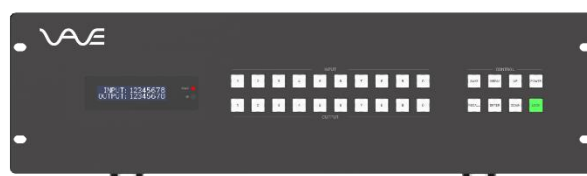# HDP-MX91616M-H

16x16 Seamless Modular Matrix

FEATURE:

- HDMI 2.0b and HDCP 2.2 compliant
- HDMI 18Gbps video bandwidth, up to 4K60 YCbCr 4:4:4 24bit
- Pluggable card structure (One card with four channels)
- Support 8/16/36/72 channel video signal inputs and outputs
- Multiple input/output cards with HDMI, DVI-U (DVI/YPbPr/CVBS), VGA, 3G/HD/SD-SDI,HDBaseT and optical fiber
- Video resolution up to 1920×1200p60hz (2K series card), 3840x2160p60hz (4K series card)
- Seamless switching without image tear, black screen or flicker in the switching process
- Based on Gen-Lock video wall splicing technology, the latency between any output channel is less than 0.1ms
- Any splicing modes in the allowed range of 8x8~72x72, especially suitable for LCD/LED video wall
- Multiple output resolutions to meet the needs of different types of display devices
- Adopt pure hardware high-speed matrix switching chip with high integration
- Built-in signal equalization, signal recovery and signal redriver
- Built-in video quality enhancement, output video quality can be adjusted
- Built-in HDCP processing logic to avoid HDCP compatibility issues
- Input cards support audio embedding, output cards support audio de-embedding
- Analog audio embedding supports LPCM 2.0CH, analog audio and video signals are input synchronously
- Analog audio de-embedding supports LPCM 2.0CH, analog audio and video signals are output synchronously
- Up to 64 kinds of scene presets can be recalled
- Advanced EDID management (Internal EDID or copy from any output devices)
- Control via front panel buttons, IR, RS-232, TCP/IP, Web GUI or PC program
- Built-in intelligent control system with user-friendly GUI
- Silent fan design, noiseless, stable performance
- AC power port with built-in power module
- Standard rack size design, convenient for installation

HDP-MX91616M-H

This Modular Seamless Switching Matrix is a professional all-in-one machine that supports various audio and video signal switching and distribution, integrated video wall function and control system. It supports up to 8~72 signal inputs and 8~72 signal outputs. Audio and video matrix adopts pure hardware high-speed matrix switching chip, which has high integration, stable system, no compression/loss/delay of signal. Advanced full digital signal processing technology can ensure signal distortion-free processing, and the best image quality to the display devices. This series of Modular Seamless Switching Matrix, supported by the high bandwidth backplane, provides up to4Kx2K@60Hz YCbCr 4:4:4 24bit input/output and arbitrary routing of various signals. It supports HDMI 2.0b, 18Gbps video bandwidth, color depth up to 12 bits. The matrix adopts pluggable card structure, which is flexible and convenient for installation. It provides HDMI, DVI-U(DVI/YPbPr/CVBS), VGA, 3G/HD/SDI, HDBaseT and optical fiber input/output cards. One card with four channels, both 2K series and 4Kseries cards are supported. Input cards support audio embedding, and output cards support audio de-embedding, providing maximum support for the audio system in the whole system. It offers multiple control methods such as front panel buttons (with LCD screen), IR remote, RS-232 signals, LAN, PC tool or Web GUI control. The built-in video wall function can realize any splicing mode within the range of 8/16/36/72total output channels, providing a turnkey solution for the distribution and processing of video signals with various formats in various industries. The built-in control system integrates multiple control interfaces and intelligent control GUI modules that can be directly recalled by users. This Matrix is applicable to video conference, energy and power, judicial prison, smart city, government service, water conservancy and hydrology, meteorology and earthquake, enterprise management, metallurgy and steel, banking and finance, public security and transportation, exhibition, production scheduling, radio and television, education and scientific research and other fields.

Audio Visual Equipment

Switchers

16x16 Seamless Modular Matrix

HDP-MX91616M-H 16x16 Seamless Modular Matrix

SPECIFICATIONS:

Technical

HDMI Compliance	HDMI 1.4 (2K series card), HDMI 2.0b (4K series card)
HDCP Compliance	HDCP 1.4 (2K series card), HDCP2.2 (4K series card)
Video Bandwidth	600MHz/18Gbps
Video Resolution	1920x1200p60Hz (2K series card) 3840x2160p60Hz 4:4:4 (4K series card)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	2K series card: 8/10/12-bit (1080P60Hz)
Transmission Distance	4K30/10 meters, 4K60/5 meters HDBT: 1080P/70 meters/100meters/150 meters ;4K/40 meters/70 meters/120meter
ESD Protection Human	Human body model: ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connections

Input	2x Input card (8x8 Matrix)
	4 x Input card (16x16 Matrix)
	9x Input card (36x36 Matrix)
Output	2x Output card (8x8 Matrix)
	4x Output card (16x16 Matrix)
	9x Output card (36x36 Matrix)
Control	1x RS-232 [3-pin Phoenix Connector]
	4x COM [3-pin Phoenix Connector]
	1x IR-SERIAL [4-pin Phoenix Connector]
	1x RELAY [4-pin Phoenix Connector]
	1x I/O [3-pin Phoenix Connector]

Mechanical

Color	Black
Dimensions	16x16 Matrix: 483mm (W)x379mm (D)x133mm (H)
Weight	16x16 Matrix: 8.62kg (No input/output cards are included)
Power Supply	Input: AC100 - 240V 50/60Hz
	Output: DC 12V/17
Power Consumption	8x8 Matrix: 35W~90W (Match with different input/output cards)
	16x16 Matrix: 70W~170W (Match with different input/output cards)
	36x36 Matrix: 100W~350W(Match with different input/output cards)
Operation Temperature	32°F - 104°F / 0°C - 40°C
Storage temperature	-4°F - 140°F / -20°C - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Switchers