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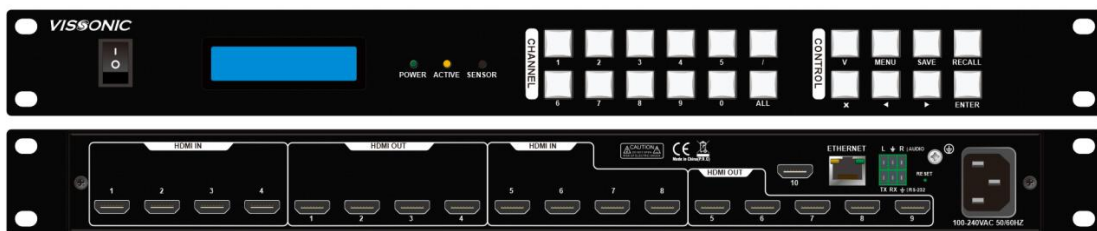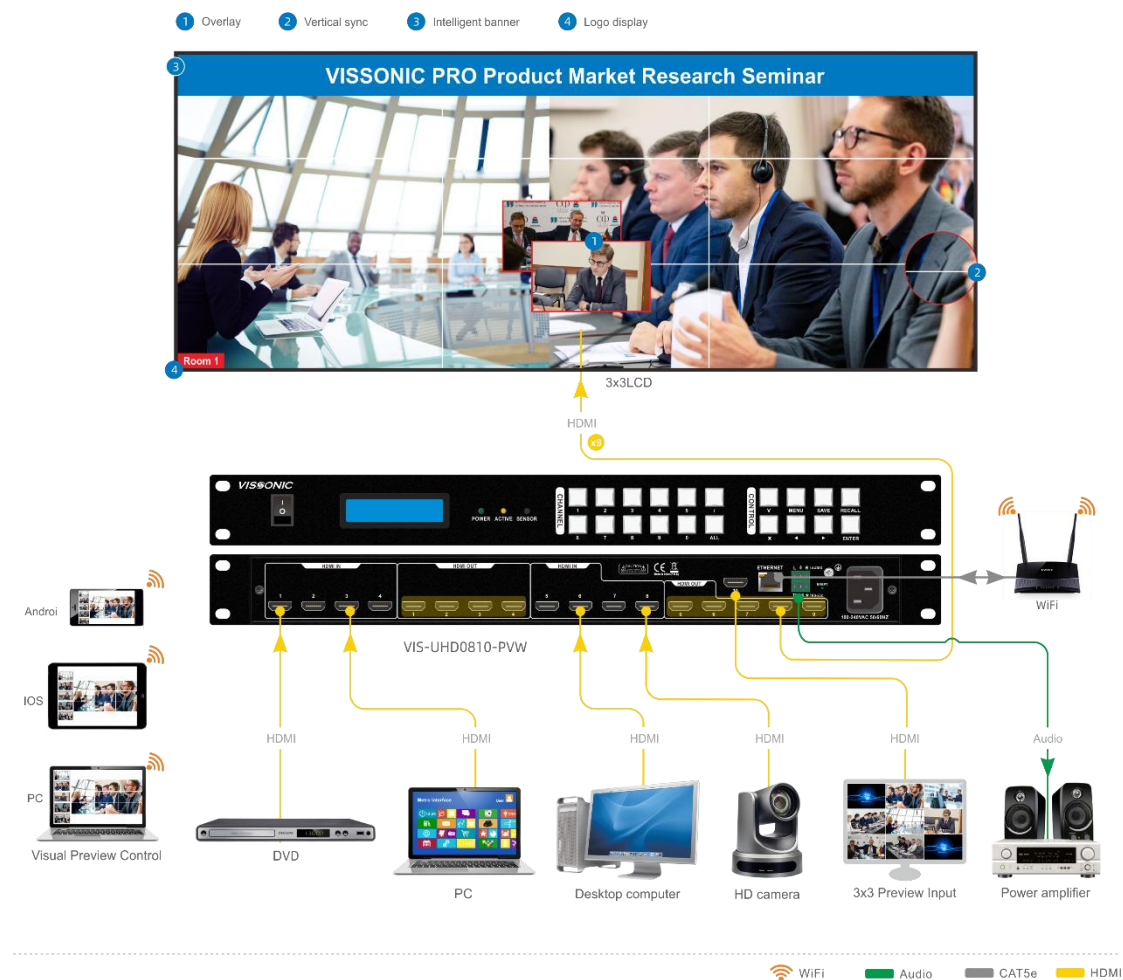
VIS-UHD0810-PVW
HDMI Seamless Matrix Switcher with Videowall & Multi-view

Product Datasheet

VISSONIC ELECTRONICS LTD.

Application diagram

Overview

The VIS-UHD0810-PVW HDMI Seamless Matrix Switcher features 8 HDMI inputs, 9 seamless HDMI outputs, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output. It supports 4K@30Hz 4:4:4 and enables real-time seamless switching. It offers IP-based visual preview, flexible layout, and multi-layer display, as well as image editing, video wall splicing, multiple control methods, and intelligent management, making it ideal for diverse application scenarios.

Property

- Features 8 HDMI inputs and 9 HDMI outputs,, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output.
- Supports up to 4K@30Hz 4:4:4 input and output, compatible with HDMI 1.4 and HDCP 1.4.
- Offers flexible layout options, including windowing, roaming, scaling, seamless switching, and layer overlay.
- Each interface supports up to 8 layers, and the entire video wall supports up to 16 layers.
- Built-in IP-based visual preview enables real-time monitoring of input signals and displays current video wall status.
- Supports three display modes: Matrix, Video Wall, and Multi-View, catering to diverse application needs.
- Multiple control methods: front panel with LCD and buttons, RS232, TCP/IP, web interface, and PC software control.

Features

- 8 HDMI inputs and 9 HDMI outputs,, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output.
- Input/output supports up to 4K@30Hz, 4:4:4, compliant with HDMI 1.4 and HDCP 1.4.
- Visual management with built-in preview for real-time monitoring and video wall status feedback.
- Flexible layout: customizable windows, roaming, scaling, seamless switching, and layer overlay.
- Layer management: up to 8 layers per output, max 16 layers across the wall (Inputs 1–8 share 16 layers; Output 9 shares 8 layers with Inputs 5–8).
- EDID management: selectable built-in EDID, reads and applies display EDID, supports updates.
- Image cropping: allows partial input image display.
- Logo overlay: supports custom logos with adjustable language, font, and size.
- Built-in test patterns: 11 professional signals for system diagnostics.
- Seamless LED/LCD video wall processing with sync display.
- Scrolling text overlay: supports multilingual, scalable fonts on video wall.
- Graphical UI: intuitive control via web interface or PC software.

- Audio control: software-based per-channel volume control and one-touch mute.
- Multiple control options: front panel with LCD, RS232, TCP/IP, web control.
- Output mapping: flexible output port configuration.
- Smart device monitoring: real-time input status, temperature, and version info.
- User access control: multi-user management with permission and port range settings.
- Preset management: save and recall scenes with one click.
- Bezel compensation: adjusts for display gaps to optimize visual performance.

Specifications

Model	VIS-UHD0810-PVW
Input	8 HDMI
Output	10 HDMI, 1 Analog Audio
Video Protocol	HDMI 1.4, HDCP 1.4
Max Resolution	4096 x 2160@30 Hz
HDMI Interface	Type A, 19-pin female connector
Serial Interface	RS-232
Input Cable Length	10m
Output Cable Length	10m
Impedance	100±15 Ω
RJ45 Control Protocol	TCP/IP Protocol
Ethernet Speed	Adaptive 10M/100M/1000M
Storage Environment	Temperature: -20°C ~ +70°C, Humidity: 10%~90%
Operating Environment	Temperature: 0°C ~ +50°C, Humidity: 10%~90%
Power Supply	AC100~240V 50/60Hz
Maximum Power Consumption	65W
Chassis Type	1U
Dimensions (W × D × H)	482x350x46.3mm
Weight	3.5 kg
MTBF	30,000 hours
Warranty	1 year warranty with lifetime maintenance

About VISSONIC Electronics Limited

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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