



BG-EXH-8KF

8K UHD HDMI 2.1 OVER FIBER EXTENDER -
8K60/4K120HZ WITH IR/RS-232/EDID MANAGER/
AUDIO EMBEDDER/DE-EMBEDDER

Introducing the BG-EXH-8KF, a cutting-edge HDMI over Fiber extender that redefines your audiovisual experience. This advanced extender is HDMI 2.1 and HDCP 2.3 compliant, ensuring seamless connectivity and support for the latest technologies.

The BG-EXH-8KF HDMI over Fiber extender is a cutting-edge solution that caters to gamers, home theater enthusiasts, and professional integrators alike. With support for advanced gaming features like VRR, ALLM, QMS, QFT, and SBTM, gamers can enjoy a seamless and immersive experience. Home theater enthusiasts benefit from unparalleled video quality, including 8K@60 4:2:0 12-bit and 4K@120Hz 4:4:4 12-bit video transmission, along with comprehensive HDR support for vivid visuals.



FEATURES



COMPLIANT

HDMI 2.1, HDCP 2.3 compliant



8K AND 4K@120HZ

Supports 8K@60 4:2:0 12-bit, 4K@120Hz
4:4:4 12-bit



MULTIPLE AUDIO FORMATS

Supports HDMI audio formats including
Dolby Atmos, Dolby TrueHD, Dolby



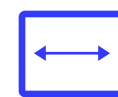
HDMI 2.1 EXCLUSIVE FEATURES

VRR, ALLM, QMS, QFT, and SBTM are
supported



CONTROL OPTIONS

Bi-directional IR & RS-232 pass-through,
EDID management



LONG DISTANCE

Extend your 8K or 4K@120Hz signal up to
300M



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60 4:2:0 12-bit, 4K@120Hz 4:4:4 12-bit
Color Space	RGB 4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Color Depth	8/10/12-bit
Audio Formats	HDMI IN/OUT: PCM 2.0, LPCM 5.1, LPCM 7.1, (32K/44.1K/48K/88.2K/96K/176.4K/192K) (16/20/24); Dolby Digital, Dolby Digital plus, Dolby TrueHD, Dolby Atmos; DTS Surround, 96/24, ES, DTS Express, DTS-HD HRA, DTS HD Master, DTS:X; AUDIO BREAKOUT: L/R OUT: PCM 2.0CH
Optical Fiber Transmission Distance	OM2: 40m/131ft OM3: 200m/656ft OM4: 300m/985ft (over 850nm OM2/3/4 multi-mode fiber optic cable)
IR Level	IR IN: 12V; Level: 3.2.04.00219 IR OUT: 5V; Level: 3.2.04.00093
IR Frequency	Wideband 20K-60KHz
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)

Connection

Transmitter	Input: 1x HDMI IN [Type A, 19-pin female] 1x IR IN [3.5mm audio jack] Output: 1x HDMI OUT [Type A, 19-pin female] 1x IR OUT [3.5mm audio jack] 1x FIBER [LC] Control: 1x RS-232 [3pin-3.5mm phoenix connector] 1x SERVICE [USB-C, update port]
Receiver	1 x TV(eARC) OUT [HDMI Type A, 19-pin female] 1 x Soundbar eARC OUT [HDMI Type A, 19-pin female]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	Transmitter / Receiver: 6.9in x 3.9in x 1.2in [175mm x 100mm x 30mm]
Weight	Transmitter: 1.09 lbs [496g]; Receiver: 1.08 lbs [492g]
Power Supply	Input: AC 100~240V 50/60Hz; Output: DC 12V/1A
Power Consumption	Transmitter: 6.7W (Max); Receiver: 4.5W (Max)
Operating Temperature	32° - 104°F / 0° - 40°C
Storage Temperature	-4° - 140°F / -20° - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Recommended HDMI Cable	8K	4K60	4K24	1080P
HDMI Cable Length (HDMI in / out)	3m/10ft (Ultra HDMI 2.1)	8m/26ft	12m/39ft	15m/49ft

The use of "Premium High-Speed HDMI" cables is highly recommended.

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. For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Pro Line Products
5-YEAR WARRANTY

Essential Line Products
3-YEAR WARRANTY

Cables Products
LIFETIME WARRANTY