



## BG-8K-DA12A-G2

1X2 8K UHD HDMI 2.1 48GBPS SPLITTER WITH  
AUTO DOWNSCALING/AUDIO DE-EMBEDDER  
(8K60/4K120 AND VRR/FVA/ALLM SUPPORT)

The BG-8K-DA12A-G2 is a high-performance 1x2 HDMI 2.1 splitter designed to distribute a single HDMI source to two displays without compromising video or audio quality. Supporting resolutions up to 8K@60Hz (4:2:0, 12-bit) and 4K@120Hz (4:4:4, 12-bit) with 48Gbps FRL bandwidth, this device ensures stunning visual clarity and fluid motion for both home entertainment and professional AV setups. Its HDCP 2.3 compliance guarantees seamless content protection, making it ideal for high-definition streaming, gaming, and presentation applications.

Engineered for superior performance, the BG-8K-DA12A-G2 integrates cutting-edge technologies, including HDR, HDR10+, Dolby Vision, and HLG pass-through, to deliver deeper contrast, vibrant colors, and enhanced image quality. Gamers will benefit from VRR (Variable Refresh Rate), FVA (Fast VActive), and ALLM (Auto Low Latency Mode), ensuring smooth gameplay and reduced input lag. Additionally, built-in audio de-embedding extracts high-fidelity audio via optical (S/PDIF) and 3.5mm analog outputs, offering versatile sound output options for home theaters and professional AV setups.



## FEATURES



### 8K HDMI 2.1 SUPPORT

Supports up to 8K@60Hz (4:2:0, 12-bit) and 4K@120Hz (4:4:4, 12-bit) for ultra-smooth visuals and deep color



### HDCP 2.3 COMPLIANCE

Secures content protection for streaming devices, gaming consoles, and Blu-ray players



### HDR & ADVANCED VIDEO

Supports HDR, HDR10+, Dolby Vision, and HLG for enhanced brightness, contrast, and color depth



### CONTENT-OPTIMIZED

Features VRR, FVA, and ALLM for reduced lag and screen tearing



### AUDIO DE-EMBEDDING

Extracts audio via optical (S/PDIF) and 3.5mm analog outputs for external sound systems



### ADVANCED EDID MANAGEMENT

Customizable EDID settings ensure seamless source-display communication



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3, HDCP 1.4
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12bit
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Audio Formats	<b>HDMI Input/Output:</b> LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD Technical <b>Audio De-embedded Output:</b> Optical: LPCM/Dolby/DTS 5.1CH Analog: LPCM 2CH
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	<b>IEC 61000-4-2:</b> ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection

Input	1 x HDMI IN [Type A, 19-pin female]	<b>Housing</b>	Metal Enclosure
Output	2 x HDMI OUT [Type A, 19-pin female] 1 x OPTICAL [S/PDIF] 1 x L/R [3.5mm Stereo Mini-jack]	<b>Dimensions (W x D x H)</b>	5.7in x 2.7in x 0.67in [145mm x 68mm x 17mm]
Control	1 x SERVICE [USB Type C, Update port]	<b>Weight</b>	0.57 lbs [260g]
		<b>Power Supply</b>	<b>Input:</b> AC 100-240V 50/60Hz, <b>Output:</b> DC 5V/2A (US/EU standards, CE/FCC/UL certified)
		<b>Power Consumption</b>	4.5W (Max)
		<b>Operation Temperature</b>	32°F ~ 104°F / 0°C ~ 40°C
		<b>Storage Temperature</b>	-4°F ~ 140°F / -20°C ~ 60°C
		<b>Relative Humidity</b>	20~90% RH (non-condensing)

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

Pro Line Products  
**5-YEAR WARRANTY**  
Essential Line Products  
**3-YEAR WARRANTY**  
Cables Products  
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