4x4 HDMI Matrix Switch with Video Wall Controller - 4K 30 Hz, 4 HDMI Inputs, 4 HDMI Outputs, 4:4:4, TAA

MODEL NUMBER: **B119-4X4-4K-VWL**

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

Features

Extends 4K Video from 4 HDMI Sources to 4 HDMI Monitors or HDTVs
The B119-4X4-4K-VWL is a 4x4 seamless matrix switch that can also be used as a video wall processor. In switch mode, it can display any of the four HDMI inputs on any of the four HDMI output displays at 4K resolution. In video wall mode, it divides one display across two to four devices at 1080p resolution, creating a super-display of multiple screens. It is ideal for video wall applications in retail settings, concert venues, restaurants and bars, hotels, offices, houses of worship and other applications where large, visually appealing displays are needed.

2 Operational Modes: 4x4 Matrix and Video Wall
This Matrix Switch features four 4K/30 Hz HDMI inputs and four HDMI outputs to create 10 unique video wall splicing modes: 2x2, 2x1, 2x1-2, 1x2, 1x2-2, 3x1, 4x1, 1x3, 1x4 and matrix. Output resolutions can be upscaled or downscaled to 720p, 1080p, 1920 x 1200 or 4K/30 Hz. Seamless video switching ensures no delay or picture loss during transitions. You can set display modes via front-panel buttons, the included remote or RS-232 commands.

Transmits 4K Video with 4:4:4 Color
The B119-4X4-4K-VWL supports Ultra HD 4K resolutions at 30 Hz with LPCM, Dolby Digital/Plus and DTS audio. HDCP 1.4 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.

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 unit on a wall or other flat surface. 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.

TAA-Compliant for GSA Schedule Purchases
The B119-4X4-4K-VWL is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Highlights

- Features 2 operational modes: 4x4 matrix (seamless switch) and video wall
- Supports HDMI input/output with UHD resolutions up to 4K @ 30 Hz (4:4:4)
- Can upscale or downscale output resolutions to 720p/1080p/1920 x 1200/4K @ 30 Hz
- Allows flexible control via front-panel buttons, remote or RS-232 commands
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

System Requirements

- Source device(s) with HDMI output (media server, Blu-ray player, laptop, cable/satellite box, gaming console)
- 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
- Remote control
- 3-pin RS-232 Phoenix connector
- External power supply (Input: 100–240V, 50/60 Hz, 0.4A; Output: 12V 1A) with 4 ft. (1.2 m) cord
- (4) International plug adapters (AS/NZS 3112 Australia, BS 1363 UK, CEE 7/7 Schuko, NEMA 1-15P North America)
- Mounting hardware
- Installation instructions

Specifications

OVERVIEW	
UPC Code	037332295958
Product Type	Video Wall Controller
Technology	HDMI
Host Connector	HDMI (FEMALE)

VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	4
Video Ports	(4) HDMI (FEMALE)
Video Ports Details	HDMI 1.4; HDCP 1.4
Resolutions Supported	Supported resolutions include: 4096 x 2160p @ 30Hz, 3840 x 2160p @ 30Hz, 1920 x 1200p @ 60Hz,1920 x 1080p @ 60Hz, 1920 x 1080p @ 50Hz, 1600 x 1200p @60Hz, 1600 x 900p @ 60Hz,1440 x 900p @ 60Hz, 1360 x 768p @ 60Hz, 1280 x 1024p @ 60Hz, 1280 x 720p @ 60Hz,1280 x 720p @ 50Hz, 1024 x 768p @ 60HzWhen used as a matrix switch the maximum supported video output is 4K @ 30 HzWhen used as a video wall controller the maximum supported video output is 1080p @ 60 Hz
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 1920x1200; 3840x2160 (4K)
Max Supported Video Resolution	4096 X 2160 (4K) @ 30 HZ
Max Supported Color Depth	36-bit Deep Color
HDR Support	No
3D Video Supported	Yes
Chroma Sub Sampling	4:2:0; 4:2:2; 4:4:4
EDID Support	Yes
Bandwidth	10.2 Gbps
DSC Support	No

AUDIO	
Audio Ports	(4) HDMI (FEMALE)
Audio Input	HDMI
Audio Output	HDMI
Audio Specification	LPCM 2.0, LPCM 5.1, DOLBY 2.0, DOLBY 5.1, DOLBY DIGITAL PLUS, DTS 2.0, DTS 5.1

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 / 0.4A

AC Power Adapter Output Specs (V / A)	12V / 1A
AC Power Adapter Cord Length (ft.)	3.94
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
Power Source	AC Adapter

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
Power Over Cable (PoC) Support	No
AC Adapter	Input: 100-240V / 50/60Hz / 0.4A; Output: 12V, 1A, 4ft
Device Power Plug Type	AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P
Power Consumption (Watts)	3.60

CONNECTIONS

Number of Ports	10
Firmware Upgrade Port	USB-C (Female)
Side A - Connector 1	(4) HDMI (FEMALE)
Side B - Connector 1	(4) HDMI (FEMALE); (1) USB C (FEMALE)
Connector Plating	Nickel
Contact Plating	Gold
Input x Output	2 x 1; 2 x 2; 3 x 1; 4 x 1; 1 x 2; 1 x 3
Daisy-chainable / Cascadable	No

USER INTERFACE, ALERTS & CONTROLS

LED Indicators	POWER LED: ILLUMINATES GREEN WHEN THE SWITCH IS OPERATIONAL AND RED WHEN IN STANDBY; SIGNAL SOURCE LED: EACH OUTPUT 1-4, ILLUMINTES GREEN WHEN ITS INPUT PORT IS SELECTED

PHYSICAL

Color	Black
Material of Construction	METAL
Housing Color	Black

Included Mounting Accessories	Yes
Included Mounting Accessory Description	Mounting Brackets & Hardware
Form Factor/Mounting Options	Box; Wall-mount
Rackmountable	No
Shipping Dimensions (hwd / in.)	2.40 x 11.85 x 9.25
Shipping Dimensions (hwd / cm)	6.10 x 30.10 x 23.50
Shipping Weight (lbs.)	2.16
Shipping Weight (kg)	0.98
Unit Dimensions (hwd / in.)	0.700 x 8.700 x 4.100
Unit Dimensions (hwd / mm)	220 X 105 X 19
Unit Packaging Type	Box
Unit Weight (lbs.)	1.1
Unit Weight (kg)	0.50
Housing	Metal
Mounting Details	Mounting ears

ENVIRONMENTAL	
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)
Operating Humidity Range	20 to 80% RH Non-Condensing
Storage Humidity Range	10 to 90% RH Non-Condensing
ESD Protection	+/-8kV (air); +/-4kV (contact)

COMMUNICATIONS	
Port Control	Push Buttons, Remote Control or RS-232 Serial
EDID Compatible	Yes
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	Yes
Latency	No Latency

FEATURES & SPECIFICATIONS	
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No

Mounting Accessory Included	Yes
Multi-Resolution Support	No
Numbered Ports	Yes
Port Selection	Pushbutton; Remote Selector
HDCP Specification	1.4
Driver Required	No
DIN Mountable	No
IR Frequency Range	38KHZ
STANDARDS & COMPLIANCE	
External Power Supply Certifications	FCC; UL; cUL
Product Compliance	CE (Europe); FCC (USA); RoHS; Trade Agreements Act (TAA); UKCA; WEEE
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	3-year limited warranty