

WALL PLATE EXTENDERS · HDBASET WALL PLATE

BLU-HDC-WP70-C

# HDMI into the wall, HDBaseT out.

A 4K60 HDMI EU 1-gang wall-plate transmitter. Drop a single HDMI input into a standard wall box and run one CAT6/6A cable to the display or HDBaseT projector — up to 40 m at 4K60 or 70 m at 1080P. Two-way IR, RS-232, HDR and 24V PoC included.



EU 1-gang

WALL PLATE

40m

@ 4K60

70m

@ 1080P

2-way IR

+ RS-232

24V PoC

+ HDR

## SPECIFICATION SUMMARY

|                |                                 |
|----------------|---------------------------------|
| Type           | EU 1-gang HDBaseT wall-plate TX |
| HDMI           | HDMI 2.0b                       |
| HDCP           | HDCP 2.2                        |
| Bandwidth      | 18Gbps                          |
| Max Resolution | 4K@60Hz 4:4:4                   |
| Reach          | 70m @ 1080P / 40m @ 4K60        |
| Link           | Single CAT6/6A                  |
| Control        | 2-way IR, RS-232                |
| HDBaseT        | VS010 transmitter               |
| Power          | 24V PoC or local DC 24V         |

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## KEY FEATURES

- HDMI 2.0b, HDCP 2.2, 18Gbps, 4K60 4:4:4
- EU 1-gang form factor, standard wall box
- 70m @ 1080P / 40m @ 4K60 over CAT6/6A
- 2-way IR, RS-232 and 24V PoC

**One socket in the wall, one cable to the room.** The wall plate takes an HDMI source and sends it over a single CAT6/6A run — up to 70m at 1080P — to the display or projector, with IR and RS-232 returning for control.



wall-plate TX - single CAT6 - 4K60 HDMI + IR + RS-232 + 24V PoC

WALL PLATE EXTENSION · HDMI IN, HDBASET OUT, DISPLAY AT THE FAR END

# 01 Overview

What the wall plate does, and what's in the box.

This **HDMI EU 1-gang wall-plate** supports one HDMI input within a standard EU1GANG wall box. The HDBaseT port over a single CAT6/6A cable extends signal up to **70m at 1080P** or **40m at 4K@60Hz**. Video reaches 4K@60Hz 4:4:4. The product supports two-way IR and RS-232 control and 24V PoC (with PoC switch). It connects directly to an HDBT projector via CAT cable.

## FEATURES

- HDMI 2.0b and HDCP 2.2 compliant
- 18Gbps video bandwidth
- Video resolution up to 4K@60Hz 4:4:4
- HDBaseT 1.0 VS010 transmitter
- 70m @ 1080P / 40m @ 4K via single CAT6/6A
- HDMI audio: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-HD Master Audio, DSD
- HDR, HDR10, HDR10+, Dolby Vision, HLG
- Two-way IR and RS-232 control
- 24V PoC with PoC protection switch

## AT A GLANCE

Type

Wall plate TX

HDMI

2.0b

HDCP

2.2

BW

18Gbps

Max

4K60

Reach

70m

IR

2-way

PoC

24V

## PACKAGE CONTENTS

|    |                                       |
|----|---------------------------------------|
| 1× | HDMI Wall-plate Transmitter           |
| 1× | HDBaseT Receiver                      |
| 2× | 3-pin 3.81mm Phoenix Connector (male) |
| 1× | 2-pin 3.81mm Phoenix Connector (male) |
| 1× | IR Blaster Cable (1.5m)               |
| 1× | IR Receiver Cable (1.5m)              |
| 4× | Machine Screws (KM3*4)                |
| 2× | Mounting Ears                         |
| 1× | 24V/1A Locking Power Adapter          |
| 1× | User Manual                           |

## 02 Specifications

Technical, connection, mechanical and environmental figures.

### TECHNICAL

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| HDMI Compliance       | HDMI 2.0b                                                                                                 |
| HDCP Compliance       | HDCP 2.2                                                                                                  |
| Video Bandwidth       | 18 Gbps                                                                                                   |
| Video Compression     | HDBaseT                                                                                                   |
| Video Resolution      | 4K@60Hz 4:4:4                                                                                             |
| Transmission Distance | 70m @ 1080P / 40m @ 4K60 via CAT6/6A                                                                      |
| HDR                   | HDR, HDR10, HDR10+, Dolby Vision, HLG                                                                     |
| Audio Formats         | LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD |
| ESD Protection        | Human-body Model: ±8kV (Air-gap), ±4kV (Contact)                                                          |

### TRANSMITTER (WALL-PLATE)

|         |                                                                                        |
|---------|----------------------------------------------------------------------------------------|
| Input   | 1× HDMI IN [19-pin female]                                                             |
| Output  | 1× HDBaseT OUT [RJ45, 8-pin]                                                           |
| Control | 1× RS-232 [Phoenix]<br>1× IR IN [3.5mm]<br>1× IR OUT [3.5mm]<br>1× SERVICE [Micro-USB] |

### RECEIVER

|         |                                                                                               |
|---------|-----------------------------------------------------------------------------------------------|
| Input   | 1× HDBT IN [RJ45, 8-pin]                                                                      |
| Output  | 1× HDMI OUT [19-pin female]<br>1× AUDIO OUT [3.5mm Stereo]                                    |
| Control | 1× RS-232 [Phoenix]<br>1× IR IN [3.5mm]<br>1× IR OUT [3.5mm]<br>1× SERVICE [Mini-USB, update] |
| PoC     | 24V PoC, either end powers the other                                                          |

### MECHANICAL

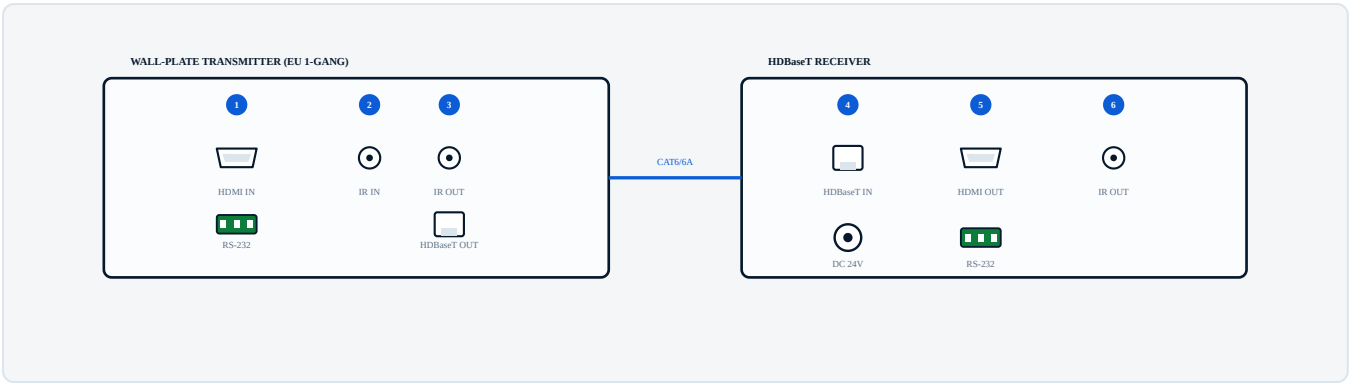
|                       |                                    |
|-----------------------|------------------------------------|
| Color                 | White front panel, black rear case |
| Wall-plate Dimensions | 80 (W) × 80 (D) × 38 (H) mm        |
| Receiver Dimensions   | 140 (W) × 65 (D) × 18 (H) mm       |
| Wall-plate Weight     | 157 g                              |
| Receiver Weight       | 249 g                              |

### POWER

|             |                                                                    |
|-------------|--------------------------------------------------------------------|
| Supply      | Input: AC 100–240V 50/60Hz<br>Output: DC 24V/1A (US/EU, CE/FCC/UL) |
| Consumption | Wall-plate: 3.36W, Receiver: 5.6W                                  |

## 03 Interfaces & control

The wall-plate and receiver connections.



- |   |                                           |                                                                                                             |
|---|-------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1 | HDMI IN                                   | HDMI Type A source input on the face plate, up to 4K60 4:4:4.                                               |
| 2 | RS-232 + IR IN                            | RS-232 (3-pin Phoenix) and IR receiver at the transmitter for local control.                                |
| 3 | HDBaseT OUT                               | RJ45 output to the receiver or HDBaseT projector, up to 70m on CAT6/6A.                                     |
| 4 | IR OUT                                    | IR blaster output to control the source device from the far end.                                            |
| 5 | 24V PoC                                   | PoC powers the receiver down the same CAT cable; a protection switch prevents damage to non-PoC projectors. |
| 6 | Receiver – HDBT IN / HDMI OUT / AUDIO OUT | HDBaseT input from the wall plate, HDMI to the display, and a 3.5mm stereo audio de-embed output.           |
| 7 | Receiver – RS-232 / IR / SERVICE          | RS-232 and two-way IR at the display end, plus a Mini-USB service port for firmware update.                 |

**Direct to projector.** HDBaseT projectors connect straight to the wall plate over CAT — no separate receiver needed.

**PoC switch.** The built-in PoC protection switch lets you safely use the wall plate with projectors that don't support PoC input.

## 04 Application example

Clean HDMI in from the room, display 70 m away.



wall-plate TX · single CAT6 · 4K60 HDMI + IR + RS-232 + 24V PoC

**One cable, no rack.** The wall plate sits flush in the meeting-room wall; a single CAT6 run powers and connects the display with no rack kit or visible cabling.

**Control from either end.** RS-232 and two-way IR let the room system control the source and display across the HDBaseT link.

### ORDERING

BLU-HDC-WP70-C

4K60 HDMI EU 1-Gang Wall-Plate with RS-232 & IR over HDBaseT — HDMI 2.0b, HDCP 2.2, 18Gbps, 4K@60Hz 4:4:4, HDBaseT 1.0 VS010, 70m @ 1080P / 40m @ 4K over CAT6/6A, 2-way IR, RS-232, HDR, 24V PoC

# bluKnot

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