



BG-4K-44MA

4X4 4K UHD HDMI 2.0 MATRIX SWITCHER WITH AUDIO DE-EMBEDDING/INDEPENDENT ROUTING AND IR MATRIXING (4K60 - 4:4:4 AND HDR SUPPORT)

With four HDMI 2.0 inputs and four HDMI 2.0 outputs, the BG-4K-44MA 4K HDMI matrix switch allows users to share up to four HDMI sources with up to four displays. Perfect for when you need to change multiple sources to show on various displays or even select just one source to show on all displays with the press of a button. Audio can also be independently routed. Professional-grade picture and audio quality are achieved with support for 4K resolutions and various high-quality audio formats.

Connectivity and Quality: The BG-4K-44MA supports high resolutions up to 4K@60Hz 4:4:4 with HDR. With 18 Gbps of uncompressed bandwidth, HDMI signals are routed with no loss of quality. All HDMI ports on this matrix are HDCP 2.2 compliant. This device is also equipped with auto-downscaling on all outputs, ensuring compatibility with legacy displays. The BG-4K-44MA also supports Digital S/PDIF and Balanced audio output formats.

DIREKTRONIK



FEATURES



HDCP COMPLIANT

HDMI 2.0 (18Gbps) HDCP 2.2 (and all earlier versions supported)



4K@60HZ

Up to 4K@60Hz 4:4:4 with HDR. Supports downscaling to 1080p



AUTO SCALING

Downscaling on all outputs



CONTROL OPTIONS

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



HDR PASS-THROUGH

HDR10, HDR10+, Dolby Vision pass-through supported



AUDIO MATRIXING

The audio can be independently routed





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 **Please see all supported resolutions in the chart 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
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Audio Breakout

Optical Outputs	Up to LPCM/Dolby/DTS 5.1CH
Analog Audio Outputs	LPCM 2CH (sample rate 32~192kHz)

Connection

Input Ports	4x INPUT [HDMI Type A, 19-pin female] 4x IR IN [3.5mm audio jack]
Output Ports	4x OUTPUT [HDMI Type A, 19-pin female] 4x OPTICAL AUDIO OUT 4x L/R AUDIO OUT [5-pin phoenix connector] 4x IR OUT [3.5mm audio jack]
Control Ports	1x TCP/IP [RJ45] 1x RS-232 [D-Sub9] 1x IR EXT [3.5mm audio jack]

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (W x D x H)	16in x 8.1in x 1.8in [440mm x 206mm x 44.5mm]
Weight	6.8 lbs [3.1kg]
Power Supply	Input: AC 100 - 240V 50/60Hz, Output: DC 24V/2A (US/EU standard, CE/FCC/UL certified)
Power Consumption	27.4W (Max)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

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



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 Requirements

HDMI Cable Length (IN / OUT)	4K60: 5m/16ft 4K30: 10m/33ft 1080P: 15m/49ft
Recommendation	The use of "Premium High Speed HDMI" cable is highly recommended

Support Resolution and Refresh Rates

Resolution Category	Supported Resolutions & Refresh Rates
PC / VESA	640x480p60, 800x600p60, 1024x768p60, 1280x1024p60, 1360x768p60, 1440x900p60, 1440x1050p60, 1600x1200p60
SD	720x480i/p59.94, 720x576i/p50
HD (720p)	1280x720p50/59.94/60
Full HD (1080)	1920x1080i50/59.94/60, 1920x1080p23.98/24/25/29.97/30/50/59.94/60
UHD (3840x2160)	2160p23.98/24/25/29.97/30/50/59.94/60
DCI 4K (4096x2160)	23.98/24/25/29.97/30/50/59.94/60



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