

MP-UHD89MV-VW

8×9 Seamless 4K Ultra HD Matrix & Video Wall Processor

Professional HDMI matrix switching, scaling, video-wall processing and multiview functionality.



8×9 HDMI Matrix 8 inputs / 9 outputs	4K60 4:4:4 18 Gbps signal path	Video Wall Creative layouts via Web GUI	FPGA Architecture Real-time seamless switching
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Product Overview

The MP-UHD89MV-VW is a professional seamless UHD video matrix switching and video-wall processor with 8 HDMI inputs and 9 HDMI outputs. It supports synchronous seamless switching up to 4K@60Hz 4:4:4, 18 Gbps processing, creative video-wall layouts, 4K scaling, audio and infrared routing, and control through front-panel, RS-232 and TCP/IP/Web GUI interfaces. The supplied manual positions it for stage presentations, digital classrooms and video-conference rooms.

- 4K@60Hz 4:4:4 with HDR and complete 18G signal processing
- 4K scaler with selectable output scaling/cropping modes
- Independent analog audio and IR switching
- Automatic input cable equalization and output re-locking
- Seamless FPGA-based switching and frame synchronization
- Creative video-wall layouts and last-output multiviewer
- Audio embedding/de-embedding and one-click mute
- EDID, DHCP, configurable HDCP and monitor-status reporting

Technical Specifications

Core hardware, signal, environmental and control specifications from the supplied M1.4 user manual.

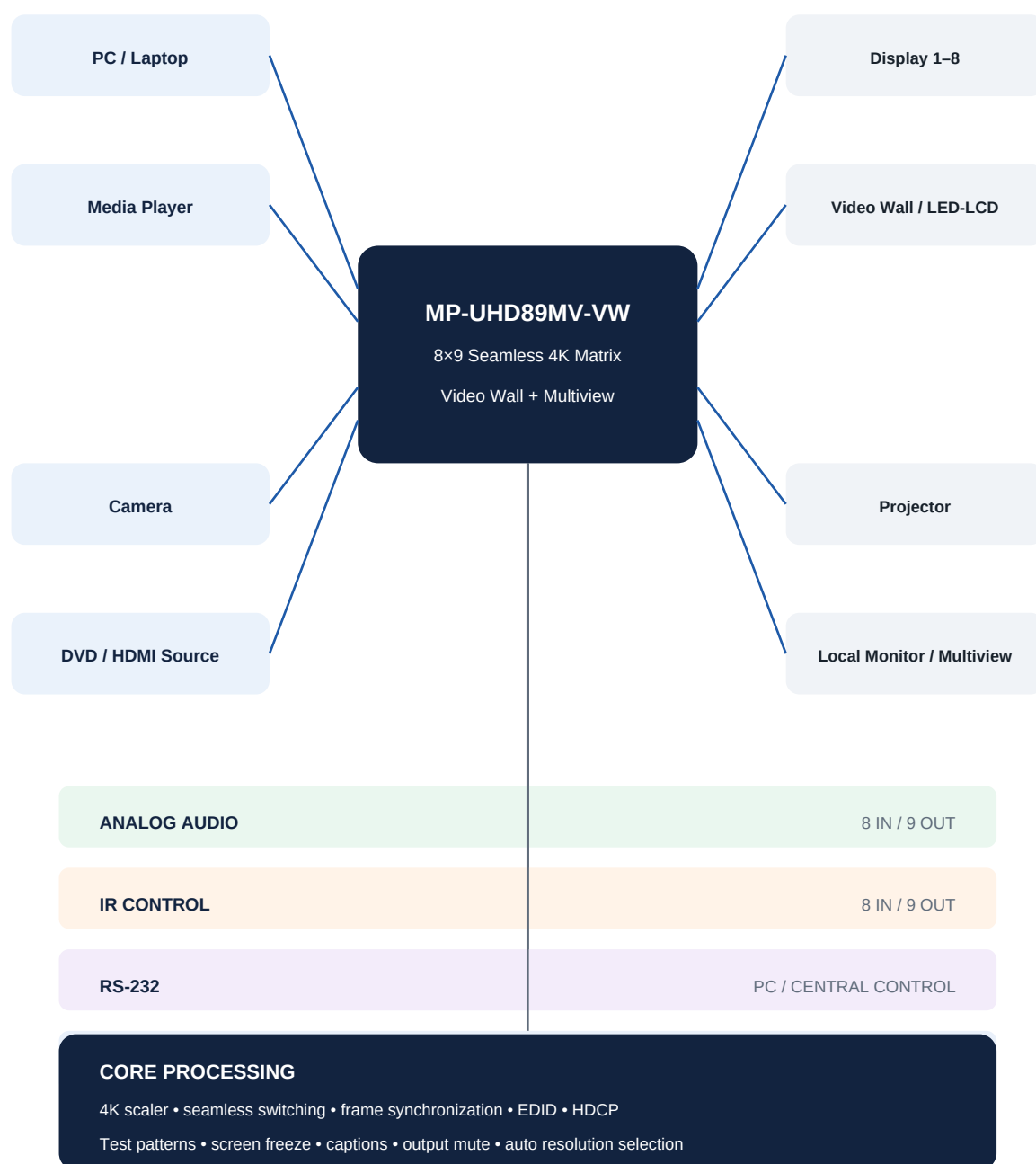
Parameter	Specification
Model	MP-UHD89MV-VW
Input	8 × HDMI, 8 × IR, 8 × analog audio
Output	9 × HDMI, 9 × IR, 9 × analog audio
Video Protocol	HDMI 2.0, HDCP 2.2
Maximum Resolution	Up to 4096 × 2160 @ 60 Hz (4:4:4)
HDMI Connector	Type A, 19-pin, female
Serial Interface	RS-232 IN, DB9 female
Input Cable Length	10 m
Output Cable Length	10 m
Impedance	100 ± 15 Ω
Network Control	RJ45, TCP/IP
Ethernet Rate	10M / 100M
Storage Environment	−20°C to +70°C; 10%–90% RH
Operating Environment	−20°C to +70°C; 10%–90% RH
Power	AC 110–240 V
Power Consumption	100 W
Chassis	1U
Dimensions (L × D × H)	430 × 350 × 43.5 mm
Weight	3.5 kg
MTBF	30,000 h
Warranty	One-year warranty and lifetime maintenance

Advanced Processing & Control

Video Processing	18 Gbps full-path processing • HDR • 4K60 4:4:4 • 4K scaling • DDC transmission
Signal Integrity	Automatic input cable equalization • output re-lock • HDMI-to-DVI format correction
Video Wall	Creative splicing layouts • frame synchronization • configurable output modes • captions
Diagnostics	Input/output test images • monitor connection status • configurable no-signal behavior
Audio	Input volume control • analog audio embed/de-embed • one-click input audio mute
Management	Front panel + LCD • RS-232 • TCP/IP/Web GUI • DHCP • EDID • configurable HDCP
Multiview	Last output port supports multiviewer functionality

System / Signal Flow Diagram

Clean vector redraw based on the supplied manual's system diagram and stated interfaces.



Typical signal flow: HDMI sources are routed through the processor to displays, video-wall outputs and multiview. Analog audio, IR, RS-232 and TCP/IP provide additional control/routing paths. The supplied manual's original diagram also illustrates Wi-Fi/tablet control and multiple display-layout modes.

Panel Reference & Application Features

Front/rear panel reference and key application capabilities taken from the supplied manual.

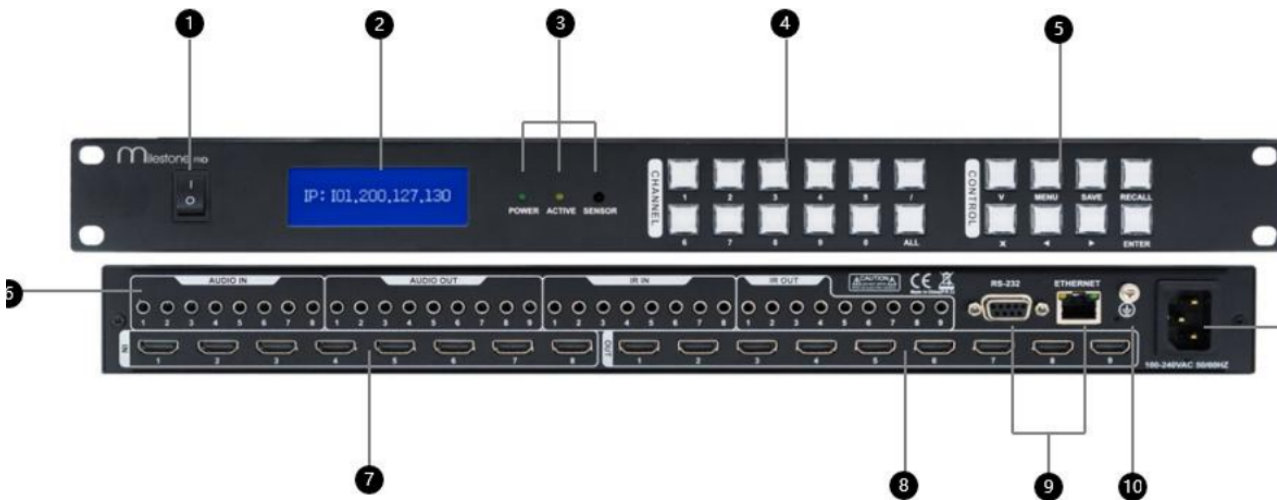


Figure 1 MP-UHD89MV-VW front panel and rear panel

front and rear panels of the MP-UHD89MV-VW seamless UHD Matrix switcher include:

Front Panel	Power switch, IP/status display, power/active/sensor indicators, channel keys 0–9, ALL key and control/menu buttons.
Rear Panel	8 HDMI inputs, 9 HDMI outputs, 8 audio inputs, 9 audio outputs, 8 IR inputs, 9 IR outputs, RS-232, Ethernet, grounding and AC power.
Control	Front-panel/LCD control, RS-232 central control, TCP/IP/Web GUI, DHCP and software-based configuration.

Application Highlights

Presentation & Events	Seamless switching, 4K scaling, output mute, test patterns and multi-display routing.
Video Wall	Creative layouts, frame synchronization, captions/scrolling text and configurable output modes.
Classrooms & Collaboration	Multiple HDMI sources, independent audio/IR routing and Web GUI management.
Conference & Control Rooms	Matrix routing, multiview on the last output, centralized RS-232/TCP-IP control and status monitoring.

Source note: Technical values and feature descriptions are based on the supplied MP-UHD89MV-VW User Manual, revision M1.4. The system diagram on page 3 is a clean vector redraw for readability; product and panel visuals are derived from the supplied manual.