



BG-4K-1616MA

16X16 4K UHD HDMI 2.0 MATRIX SWITCHER WITH AUDIO DE-EMBEDDING AND INDEPENDENT ROUTING (4K60 - 4:4:4 AND HDR SUPPORT)

The BG-4K-1616MA 4K HDMI matrix switcher is designed to manage up to sixteen HDMI 2.0 inputs and sixteen HDMI 2.0 outputs, enabling the seamless distribution of multiple HDMI sources to various displays. Whether you need to switch between multiple sources or display a single source on all screens simultaneously, this matrix switcher offers the flexibility and control you need. Audio can also be independently routed. Experience professional-grade picture and audio quality with support for 4K resolutions and a wide range of high-quality audio formats.

Connectivity and Quality: The BG-4K-1616MA supports ultra-high resolutions up to 4K@60Hz 4:4:4 with HDR. With 18 Gbps of uncompressed bandwidth, HDMI signals are routed without any loss of quality. All HDMI ports on this matrix switcher are HDCP 2.2 compliant, ensuring compatibility with modern content protection standards. It also features auto-downscaling on all outputs to ensure compatibility with older displays. Furthermore, the BG-4K-1616MA supports Digital S/PDIF and Balanced audio output formats for versatile audio integration.



FEATURES



HDCP COMPLIANT

HDMI 2.0 (18Gbps) HDCP 2.2 (backward compatible with earlier versions)



4K RESOLUTION

Supports up to 4K@60Hz 4:4:4 with HDR



AUDIO MATRIXING

The audio can be independently routed



CONTROL OPTIONS

Front panel, IR, RS-232, and TCP/IP (Web GUI) controls



EDID MANAGEMENT

Ensures seamless scaling for optimal display results



HDR PASS-THROUGH

HDR, HDR10, and Dolby Vision pass-through



TECH SPECIFICATIONS

Video Specifications

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K60Hz 4:4:4 **All available resolutions are shown in the table below**
Color Space	RGB, 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 LLM, HLG

Audio Formats

HDMI IN/OUT	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Audio Breakout (Optical Outputs)	Up to LPCM/Dolby/DTS 5.1CH
Audio Breakout (Analog Audio Outputs)	LPCM 2CH (sample rate 32~192kHz)

Connection

Input ports	16x INPUT [HDMI Type A, 19-pin female]
Video Output Ports	16x OUTPUT [HDMI Type A, 19-pin female]
Audio Output Ports	16x AUDIO OUT [RCA]

Control ports

Network	1x TCP/IP [RJ45]
Serial	1x RS-232 [D-Sub9]
IR	1x IR EXT [3.5mm audio jack]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (W x D x H)	17in x 10in x 1.8in [440mm x 256mm x 44.5mm]
Weight	11 lbs [4.9kg]
Power Supply	Input: AC 100 - 240V 50/60Hz, Output: DC 24V/5A (US/EU standard, CE/FCC/UL certified)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Power Consumption	99.6W (Max)

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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3-YEAR WARRANTY

Cables Products
LIFETIME WARRANTY





Operating

Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing
HDMI Cable Length (IN / OUT)	4K60: 5m/16ft
	4K30: 10m/33ft
	1080P: 15m/49ft

Note: The use of "Premium High Speed HDMI" cable is highly recommended.

Support Resolution and Refresh Rates

Resolution Category

PC / VESA

SD
HD (720p)

Full HD (1080)

UHD (3840x2160)

DCI 4K (4096x2160)

Supported Resolutions & Refresh Rates

640x480p60, 800x600p60, 1024x768p60, 1280x1024p60,
1360x768p60, 1440x900p60, 1440x1050p60, 1600x1200p60

720x480i/p59.94, 720x576i/p50

1280x720p50/59.94/60

1920x1080i50/59.94/60,
1920x1080p23.98/24/25/29.97/30/50/59.94/60

2160p23.98/24/25/29.97/30/50/59.94/60

23.98/24/25/29.97/30/50/59.94/60



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