

## 4x4 HDMI Matrix Switch with Video Wall Controller - 4K 60 Hz, 4 HDMI Inputs, 4 HDMI Outputs, HDR, 4:4:4, Multi-Resolution Support

MODEL NUMBER: **B119-4X4-4K6-VW**



Extends 4K video to 4 HDMI displays in video wall configuration or functions as a 4x4 matrix switch.

### Features

#### Extends 4K Video in 2 Operational Modes: 4x4 Matrix and Video Wall

This Matrix Switch is a multi-purpose high-speed video processing system that you can configure for two different output modes: 4x4 matrix (with seamless switching) and video wall. It features four HDMI inputs with resolution up to 4K at 60 Hz and four HDMI outputs to create 10 video wall modes: 2x2, 1x2-2, 1x2, 2x1-2, 2x1, 1x3, 1x4, 3x1, and 4x1. You can set display modes via front-panel buttons, the included IR remote, RS-232 commands or TCP/IP. Access the web GUI to visualize content shared over multiple displays.

#### Transmits 4K Video with HDR and 4:4:4 Color

The B119-4X4-4K6-VW supports Ultra HD 4K resolutions at 60 Hz with LPCM, Dolby Digital/Plus/EX and DTS audio. It supports HDR (High Dynamic Range), providing a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.2 encryption allows you to stream 4K content with no loss in resolution. This switch also supports uncompressed 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor.

#### Multi-Resolution Support Allows Mixing and Matching of Displays of Different Resolutions

Say you have a brand new 4K/60 Hz HDTV in the living room, but want to also connect your Blu-ray player or media server to the older 1080p TV in the kitchen and the 4K/30 Hz monitor in your home office. The B119-4X4-4K6-VW is backward compatible with 4K/30 Hz and 1080p resolutions via automatic switching, allowing each connected television to display video at its maximum resolution without affecting the other outputs.

#### Plug-and-Play Operation for Quick Setup and Immediate Use

The unit works right out of the box with no software required. Mounting hardware is included for installing the units on a wall, under a desk or in a 19-inch rack. Connect up to four 4K source devices to the HDMI inputs and up to four 4K displays to the HDMI outputs with user-supplied cables. The external power supply comes with four international plug adapters to ensure an AC connection anywhere.

## Specifications

### Highlights

- Features 2 operational modes: 4x4 matrix (seamless switch) and video wall
- Supports HDMI input/output with UHD resolutions up to 4K @ 60 Hz (4:4:4)
- Supports multi-resolution output to allow for combination of different display types
- Allows flexible control via front-panel buttons, IR remote, RS-232 commands or TCP/IP
- Plug-and-play operation with no software required for easy, immediate installation

### System Requirements

- Source device(s) with HDMI output (media server, Blu-ray player, laptop, cable/satellite box)
- Display device(s) with HDMI input (HDTV, monitor, projector)
- All connected devices and cabling must support 4K to achieve 4K resolution

### Package Includes

- HDMI Matrix Switch/Splitter
- IR remote
- IR receiver cable, 5 ft. (1.5 m)
- 3-pin RS-232 Phoenix connector
- External power supply (Input: 100–240V, 50/60 Hz, 0.8A; Output: 12V 2.5A) with 4 ft. (1.2 m) cord
- (4) International plug adapters
- (4) Machine screws
- (2) Mounting brackets
- Installation instructions

| OVERVIEW                                  |   |
|---|---|
| UPC Code                                  | 037332291134  |
| Product Type                              | Video Wall Processor  |
| Technology                                | HDMI  |
| VIDEO                                     |   |
| Number of Monitors Supported              | 4   |
| Video Ports                               | (4) HDMI (FEMALE)   |
| Max Supported Video Resolution            | 3840 x 2160 (4K @ 60Hz)   |
| Max Supported Color Depth                 | 12-bit  |
| HDR Support                               | Yes   |
| 3D Video Supported                        | Yes   |
| Chroma Sub Sampling                       | 4:2:0; 4:2:2; 4:4:4   |
| Bandwidth                                 | 18 Gbps   |
| AUDIO                                     |   |
| Audio Input                               | HDMI  |
| Audio Specification                       | LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio |
| INPUT                                     |   |
| AC Power Adapter Plug(s)                  | AS/NZS 3112 Australia; BS 1363 UK; CEE 7/7 Schuko; NEMA 1-15P North America                           |
| AC Power Adapter Input Specs (V / Hz / A) | 100-240V / 50/60Hz / 0.8A   |
| AC Power Adapter Output Specs (V / A)     | 12V / 2.5A  |
| AC Power Adapter Cord Length (ft.)        | 4   |
| AC Power Adapter Cord Length (m)          | 1.2   |
| Voltage Compatibility (VAC)               | 100; 110; 125; 127; 200; 208; 220; 230; 240   |
| Input Frequency                           | 50/60Hz   |
| Redundancy - Dual Power Inputs            | No  |
| Bus Powered                               | No  |
| OUTPUT                                    |   |
| Frequency Compatibility                   | 50 / 60 Hz  |
| POWER                                     |   |
| Power Source Type                         | AC Adapter  |
| AC Plug Type                              | AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P  |



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|--|--|
| Power Over Cable (PoC) Support               | No   |
| Power Consumption (Watts)                    | 19.56  |
| <b>CONNECTIONS</b>                           |  |
| Number of Ports                              | 4  |
| Firmware Upgrade Port                        | Yes, RS-232 3-Pin Phoenix Connector. Connects to a PC or control system for serial port upgrade or RS-232 command control. |
| Side A - Connector 1                         | (4) HDMI (FEMALE)  |
| Side B - Connector 1                         | (4) HDMI (FEMALE)  |
| Connector Plating                            | Nickel   |
| Contact Plating                              | Nickel   |
| Input x Output                               | 4 x 4  |
| Daisy-chainable / Cascadable                 | No   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |  |
| LED Indicators                               | Green = Normal Operation; Red = Standby  |
| <b>PHYSICAL</b>                              |  |
| Color  | Black  |
| Material of Construction                     | Metal  |
| Housing Color                                | Black  |
| Rackmountable                                | No   |
| Shipping Dimensions (hwd / in.)              | 3.54 x 13.89 x 9.17  |
| Shipping Dimensions (hwd / cm)               | 9.00 x 35.30 x 23.30   |
| Shipping Weight (lbs.)                       | 4.51   |
| Shipping Weight (kg)                         | 2.05   |
| Unit Dimensions (hwd / in.)                  | 1.200 x 10.600 x 6.500   |
| Mounting Details                             | Surface mount bracket and screws   |
| <b>ENVIRONMENTAL</b>                         |  |
| Operating Temperature Range                  | 32° to 104°F (0° to 40°C)  |
| Storage Temperature Range                    | -4° to 140°F (-20° to 60°C)  |
| Relative Humidity                            | 20 to 90% RH (Non-Condensing)  |
| <b>COMMUNICATIONS</b>                        |  |
| Port Control                                 | Push Buttons, Remote Control or RS-232 Serial  |
| EDID Compatible                              | Yes  |
| IR Remote Extension Support                  | Yes  |



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| RS-232 Serial Extension Support              | No                                       |
| Consumer Electronics Control (CEC) Supported | Yes                                      |
| Latency                                      | No Latency                               |
| <b>FEATURES &amp; SPECIFICATIONS</b>         |  |
| 10/100 Ethernet Extension Support            | No                                       |
| Integrated/Removable Cable                   | No                                       |
| MST Support                                  | No                                       |
| Mounting Accessory Included                  | Yes                                      |
| Multi-Resolution Support                     | Yes                                      |
| On-Screen Display (OSD)                      | No                                       |
| Port Selection                               | Pushbutton                               |
| HDCP Specification                           | 2.2                                      |
| Driver Required                              | No                                       |
| DIN Mountable                                | No                                       |
| IR Frequency Range                           | 38 kHz                                   |
| <b>STANDARDS &amp; COMPLIANCE</b>            |  |
| External Power Supply Certifications         | CE; FCC; UL                              |
| Product Compliance                           | CE (Europe); FCC (USA); RoHS; UKCA; WEEE |
| <b>WARRANTY &amp; SUPPORT</b>                |  |
| Product Warranty Period (Worldwide)          | 3-year limited warranty                  |

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