

PS-HCW-TR70 | 4K60 HDBaseT WALLPLATE EXTENDER

HDMI 2.0 | HDCP 2.2 | HDMI + USB-C DP Alt Mode | 4K60 | 70 m over CAT6

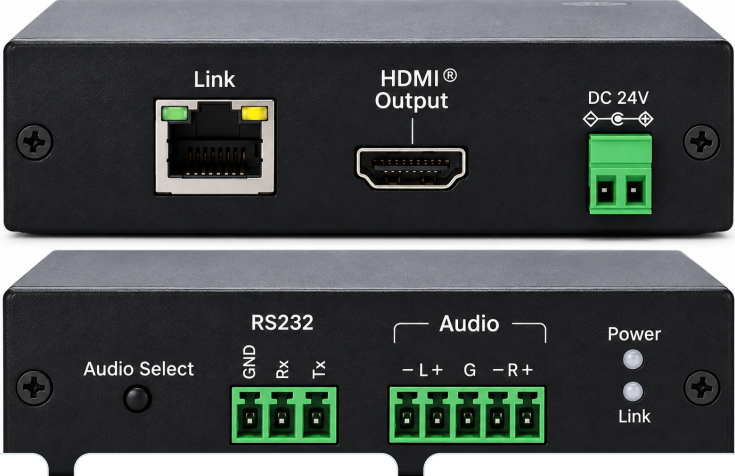


4K60

Maximum video

70 m

CAT6 distance



2 INPUTS

HDMI + USB-C

HDBaseT

Single-cable link

PRODUCT OVERVIEW

The Peapsonic PS-HCW-TR70 is a wallplate transmitter and receiver extender kit for professional 4K presentation systems. The transmitter accepts either an HDMI source or a USB-C source supporting DisplayPort Alt Mode, and sends the selected video and embedded audio to the receiver over a single CAT6 cable at distances up to 70 metres.

At the display end, the receiver provides HDMI output, balanced analogue audio de-embedding and RS-232 connectivity. Front-panel source selection and status LEDs make the wallplate easy to operate in meeting rooms, classrooms, lecterns and collaboration spaces.

KEY FEATURES

- HDMI and USB-C inputs with front-panel source selection.
- USB-C input supports DisplayPort Alternate Mode video.
- HDMI 2.0 and HDCP 2.2 compatibility.
- Supports video resolutions up to 4K@60 Hz.
- Extends video and audio up to 70 m over CAT6.
- Receiver HDMI output for a display or projector.
- Balanced stereo analogue audio de-embedding at receiver.
- RS-232 terminals for professional control integration.
- HDR, HDR10 and HDR10+ dynamic-range formats.
- PCM, DTS and Dolby Digital multichannel audio support.

PRODUCT CONNECTION VIEWS



Wallplate rear: HDBaseT LINK

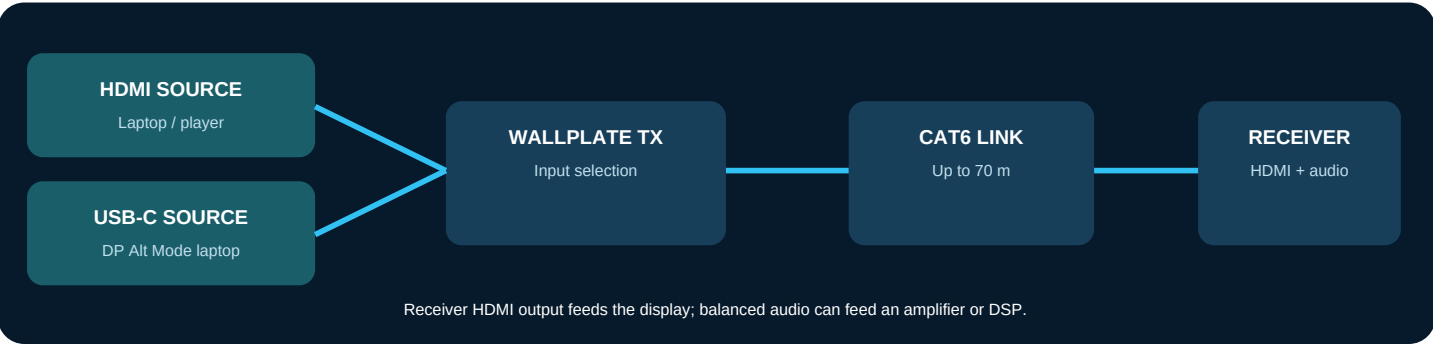


Receiver: LINK, HDMI OUT, 24 V DC, RS-232 and audio

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Application topology, connector guide, audio performance and environmental specifications

APPLICATION DIAGRAM - WALLPLATE TO RECEIVER / 70 m



CONNECTOR AND CONTROL DETAILS

TX HDMI INPUT	Connect an HDMI source such as a laptop, player or collaboration device.
TX USB-C INPUT	Connect a USB-C source with DisplayPort Alt Mode video output.
INPUT SELECT	Selects HDMI or USB-C; LEDs identify source and power status.
TX LINK	RJ45 HDBaseT connection to receiver using CAT6 cable.
RX LINK	RJ45 input from wallplate transmitter; link LED confirms connection.
RX HDMI OUTPUT	Connects the extended signal to a 4K display or projector.
RX AUDIO	Balanced left/right analogue audio output on terminal block.
RX RS-232 / DC 24 V	Serial control terminals and receiver power connection.

TECHNICAL SPECIFICATIONS

Model	PS-HCW-TR70	Audio impedance	500 ohm
Standard	HDMI 2.0 / HDCP 2.2	Audio SNR	114 dB, A-weighted
Maximum video	4K@60 Hz	Dynamic range	114 dB
Transmission	Up to 70 m over CAT6	THD+N	-94 dB
Dynamic range	SDR, HDR, HDR10, HDR10+	Operating temp.	0 to 55 deg C
Audio - PCM	2CH, 5.1CH, 7.1CH	Storage temp.	-40 to 80 deg C
Audio - DTS	2CH, 5.1CH	Humidity	Up to 95%
Dolby Digital	AC-3 2CH / 5.1CH	Operating altitude	Up to 2000 m
TX dimensions	120 x 70 x 36 mm	TX weight	88.6 g
RX dimensions	123 x 88 x 32 mm	RX weight	248.4 g
		Warranty	3 years parts and labor

TYPICAL APPLICATIONS

- Meeting and conference rooms
- Classrooms and training spaces
- Lecterns and presentation walls
- Collaboration and video conferencing
- Control rooms and professional AV
- Display extension in large rooms

Use quality solid-copper CAT6 cabling and follow installation practices appropriate to the site environment.