

Fixed Matrix Routers

MS-4K Seamless Series



Aberman MS-4K-44MVW is an 18Gbps 4x4 Seamless Ultra High Definition Video Matrix. It can connect up to 4 HDMI sources to 4 HDMI displays. Supported video resolution is up to 4K60 4:4:4. Seamless switching between sources ensures high quality of picture with no sync loses glitches or visual artifacts. Each output of the matrix allows setting output resolution individually and independently. VideoWall mode allows building a videowall using any of connected displays. The Multiviewer functions allows to show several source signals on one output. Matrix supports for IR and Audio routing. Audio embedding and de-embedding functions are also supported. Matrix supports smart EDID management and HDCP protected signal processing. Simple and powerful control abilities allow using unit in any modern audio-video system. Matrix can be controlled locally via front panel buttons and IR remote, or remotely using the RS-232 or IP interfaces and Web GUI.

SPECIFICATIONS

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Bandwidth	594MHz/18Gbps
Video Resolution	480i ~ 1080P@50/60Hz, 4K2K@24/30Hz, 4K2K@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input ports	4 × HDMI INPUT [Type A, 19-pin female] 4 × L/R AUDIO INPUT [3.81mm, 3pin Phoenix Connector]
Output ports	4 × HDMI OUTPUT [Type A, 19-pin female] 4 × OPTICAL AUDIO OUT [S/PDIF] 4 × L/R AUDIO OUT [3.81mm, 5pin Phoenix Connector]
Control ports	1 × TCP/IP [RJ45] 1 × RS-232 [D-Sub 9] 1 × IR EXT [3.5mm, Stereo Mini-jack] 4 × IR INPUT [3.5mm, Stereo Mini-jack] 4 × IR OUTPUT [3.5mm, Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	440mm [W] × 203mm [D] × 44.5mm [H]
Weight	2.55kg
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 12V/2.5A (US/EU standard, CE/FCC/UL certified)
Power Consumption	25W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no-condensing)



FEATURES

- Comply to HDMI 2.0 and HDCP 2.2 specifications
- Support signals with video resolution up to 4K@60Hz 4:4:4
- 18Gbps video bandwidth processing
- Support different layouts in Multiview mode
- Support Videowall mode
- Embedded Test Patterns Generator
- Supported HDMI audio format: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS- EX,DTS-96/24, DTS High Res, DTS-HD Master Audio
- Support CEC control, and multiple video resolution output
- Advanced EDID management
- Control via front panel buttons, IR remote, IP and RS-232
- Full functional Web-GUI
- Matrix housed in 1RU chassis and ready for standard 19" rack

ORDERING INFORMATION

Model No.	Product Description
MS-4K-44MVW	UHD Seamless Matrix Router 4x4