

MP-UHD810-VW

8×9 Seamless 1-Multiview 4K Ultra HD Matrix & Video Wall Processor



Product Overview

The MP-UHD810-VW is a seamless HDMI matrix and video wall processor with 8 HDMI inputs, 9 seamless HDMI outputs and a dedicated HDMI preview output for 9-split signal monitoring. It supports up to 4096 × 2160 @ 30 Hz, real-time seamless switching, flexible multi-layer layouts, video wall splicing and IP-based visual management.

Key Features

- 8 HDMI inputs, 9 seamless HDMI outputs and 1 HDMI preview output.
- Supports up to 4K@30Hz 4:4:4 input and output; HDMI 1.4 and HDCP 1.4 compliant.
- Three operating modes: Matrix, Video Wall and Multi-View.
- Windowing, roaming, scaling, seamless switching, image cropping and layer overlay.
- Up to 8 layers per interface and up to 16 layers across the video wall.
- Built-in IP-based visual preview for real-time signal and video wall monitoring.
- EDID management, custom logo overlay, scrolling text and 11 built-in test patterns.
- Multiple control methods: front panel/LCD, RS232, TCP/IP, web interface and PC software.
- Preset scene save/recall, output mapping, user access control and bezel compensation.

Typical Applications

Control rooms • Corporate meeting rooms • Conference centers • Education • Live events • Digital signage • Video wall installations • Multi-display AV systems

Manual Version: M1.0 **Released:** 14 August 2025

Technical Specifications

Model	MP-UHD810-VW
Input	8 × HDMI
Output	10 × HDMI total: 9 seamless HDMI outputs + 1 HDMI preview output; 1 × analog audio output
Video Protocol	HDMI 1.4, HDCP 1.4
Maximum Resolution	4096 × 2160 @ 30 Hz
HDMI Connector	Type-A, 19-pin female
Serial Interface	RS-232
Network Control	TCP/IP via RJ45
Ethernet Speed	10M / 100M / 1000M adaptive
Input Cable Length	10 m
Output Cable Length	10 m
Impedance	100 ± 15 Ω
Audio	Analog audio output via Phoenix connector to loudspeaker amplifier system
Power Supply	AC 100–240 V, 50/60 Hz
Maximum Power Consumption	65 W
Chassis	1U rack-mount chassis
Dimensions (W × D × H)	482 × 350 × 46.3 mm
Weight	3.5 kg
MTBF	30,000 hours
Operating Environment	0°C to +50°C; 10%–90% RH
Storage Environment	–20°C to +70°C; 10%–90% RH
Warranty	1 year warranty with lifetime maintenance

Video Processing & Management

- Flexible layout with customizable windows, roaming, scaling, seamless switching and layer overlay.
- Layer management: up to 8 layers per output/interface; up to 16 layers across the video wall.
- Image cropping for displaying a selected portion of an input image.
- Custom logo overlay with adjustable language, font and size.
- Multilingual scrolling text overlay with scalable fonts.
- Bezel compensation for optimizing tiled display alignment.
- Output mapping for flexible physical-output configuration.
- Smart monitoring of input status, temperature and version information.

Control, Panel & Software Functions

Front & Rear Panel Interfaces

Power Switch	Turns the matrix switcher on/off.
LCD Display	Shows current matrix status, command input and command results.
Signal Indicators	POWER, ACTIVE (command reception/status) and SENSOR (IR receiving status).
0–9 Number Buttons	Select input/output channels; used with the matrix switching command format.
ALL Button	Selects all output channels.
Command Buttons	IP configuration, video switching, SAVE, RECALL and menu navigation.
HDMI IN	8 HDMI input ports for source devices.
HDMI OUT	9 HDMI output ports for display devices.
HDMI OUT-1 Preview	Dedicated HDMI preview output for multiview/9-split monitoring.
ETHERNET RJ45	LAN/TCP-IP control; 10/100/1000M adaptive.
Phoenix Audio	Analog audio output to a loudspeaker amplifier system.
Ground / AC Input	Protective grounding and AC100–240V 50/60Hz power input.

Control & Configuration

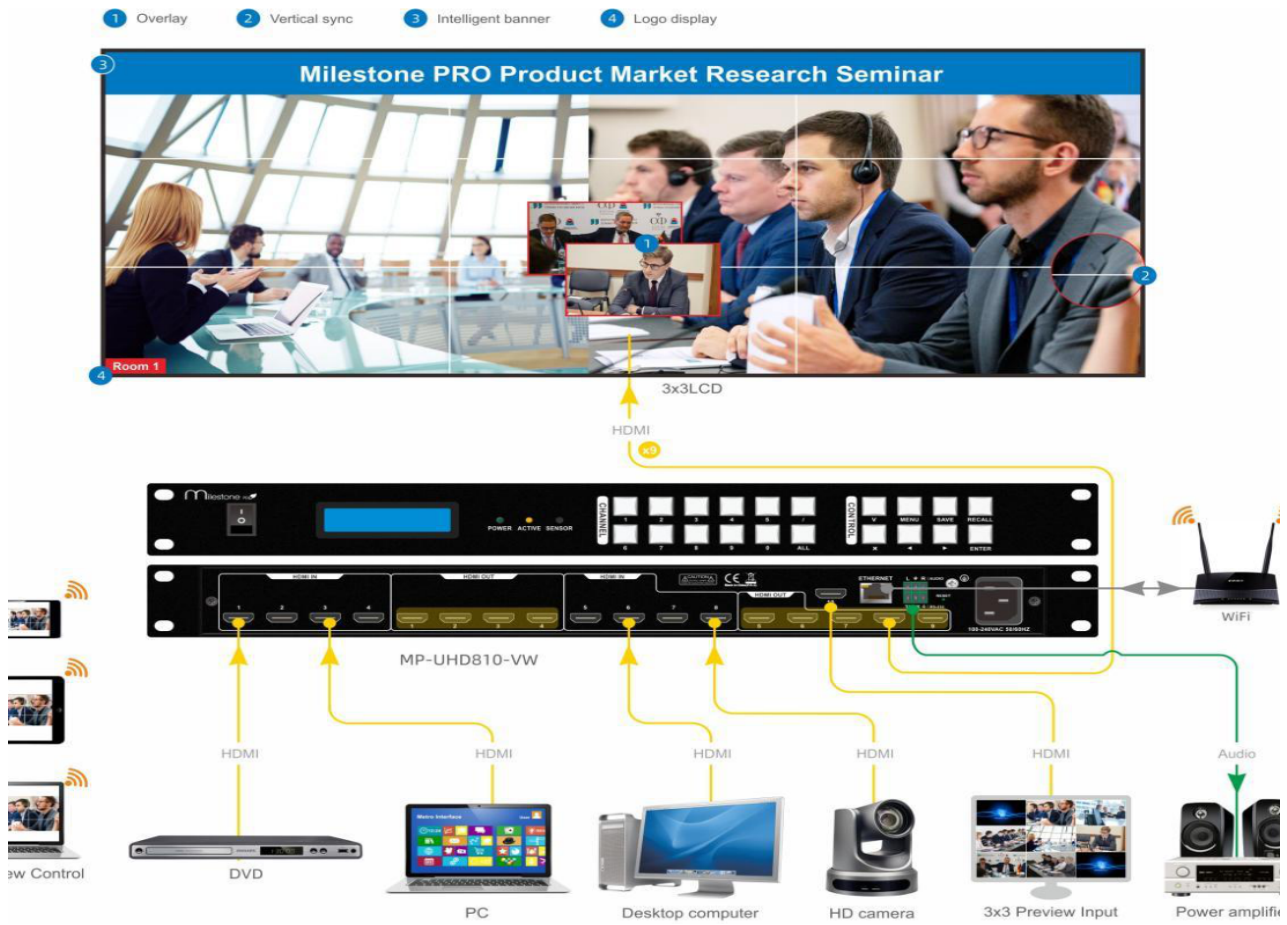
- Front-panel control with LCD display and dedicated buttons.
- RS232 serial control for external system integration.
- TCP/IP network control through RJ45 Ethernet.
- Web control interface for video wall, control and settings.
- PC software control using the MP Multi-System application.
- Default network address documented in the manual: 192.168.1.191.
- EDID control can read EDID from output ports, select different resolutions and upload EDID files.
- Scene/preset management supports saving and recalling switching states.
- User access control supports multi-user management with permission and port-range settings.

Display Modes

Matrix: Independent routing of sources to outputs. **Video Wall:** Spliced multi-display presentation with layer and bezel management. **Multi-View:** Multi-source monitoring/preview with flexible layout management.

System Connection & Applications

The system diagram below is taken from the supplied product manual and illustrates the processor connected to HDMI source devices, displays/video-wall screens, a preview monitor, network control and an audio amplifier/speaker system.



Recommended Application Areas

- Video wall processing for LED/LCD display arrays.
- Conference and meeting-room source routing.
- Control-room and monitoring-wall applications.
- Live event and presentation switching.
- Education and training environments.
- Digital signage and multi-display content distribution.

Key Management Capabilities

Seamless Switching	Real-time source switching designed to minimize visible transition interruption.
Video Wall Splicing	Supports multi-screen splicing with configurable windows and layer placement.
Multi-Layer Processing	Up to 8 layers per interface and up to 16 layers across the wall.
IP Preview	Real-time visual preview of input signals and video wall status.
EDID	Read, select, update and apply EDID settings through the control software.
Diagnostics	11 built-in professional test patterns.
Overlay	Logo overlay and multilingual scrolling text.
Presets	Save and recall switching and splicing states.

Source: Specifications and feature descriptions are compiled from the supplied MP-UHD810-VW material and the product manual M1.0 released 14 August 2025.