

HDMI 4x2 Matrix Switch with Quad Multiviewer - 4K 30 Hz, 4:4:4, Seamless Switching, Scaling, Audio Out, RS-232 & Remote Control

MODEL NUMBER: B119-4X2-MV



Extends 4K video from up to 4 HDMI sources in 2x2 or 4x4 split screen, picture-in-picture (PIP) and other configurations to 2 HDMI displays.

Features

Connects and Monitors Up to 4 HDMI Sources Across 2 Displays with Seamless Switching

The B119-4X2-MV is a versatile HDMI matrix switch designed for control rooms, classrooms, corporate AV and digital signage environments. It allows you to route any of four HDMI inputs to either of two outputs, or monitor all sources simultaneously using quad-view. With seamless switching, built-in scaling and multiple display modes, this switch has been tested across more than fifty devices, including Apple TV 4K, PS5, Roku, Xbox Series X, 8K desktops and a wide range of 4K/1080p televisions and monitors.

Flexible Matrix Switching for Security, Utilities and Transportation Control Rooms

Route any input to any output independently, or mirror inputs across two displays. Convenient push buttons on the front of the unit let you instantly choose which sources and displays to highlight. You can also use the included IR remote control or integrate easily with control systems via RS-232 serial commands. On-screen display (OSD) shows resolution, audio status and active channel to provide useful diagnostics during live monitoring. Power-off memory retains the last configuration after power cycle, which is perfect for signage and unattended installations.

Choose from Quad, Dual, Full-Screen or Picture-in-Picture at the Click of a Button

View up to four HDMI sources simultaneously on a single screen and seamlessly switch between sources on Output A with no black screen or delay. You can watch video from two source devices using Dual Mode (side by side or up/down) or just one in Full-Screen Mode. Picture-in-Picture (PIP) lets you choose a specific video feed as the main display and a small window in one of four corners. Built-in scaling enables compatibility across legacy and modern displays for flexible output resolutions including 1080p, 1600p and 4K @ 30 Hz. Default EDID ensures broad compatibility (advanced EDID features like HDR, 3D and automatic resolution detection are not supported).

Transmits Crystal-Clear 4K Video and Digital Audio

The B119-4X2-MV supports Ultra HD 4K resolutions up to 3840 x 2160 at 30 Hz, with support for YCbCr 4:4:4 and 4:2:2 color formats up to 12-bit depth. HDCP 1.4 encryption allows you to stream 4K content with no loss in resolution (not compatible with HDCP 2.2-only devices). Simplify audio integration with both stereo and TOSLINK outputs, allowing you to route sound directly to external speakers, soundbars or AV receivers. Support for LPCM, AC3 and DTS formats provides reliable playback across a wide range of audio systems in classrooms, signage and control rooms where HDMI audio routing isn't practical.

Highlights

- Route up to 4 HDMI inputs to 2 HDMI outputs or displays all inputs on one screen
- Supports 4K @ 30 Hz video with 4:4:4 and 4:2:2 color formats up to 12-bit depth
- Seamless switching on Output A with no black screen or delay
- Extracts audio via stereo or TOSLINK; supports LPCM, Dolby Digital and DTS
- Controlled via front panel, IR remote or RS-232; plug-and-play setup with no software

System Requirements

- HDMI source devices supporting up to 4K @ 30 Hz (media players, PCs, game consoles)
- HDMI displays or projectors supporting 1080p, 1600p or 4K @ 30 Hz
- Standard HDMI cables (28 AWG or better recommended for 4K signals up to 5 meters)
- External speakers, soundbars or AV receivers (for use with stereo or TOSLINK audio outputs)
- Control system with RS-232 (optional, for serial control integration)
- AC power source (100–240V) for included 5V DC power adapter

Package Includes

- B119-4X2-MV 4x2 HDMI Matrix Switch
- USB-A to Micro-USB data cable (M/M), 5 ft.
- Remote control
- External power supply w/4 ft. cord (Input: 100–240V, 50/60 Hz, 0.2A; Output: 5V 1A)
- (4) International plug adapters (AS/NZS 3112 Australia, BS 1363 UK, CEE 7/7 Schuko, NEMA 1-15P North America)
- Mounting hardware
- (4) Rubber feet
- User documentation



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Ready to Use Right from the Package, So You Can Plug and Play Immediately

The compact plug-and-play switch requires no software or drivers to download and install. Connect your devices to the HDMI ports with user-supplied HDMI cables (such as the P568-Series), and plug the included external power supply (with four international plug adapters to ensure use all over the world) into an AC power source to get started. The switch is made of a durable metal housing and can be mounted to a surface or wall using the included mounting hardware.

Specifications

OVERVIEW	
UPC Code	037332293657
Product Type	Multi-Viewer
Device Compatibility	Monitor/HDTV
Technology	HDMI; IR; Stereo Audio; Toslink/SPDIF
Country/Region	Global
Host Connector	HDMI (FEMALE)
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	2
Video Ports	(2) HDMI (FEMALE)
Video Ports Details	HDMI 1.4; HDCP 1.4
Resolutions Supported	Supported resolutions to connected displays include: 720p@50Hz / 720p@60Hz / 1080p@24Hz / 1080p@25Hz / 1080p@30Hz / 1080p@50Hz / 1080p@60Hz / 3840X2160 @ 24Hz / 3840X2160@25Hz / 3840X2160@30Hz
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 2560x1600; 3840x2160 (4K)
Max Supported Video Resolution	3840 x 2160 (4K) @ 30Hz
Signal Range (ft)	32
Signal Range (m)	10
Max Supported Color Depth	30-bit Deep Color; 36-bit Deep Color
HDR Support	No
3D Video Supported	No
Chroma Sub Sampling	4:2:2; 4:4:4
Maximum Signal Range (ft)	65
Maximum Signal Range (m)	20
Maximum Signal Range Details	Maximum Input + Output Cable Lengths Supported: 4K: 16.4 ft (5m) Input + 16.4 ft (5m) Output (33 ft/10m total)1080p: 32.8 ft (10m) Input + 32.8 ft (10m) Output (65 ft/20m total)
EDID Support	No
Signal Transmission	Unidirectional
Bandwidth	10.2 Gbps



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DSC Support	No
AUDIO	
Audio Ports	(1) 3.5MM (FEMALE); (2) HDMI (FEMALE); (1) TOSLINK (FEMALE)
Audio Ports Details	Supports audio formats including Linear PCM 2.1 Channel (44.1 kHz, 48 kHz), Linear 5.1 Channel (44.1 kHz, 48 kHz), and 5.1 Channel Digital (DTS, Dolby Digital AC-3)Includes 3.5mm Stereo Audio and TOSLINK digital audio outputs for connecting external audio output equipmentManually switch between 2.1 channel and 5.1 channel audio via the front panel pushbuttons or included IR remote control
Audio Input	HDMI
Audio Output	3.5mm; HDMI; Toslink
Audio Specification	Stereo Audio, Digital: LPCM/AC3/DTS
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)	5V / 2A
AC Power Adapter Cord Length (ft.)	4.5
AC Power Adapter Cord Length (m)	1.2
Voltage Compatibility (VAC)	100; 110; 125; 127; 200; 208; 220; 230; 240
Input Frequency	50/60Hz
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 7/7 Schuko; NEMA 1-15P
Power Source	Unit (Included)
Power Over Cable (PoC) Support	No
AC Adapter	Input: 100-240V, 50/60Hz, 0.2A; Output: 5V 2A, 4.5 ft
Device Power Plug Type	AS/NZS 3112; BS1363; CEE 7/7 Schuko; NEMA 1-15P
DC Barrel Plug	OD: 5.5 x 2.1 x 10mm, Positive Pin, Negative Sleeve
Power Consumption (Watts)	10.00
CONNECTIONS	
Number of Ports	9



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Firmware Upgrade Port	Micro USB
Side A - Connector 1	(4) HDMI (FEMALE)
Side B - Connector 1	(2) HDMI (FEMALE)
Side B - Connector 2	(1) 3.5MM (FEMALE)
Side B - Connector 3	(1) TOSLINK (FEMALE)
Side B - Connector 4	(1) MICRO-USB B (FEMALE)
Connector Plating	Nickel
Contact Plating	Gold
Input x Output	2 x 1; 2 x 2; 2 x 4; 3 x 1; 4 x 1; 4 x 2; 4 x 4; 1 x 2; 1 x 4; 1 x 1; 1 x 3; 3 x 3
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Output A/B: 4x Blue LEDs indicate current output selected; Power (Blue)
Switches	On/Off Switch, Scaler, Audio, Mode, Select Source (A and B)
PHYSICAL	
Color	Black
Material of Construction	ABS + METAL
Form Factor/Mounting Options	Box
Rackmountable	No
Shipping Dimensions (hwd / in.)	2.17 x 11.50 x 9.37
Shipping Dimensions (hwd / cm)	5.51 x 29.21 x 23.80
Shipping Weight (lbs.)	2.03
Shipping Weight (kg)	0.92
Unit Dimensions (hwd / in.)	0.700 x 8.500 x 3.600
Unit Dimensions (hwd / cm)	1.9 x 26.95 x 11.0
Unit Packaging Type	Box
Unit Weight (lbs.)	1.19
Unit Weight (kg)	0.54
ENVIRONMENTAL	
Operating Temperature Range	32°F to 158°F (0°C to 70°C)
Storage Temperature Range	14°F to 176°F (-10°C to 80°C)
Operating Humidity Range	5% TO 90% RH NON-CONDENSING
Storage Humidity Range	5% TO 90% RH NON-CONDENSING
COMMUNICATIONS	
Port Control	Push Buttons, Remote Control or RS-232 Serial



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Signal Range (ft.)	32
Signal Range (m)	10
Transmission Distance	4K: 32 feet (10 meters); 1080p: 65 feet (20 meters); IR Remote: 16 feet (5 meters)
EDID Compatible	No
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	No
Latency	Zero
FEATURES & SPECIFICATIONS	
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	Yes
Multi-Resolution Support	No
Port Selection	Pushbutton; Remote Selector
HDCP Specification	1.4
Driver Required	No
DIN Mountable	No
STANDARDS & COMPLIANCE	
External Power Supply Certifications	CE; FCC; PSE; TUV; UKCA; UL; WEEE; cUL
Product Certifications	CAN/CSA-C22.2 No. 62368-1 (Canada); EN 55032; EN 55035; UL 62368-1
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	3-year limited warranty

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