

BG-USX-WP150HC

4K UHD 18GBPS HDMI/USB-C SWITCHER & HDBASET 3.0 EXTENDER KIT WITH AUTO SWITCHING/BI-DIRECTIONAL POC/IR/RS-232 AND AUDIO DE-EMBEDDING UP TO 492FT

The BG-USX-WP150HC is a professional 2x1 HDBaseT extender that transmits 4K@60Hz 4:4:4 HDMI and USB-C video signals over a single CAT6/6A cable. Featuring a convenient 1-gang wall plate transmitter with both HDMI and USB-C inputs, it supports transmission distances of up to 120m (394ft) for 4K content and 150m (492ft) for 1080p, making it ideal for classrooms, conference rooms, digital signage, and commercial AV installations.

Built for seamless system integration, the BG-USX-WP150HC supports automatic or manual input switching, bi-directional Power over Cable (PoC), IR and RS-232 pass-through, CEC control, and analog audio de-embedding. With full HDMI 2.0b compliance, 18Gbps bandwidth, HDR support, and HDCP 2.2 compatibility, it delivers reliable, high-quality AV distribution for modern professional environments.



FEATURES



4K60 HDBASET EXTENSION

Transmits 4K@60Hz 4:4:4 video up to 120m (394ft) or 1080p up to 150m (492ft) over a single CAT6/6A cable



DUAL HDMI & USB-C

Features a 1-gang wall plate transmitter with HDMI and USB-C inputs for flexible source connectivity and BYOD applications



BG-USX-WP150HC

Supports full 18Gbps bandwidth with HDMI 2.0b and HDCP 2.2 compliance for uncompromised AV performance



SMART SOURCE SWITCHING

Supports automatic input detection and manual source selection for seamless operation between connected devices



CONTROL & INTEGRATION

Includes bi-directional PoC, RS-232 pass-through, bi-directional IR extension, and HDMI CEC support



HDR & ADVANCED AUDIO

Compatible with HDR10, HDR10+, Dolby Vision, HLG, LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio for premium audio and video quality



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Maximum Video Resolution	Up to 4K2K@60Hz (4:4:4), supports 1080p and PC resolutions up to 1920x1200
Color Depth	8-bit / 10-bit / 12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDR Support	HDR, HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM 2.0-7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS-ES, DTS-HD HRA, DTS-HD Master Audio, DTS-X
Analog Audio Output	LPCM 2.0CH (via receiver 3.5mm output)
IR Frequency Range	20 - 60kHz (wideband)
IR Level	5Vp-p
Transmission Distance	Up to 120m (4K@60Hz), up to 150m (1080p) over CAT6/6A
ESD Protection	IEC 61000-4-2: ±8kV air discharge, ±4kV contact discharge

INTERFACES (TRANSMITTER)

HDMI Input	1x HDMI Type-A (Female), up to 4K60
USB-C Input	1x USB-C (video input support up to 4K60)
HDBaseT Output	1x RJ45 port
RS-232	1x 3-pin Phoenix connector
IR Input	1x 3-pin Phoenix connector
IR Output	1x 2-pin Phoenix connector
DC Power Input	24V/1A
PoC Switch	ON/OFF selectable bi-directional PoC

INTERFACES (RECEIVER)

HDBaseT Input	1x RJ45 port
HDMI Output	1x HDMI Type-A (Female)
Audio Output	1x 3.5mm stereo jack (analog de-embedded audio)
IR Input	1x 3.5mm stereo jack
IR Output	IR Output
RS-232	1x 3-pin Phoenix connector
Service Port	1x Mini-USB (firmware update)
DC Power Input	24V/1A

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](https://www.bzbgear.com/warranty).
For questions, please call 1.888.499.9906 or email support@bzbgear.com.

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3-YEAR WARRANTY
Cables Products
LIFETIME WARRANTY





TECH SPECIFICATIONS

HARDWARE SPECIFICATIONS

Housing	Metal Enclosure
Transmitter Dimensions	2.7 x 1.5 x 4.5 in [69.8 x 39 x 114 mm]
Receiver Dimensions	5.5 x 2.6 x 0.71 in [140 x 65 x 18 mm]
Transmitter Weight	0.45 lb [203 g]
Receiver Weight	0.34 lb [155 g]
Color	Transmitter: White + Black / Receiver: Black

POWER SPECIFICATIONS

Power Supply	AC 100–240V, 50/60Hz to DC 24V/1A
Power Consumption (TX)	Max 4.5W
Power Consumption (RX)	Max 4.7W
PoC Support	Bi-directional Power over Cable

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	-4°F to 140°F / -20°C to 60°C
Operating Humidity	20%–80% RH non-condensing
Storage Humidity	10%–90% RH non-condensing



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