



## BG-UHD-VW2X2A

2X2 4K UHD HDMI/USB-C SWITCHER AND VIDEO WALL CONTROLLER WITH AUDIO DE-EMBEDDING

The BG-UHD-VW2x2A 18Gbps 1x4 Video Wall Controller is a versatile and powerful solution for creating stunning video wall displays. Designed to capture, convert, route, and distribute all-format signals to video walls with true digital signal transmission, this controller supports HDMI and USB-C inputs with resolutions up to 4K@60Hz 4:4:4, and provides four HDMI outputs.

It supports multiple video wall modes and includes optical audio and L/R analog audio de-embedding outputs. Operation is simple and convenient via front panel buttons, an IR remote, and RS-232 commands.



## FEATURES



### VIDEO STANDARD COMPLIANT

Ensures compatibility with the latest high-definition video standards, including HDMI 2.0, HDCP 2.2, and DP 1.2a



### HIGH-RESOLUTION SUPPORT

Accepts HDMI and USB-C inputs with resolutions up to 4K@60Hz 4:4:4 for crystal-clear image quality



### AUDIO DE-EMBEDDING

Supports optical audio and L/R analog audio de-embedding outputs for enhanced audio flexibility



### PLUG AND PLAY

Easy setup with no drivers or installation settings required, making it a hassle-free solution for any video wall application



### MULTIPLE VIDEO WALL MODES

Supports 8 video wall splicing modes including 1x1, 2x1, 3x1, 4x1, 1x2, 1x3, 1x4, and 2x2 configurations



### FLEXIBLE CONTROL OPTIONS

Operate the controller via front panel buttons, an IR remote, and RS-232 commands for ultimate convenience



# TECH SPECIFICATIONS

## Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Input: up to 4K@60Hz 4:4:4 Output: 720P60Hz, 1080P60Hz, 4K30Hz, 1024x768P60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12 bit
IR Level	5Vp-p
IR Frequency	38KHz
Audio Formats	<b>HDMI Input/Output:</b> LPCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, DTS, DTS-EX, DTS-96/24 <b>L/R OUT:</b> PCM 2.0 <b>SPDIF(OPTICAL):</b> Dolby Digital/plus, DTS 5.1, PCM 2.0
Audio Latency	No Latency
Video Latency	No Latency
ESD Protection	Human body model – ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

## Connection

Input	1 x HDMI INPUT [Type A, 19-pin female] 1 x USB-C INPUT [Type C, 24-pin female]
Output	4 x HDMI OUTPUT [Type A, 19-pin female] 1 x OPTICAL AUDIO OUT [S/PDIF] 1 x L/R AUDIO OUT [RCA]
Control	1 x 1 x RS-232 [3pin-3.81mm phoenix connector] 1 x IR EXT [3.5mm, Stereo Mini-jack] SERVICE [USB Type C, Update port]

## Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	8.7in x 3.9in x 1.2in [220mm x 100mm x 30mm]
Weight	1.3 lbs [590g]
Power Supply	<b>Input:</b> AC 100-240V 50/60Hz, <b>Output:</b> DC 12V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	5.5W (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	4K60	4K24	1080P60
HDMI Cable Length (HDMI in / out)	8m/26ft	10m/32ft	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).

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