BZB**2**GEAR®

Solutions to Amplify Your World™

BG-EXD-150C

4K UHD DISPLAYPORT HDBASET LONG RANGE EXTENDER WITH BI-DIRECTIONAL IR RS-232 AND CEC

The BG-EXD-150C is a 4K60 DisplayPort (DP) range extender capable of transmitting DP video, bi-directional IR, and RS-232 control signals, as well as USB KVM signals. It can transmit signals over distances of up to 328ft/100m for a 4K60 signal and 492ft/150m for a 1080P signal using a single CAT6 cable.

The BG-EXD-150C converts the DP signal into a standard HDBaseT signal, transmitting it via a LAN cable. Users can easily control the signal source device or the display device using a remote, thanks to the bi-directional IR signal pass-through feature. The extender supports video resolutions of up to 4K2K@60Hz YUV 4:4:4 and also provides a bi-directional POC function.

Furthermore, with support for DisplayPort 1.2, this extender facilitates the transmission of visually lossless 4K Ultra HD resolutions, making it ideal for striking digital signage or detailed content in medical settings. The extender is also compatible with lossless audio formats, including Dolby TrueHD and DTS-HD, enhancing video content with powerful multi-channel sound, thus elevating the viewer's experience.

The USB KVM connectivity ensures full control of a DisplayPort PC from a local console, which can be kept in a secure or temperature-controlled environment, all while seamlessly delivering consistent video content to the display.

FEATURES

COMPLIANT
DisplayPort 1.2a and HDCP 2.2 compliant

4K UHD
Video resolution up to 4K2K@60Hz YUV 4:4:4

LONG RANGE
Signal transmission distance up to 328ft/100m for 4K60 signals or 492ft/150m for 1080P signals via a single CAT6 cable
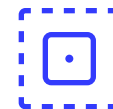
AUDIO FORMATS
LPCM 2.0 (96KHz), Dolby Digital Plus 5.1CH and DTS-HD Master 7.1CH

INTUITIVE CONTROL
Control a remote DisplayPort PC via keyboard and mouse with the KVM function

COMPACT DESIGN
For easy and flexible installation

TECH SPECIFICATIONS

Technical

DP Compliance	DP 1.2a
HDCP Compliance	HDCP 2.2
Video Bandwidth	Up to 21.6Gbps
Video Resolution	Up to 4K@60Hz YUV 4:4:4
USB Compliance	USB 1.1
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	LPCM 2.0 (96KHz), Dolby Digital Plus 5.1CH and DTS-HD Master 7.1CH
IR Level	5Vp-p/12Vp-p
IR Bandwidth	20K - 60KHz
Transmission Distance	1080P@60Hz - 492ft /150m, 4K@60Hz - 328ft /100m
ESD Protection	Human body model: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connections

Transmitter	**Input:** 1 x DP IN [20-pin female] **Output:** 1 x HDBT OUT [RJ45, 8-pin female] **Control:** 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3 pin-3.81mm Phoenix jack] 1 x PC [USB-A] 1 x Service [Micro USB]
Receiver	**Input:** 1 x HDBT IN [RJ45, 8-pin female] **Output:** 1 x DP OUT [20-pin female] **Control:** 1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [3 pin-3.81mm Phoenix jack] 2 x USB 1.1 [USB-A] 1 x Service [Micro-USB]

Mechanical

Housing	Enclosure - Metal Composite
Color	Black
Dimensions (WxDxH)	5.5in x 2.6in x 0.71in [140mm x 65mm x 18mm]
Weight	0.5 lbs (8oz) [0.45kg]
Power Supply	DC 24V/1A (US/EU standard, CE/FCC/ UL certified), Bi-directional POC
Power Consumption	Total power consumption: 13.2w
Operating Temperature	32° - 104°F / 0° - 40°C
Storage Temperaturel	-4° - 140°F / -20° - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Resolution

Resolution	8K30	4K60	4K24	1080P60
Cable Length	9.8ft / 3m	16ft / 5m	32ft / 10m	66ft / 20m

NOTE: The use of "Premium High Speed" HDMI 2.1 cables is highly recommended.

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.

LIFETIME
PRODUCT SUPPORT

PRO AV	CAMERAS
3	**5**
YEAR WARRANTY	YEAR WARRANTY

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