

VIS-UHD0809-VW-A Compact Video Wall Processor Datasheet V1.2

- 1 3x3 videowall 2 Scrolling Text



1. Product Overview

The VIS-UHD0809-VW-A compact video wall processor features 8 HDMI inputs and 9 seamless HDMI outputs. It delivers ultra-high data throughput and seamless sync HDMI switching up to 4K@60, 4:4:4. Featuring an intuitive Web GUI for creative video wall layouts and a pure FPGA-based hardware architecture, it is ideal for stage performances, digital classrooms, and video conference rooms.

2. Property

- 8 HDMI inputs and 9 HDMI outputs with real-time seamless switching;
- 4×3.5 mm analog audio inputs, 4 balanced Phoenix analog audio inputs, and 8 balanced Phoenix analog audio outputs;
- Any output supports **matrix**, **video wall**, and **split** modes (with up to 3-way split);
- Supports multiple split-screen display layouts;
- Supports up to **4K@60Hz 4:4:4** I/O, compatible with **HDMI 2.0** and **HDCP 2.2**;
- Supports EDID auto-detection for optimal display resolution;
- Supports EDID management with built-in EDID files and display EDID read/write;
- Supports input image cropping for partial signal display;
- Supports input image logo overlay;
- Built-in signal generator with **11 types of professional test images** I/O channel;
- Supports **up to 5 UHD images** as input sources or background images when no signal is present;
- Supports **seamless matrix** or **single-layer video wall** output;
- Supports synchronized **LED/LCD** video wall processing, up to **3×3** or **2×4** layouts;
- Video walls support **scrolling text** display;
- **Audio** and **video** can be **switched independently**;
- Supports web control and Android/iOS app control;
- Software-based per-input audio level adjustment with one-key mute support;

- Supports multiple control methods, including front-panel buttons with **LCD**, **RS-232**, **TCP/IP**, **software** and **web** control;
- Supports flexible multi-group splicing on any output port;
- DHCP can be enabled or disabled via software or the front panel;
- Output supports **full-screen display** and **aspect-ratio scaling** modes;
- Supports one-click output image freeze/unfreeze;
- Supports intelligent management, with software displaying input signal status, output display connection status, and current port status;
- Input **HDCP version is adjustable**, and output **HDCP can be enabled or disabled**;
- Supports **one-click** output image **on/off**;
- Supports multi-connection and multi-user management, with permission assignment and port allocation by user;
- Supports **plan management** with one-click save and recall;
- Supports **one-click web-based upgrade**.

3. Features

- **8×9 HDMI Matrix**

Supports full-link 18G bandwidth from input to output, handles HDR signals, and up to 4K@60Hz 4:4:4 resolution.

- **Video Wall**

Create video wall layouts via Web GUI, combining multiple monitors into a single large display.

- **4K Scaler**

Converts any input resolution to the display's native resolution for optimal image and video quality.

- **Seamless Switching**

FPGA-based hardware supports up to 4K@60 peak data rate and synchronized HDMI signal switching.

- **Input Volume Control**

Independently adjusts audio inputs, with all output channels following the input

volume adjustments.

- **HDMI-DVI Format Correction**

Automatically adjusts HDMI output to be compatible with connected DVI displays.

- **Auto Input Cable Equalization**

Compensates signal loss from long or low-quality HDMI cables; 4K@60 signals reach up to 5 m with HDMI 2.0 cables.

- **Auto Output Re-Lock**

Reshapes and restores HDMI signal clocks at each output to ensure stable long-distance transmission.

- **External Power Supply**

Provides +5V DC / 250 mA auxiliary power to connected HDMI devices.

- **Output Disable Control**

Supports turning off individual or all outputs (e.g., preview on local monitors before switching to the main display).

- **Ethernet Monitoring & Control**

Monitors, manages, and controls LAN/WAN/Internet via standard TCP/IP protocol.

- **Logo Identification**

Adds a separate logo to each input signal for easy source identification.

- **Splicing Text**

Adds scrolling text or welcome messages on the video wall.

- **Input Test Patterns**

Input generates test images for setup; output provides test images to check ports and displays, supporting multi-output frame sync display.

- **Audio Embedder & Extractor**

Embeds analog audio into HDMI or extracts audio from HDMI signals.

- **EDID Management**

Copies display EDID to input ports and allows updating or selecting available EDID files.

- **Plan**

Stores up to 200 plans, quickly recalled via front-panel buttons or RS-232.

- **Panel Lock**

Locks the front panel to prevent accidental operation or switching.

- **Audio Matrix**

Supports independent switching, routing 8 audio inputs to 8 audio outputs.

- **Web GUI**

Provides an intuitive visual interface for configuration and control.

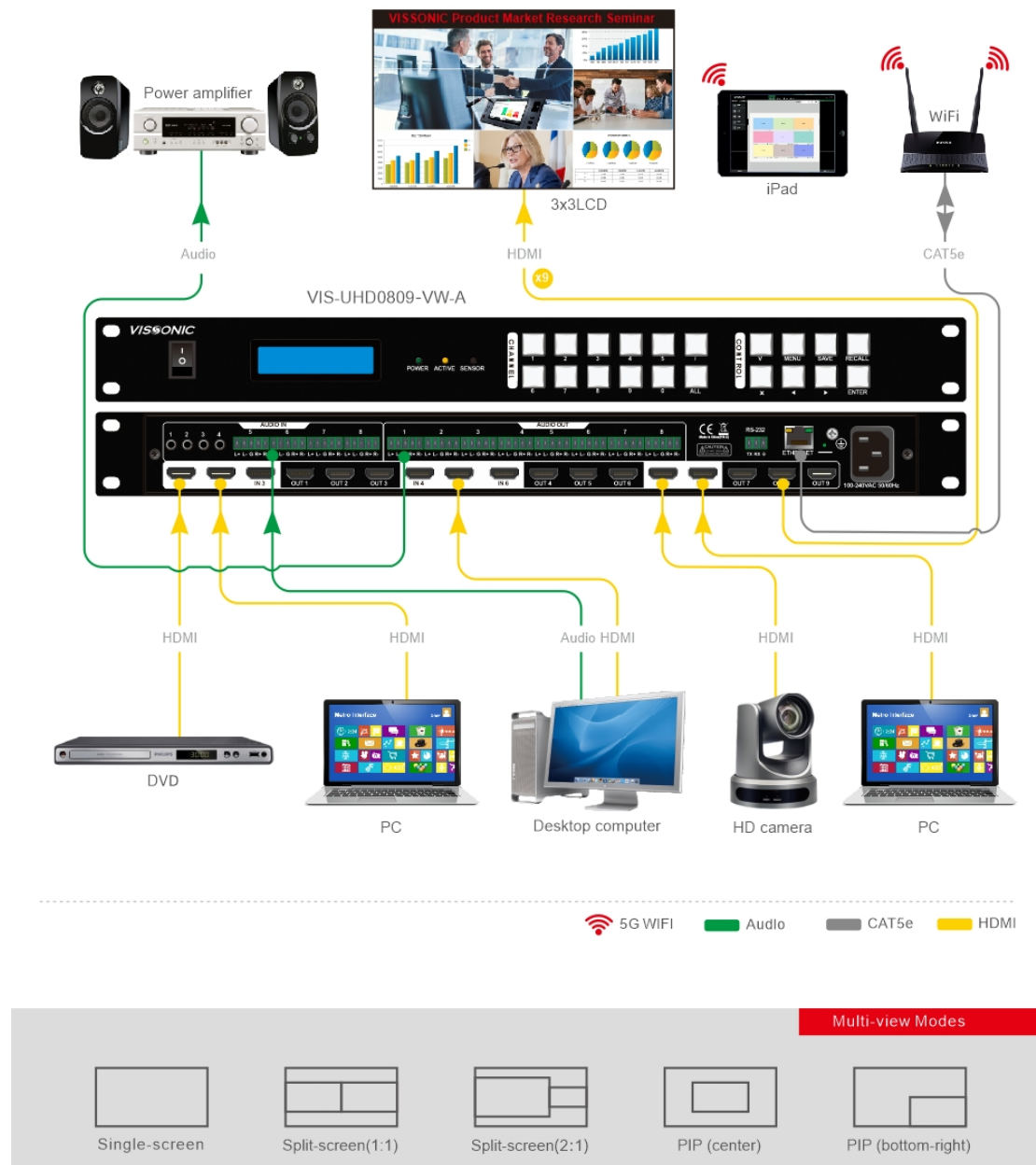
- **Front Panel**

Supports video routing, plan saving/recall, IP management, and network parameter settings.

4. Parameters

Model	VIS-UHD0809-VW-A
Input	8× HDMI, 4× 3.5 mm analog audio, 4× balanced analog audio
Output	9× HDMI, 8× balanced analog audio
Video Protocol	HDMI 2.0, HDCP 2.2
Maximum Resolution	4096×2160@60Hz (4:4:4)
HDMI Interface	Type-A, 19-pin, Female
Serial Port	RS232 3-Pin phoenix connector
Input Cable Length	5m (HDMI 2.0 cable)
Output Cable Length	5m (HDMI 2.0 cable)
Impedance	100±15Ω
Control Protocol	TCP/IP
Network Speed	Self-adaptive 10/100 Mbps
Storage Environment	Temperature: -20℃~70℃, Humidity: 10%~90% RH
Operating Environment	Temperature: 0℃~50℃, Humidity: 10%~90% RH
Power Supply	AC 100~240 V
Maximum Power Consumption	100W
Chassis	1U
Size (W×D×H)	482×350×46.3mm
Weight	4.52kg
MTBF (Mean Time Between Failures)	Up to 30,000 hours
Warranty	3 year

5. System Diagram



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Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.



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