

BG-8K-1212MA

12X12 8K UHD HDMI 2.1 MATRIX SWITCHER WITH AUDIO DE-EMBEDDER (8K60, 4K120 4:4:4 10-BIT VRR, FVA, ALLM SUPPORT)

The BG-8K-1212MA 8K HDMI matrix switch is an excellent device for situations where you need to share up to twelve HDMI sources with up to twelve displays. It comes with twelve HDMI 2.1a inputs and twelve HDMI 2.1a outputs, allowing you to switch between multiple sources and display them on various screens at the same time, or select one source and display it on all screens simultaneously with the push of a button. The device supports 8K resolutions and various high-quality audio formats, ensuring professional-grade picture and audio quality.

For gamers, the ability to display high-resolution graphics at high frame rates is crucial for a smooth and immersive gaming experience. With support for 4K resolution at 120Hz, the BG-8K-1212MA can help ensure that your games are displayed with the highest level of detail and fluidity. This is particularly important for fast-paced games where a high frame rate can make a significant difference in your ability to react to in-game events. Whether you're playing competitively or just looking for the most realistic and engaging gaming experience possible, the 8K HDMI 12x12 matrix switcher's support for 4K at 120Hz can help you get the most out of your favorite games.



FEATURES



12X12 ROUTING

Features 12 x HDMI inputs which can be independently routed to 12 x HDMI outputs



HDCP COMPLIANT

HDMI 2.1a (48Gbps) HDCP 2.3 (and all earlier versions supported)



8K AND 4K@120HZ

Up to 8K@60Hz 4:2:0, 8K@30Hz 4:4:4 and 4K@120Hz 4:4:4 8K to 4K or 8K/4K to 1080p



AUTO SCALING

Down Scaling on all outputs



CONTROL OPTIONS

Control via front panel, IR, RS-232, and TCP/IP (Web GUI)



EDID MANAGEMENT

Seamless scaling for the best results



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	1200MHz/48Gbps
Video Resolution	Up to 8K60Hz 4:2:0, 8K30Hz 4:4:4 and 4K120Hz 4:4:4
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Color Depth	8/10/12-bit
HDR Formats	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI In/Out: LPCM 2.0, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS High Res, DTS-HD Master Audio, DSD Optical Outputs: LPCM 2.0, Dolby, DTS 5.1 Balanced Analog Audio Outputs: LPCM 2.0
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection

Input ports	12 × HDMI [Type A, 19-pin female]
Output ports	12 × HDMI [Type A, 19-pin female] 12 × S/PDIF Optical 12 x Balanced Stereo Audio [3.81mm, 5-pin Phoenix Connector]
Control ports	1 × TCP/IP [RJ45] 1 × RS-232 [D-Sub 9] 1 × IR EXT [3.5mm, Stereo Mini-jack]

Mechanical

Housing	Metal Enclosure
Color	Black
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20~90% RH (non-condensing)

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.

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