

BG-EXH-50UWP-W

4K UHD 18GBPS HDMI/USB-C WALL PLATE TRANSMITTER & RECEIVER KIT UP TO 164FT

Introducing the BG-EXH-50UWP-W 18Gbps CAT 164ft Wall Plate Kit, a comprehensive solution for seamless signal transmission and distribution. This kit comprises a USB-C/HDMI Transmitter and a CAT6 to HDMI Receiver, designed to meet the demands of modern AV installations. Enclosed within a sleek one-gang Decora-style enclosure, the wall plate transmitter serves as a versatile 2x1 switcher and CAT transmitter, accommodating HDMI and USB-C inputs.

With support for resolutions up to 4K2K@50/60Hz 4:4:4 and a transmission distance of up to 164ft / 50m via CAT6 output, this kit ensures exceptional visual fidelity and flexibility. Additionally, the BG-EXH-50UWP-W kit supports various HDMI audio formats, HDR, and features a user-friendly interface with automatic/manual input signal selection. Its compatibility with Power Over Cable (POC) further enhances convenience, allowing remote powering from the receiver or other CAT-equipped devices.



FEATURES



STANDARDS COMPLIANCE

Compliant with industry standards including HDMI 2.0b, HDCP 2.2, and DisplayPort 1.2a (Adapter required for Display Port)



VIDEO BANDWIDTH

HDMI input supports high-speed 18Gbps video bandwidth, while USB-C input supports 5.4Gbps video bandwidth



EXTENDED TRANSMISSION

CAT6 output extends video transmission distance significantly; up to 164ft / 50m for 4K@24 or 115ft / 35m for 4K@60 444, using a single CAT5e/6 cable



COMPATIBILITY

Compatible with various advanced video technologies including 3D, HDR10, and Dolby Vision



AUDIO SUPPORT

Supports a wide range of HDMI audio formats, including LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, and DSD



POWER OVER CABLE (POC)

Features Power Over Cable functionality, allowing power transmission from Receiver to Transmitter, simplifying setup and reducing cable clutter



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
DP Compliance	Display Port 1.2a (Adapter required for Display Port)
Video Bandwidth	USB-C: 5.4 Gbps HDMI: 18 Gbps
Video Resolution	480i~1080p50/60Hz, 4Kx2K@24/30Hz, 4K2K@60Hz
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit (1080P@60Hz) 8-bit (4K@60Hz)
HDR	Support
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Transmission Distance	Max distance (4K@24) : 164ft / 50m over CAT5e/6 Max distance (4K@60) : 115ft / 35m over CAT5e/6
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection

Transmitter	Receiver
Inputs: 1x HDMI Type A [19-pin female] 1x USB-C Outputs: 1x HDBaseT Out [RJ45, 8-pin female] 1x USB-C (only for charging) Control: 1x FW [Micro USB, Update port]	Inputs: 1x HDBaseT IN [RJ45, 8-pin female] Outputs: 1x HDMI OUT [Type A, 19-pin female] Controls: 1x IR IN [3.5mm Stereo Mini-jack] 1x SERVICE [Micro USB, Update port]

Mechanical

Housing	Metal Enclosure
Color	White
Dimensions (W x D x H)	Wall plate: 1.31in x 2.6in x 2.7in [33.3mm x 65.7mm x 68.7mm] Faceplate: 2.8in x 0.12in x 4.5in [69.9mm x 3mm x 114.3mm] Receiver: 3.5in x 2.4in x 0.71in [88mm x 61mm x 18mm]
Weight	Wall plate: 0.43 lbs [195g], Receiver: 0.34 lbs [155g]
Power Supply	POE (only from Receiver to Transmitter)
Power Consumption	Wall plate: 3W (Max), Receiver: 3.72W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Industry-Leading Warranty & Support

BZBGEAR Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years. We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

