, documented signal path. Straight-through single-cable transport and RS-232 control suit a chambers standard that avoids network dependencies, and the receiver's local audio de-embed feeds a court reporting or assistive-listening tie-in.



### Hotel ballroom / conference center

A floor-box or column input plate drives ceiling projectors or a far LED wall across a large divisible ballroom. The 120m reach covers the longest single-room throws these venues generate, and bi-directional PoC lets the installer power whichever end is easier to reach with AC behind a fixed wall or in a rigging grid.



### Corporate town-hall / all-hands space

A presenter position takes HDMI and USB-C laptops and sends a single uncompressed 4K feed to a distant display or projector in a tall, open floorplate where an in-wall home-run is cleaner than a switch drop. Auto-switching handles presenter changeovers without a control-system macro.



### Estate / large residential projector run

A media-room or great-room input plate feeds a projector in a remote booth or an attic-mounted unit at the far end of a large home, where the run exceeds what a 40–70m plate can carry. Dolby Vision and lossless-audio pass-through keep the cinema pipeline intact, and the 1-gang plate keeps the source wall architecturally clean.

## 4 WHO THIS IS FOR

Higher-ed & K-12 large rooms

Houses of worship

Government/courtroom/council

Hospitality & conference centers

Corporate town-hall/divisible spaces

Sports & venues

High-end residential

### Ideal User

commercial AV systems integrator / design engineer specifying a fixed-install signal path; secondarily the custom-install (CEDIA) integrator on estate-scale residential.

### Project Types

higher-ed & K-12 large rooms, houses of worship, government/courtroom/council, hospitality & conference centers, corporate town-hall/divisible spaces, sports & venues, high-end residential (projector-booth runs).

### Typical Buyer

the design engineer or lead installer picks the part on the line drawing; the **purchasing/PM** approves against a BOM. In residential, the integration firm owner/lead tech decides.

## 5 FREQUENTLY ASKED QUESTIONS

**Q:** How far will it actually run at 4K?

Up to 120m (394 ft) at 4K60 4:4:4 over CAT6/6A, and up to 150m (492 ft) at 1080p60. Reach at the top resolution depends on using CAT6/6A terminated straight-through per the kit's wiring guide; longer or lower-grade cable trades resolution for distance.

**Q: Does it extend USB for a keyboard, mouse or camera at the display end (KVM)?**

No. The USB-C port is a video input for a laptop or mobile source; it does not extend USB peripherals to the receiver.

**Q: Can I plug in a laptop by USB-C and a room PC by HDMI at the same time?**

Yes. The transmitter has both a USB-C and an HDMI input with auto and manual switching, so a fixed HDMI source and a visiting USB-C laptop can share the one plate.

**Q: Will it charge the laptop over USB-C?**

No. USB-C here is a display input only; it does not deliver charging power back to the connected source.

**Q: What's in the box?**

The transmitter wall plate, the HDBaseT receiver, a 24V/1A multinational power supply, an IR blaster and IR receiver cable, and the Phoenix connectors and mounting hardware. Documentation is digital — scan the QR code on the box; no printed manual ships.

**Q: Where does it get power — do I need AC at the wall plate?**

It supports bi-directional PoC, so you can power the pair from whichever end has an outlet and let the other end draw over the link cable — useful when there's no AC behind the input plate.

**Q: Does it carry HDR and surround audio through to the far end?**

Yes — HDR10, HDR10+, Dolby Vision and HLG pass through, along with LPCM 7.1, Dolby TrueHD and DTS-HD Master Audio, and the receiver also de-embeds analog stereo at the display end.