# 4 x 4 / 8 x 8 HDMI Matrix Switch with Scaler
## VM5404H / VM5808H

● The VM5404H / VM5808H 4 x 4/ 8 x 8 HDMI Matrix Switch is a distinct HDMI solution that offers an easy and affordable way to route any of 4 / 8 HDMI video sources to any of 4 / 8 HDMI displays, with a quick view of all port connections via the front panel LCD.

The VM5404H / VM5808H includes seamless switching that employs a FPGA matrix architecture that ensures continuous video streams, real-time control and stable signal transmissions. With a built in high-performance scaler, the VM5404H / VM5808H easily converts various input resolutions into various output display resolutions, giving viewers the best video and picture quality across all displays. The switch integrates video wall functionality with an easy to use web GUI that lets you create 8/16 connection profiles that can be customized into different video wall layouts.

The VM5404H / VM5808H is an ideal solution for applications that require multiple HDMI displays with multiple HDMI sources to be conveniently setup in multiple locations, such as for stage presentations, competitions, control centers, and installations that require real-time reports.

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | HDCP | EDID | FPGA Design | Scaler | Seamless Switch | Video Wall

● VM5404H Front view



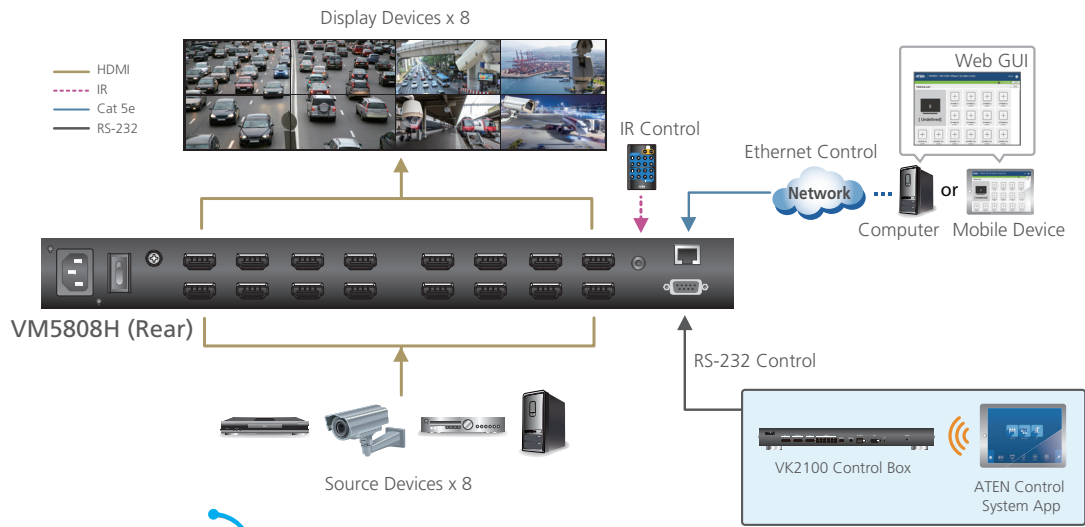● VM5404H Rear view



VM5808H Front view



VM5808H Rear view

# Features

- Connects any of 4 / 8 HDMI sources to any of 4/8 HDMI displays
- Features a built in high-performance scaler for the best image quality
- Seamless Switch™ – ATEN FPGA design unifies video formats to provide continuous video streams, real-time switching and stable signal transmissions
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections
- View and control via ATEN Video Matrix Control App in a swift and agile way
- Supports Dolby True HD and DTS HD Master audio
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- ESD protection for HDMI
- Firmware Upgradeable
- Rack Mountable (1U design)

\* If Seamless Switching is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) resolutions. To make these features available, you must disable Seamless Switching.

# Highlights

| Video Wall | The VM5404H/VM5808H is equipped with Video Wall functionality integrated through an easy to use web GUI. The video wall functionality provides up to 8/16 profiles that you can customize into layouts by setting the display outputs in accordance to your preference, designed from an easy to use web GUI. Through profile setup you can form a single large screen or a variation of multiple screens in different layouts – to see what you want, how you want it. |
|---|---|
| Scaler | The VM5404H/VM5808H is equipped with a high-performance scaling engine that converts various input resolutions into the display's native resolution, giving viewers the best picture and video quality. Low input resolutions are scaled perfectly to the best fit so that video playback is smooth and enjoyable. In addition, the premium scaling engine offers a range of aspect settings that automatically adjusts the picture ratio for maximum viewing comfort. |
| Smooth and Seamless Viewing Experience | The VM5404H/VM5808H's built-in FPGA design unifies video formats and provides continuous video streams, real-time switching and stable signal transmissions. It is capable of high-speed switching between all input/output ports – supporting TMDS high data transfer rates at up to 1080p / 1920 x 1200 @ 60 Hz to minimize latency. |

Display Devices x 8

HDMI
IR
Cat 5e
RS-232

IR Control

Web GUI

Ethernet Control

Network  ...  or

Computer  Mobile Device

VM5808H (Rear)

RS-232 Control

VK2100 Control Box

ATEN Control System App

Source Devices x 8

# Specifications

| Function | VM5404H | VM5808H |
|---|---|---|
| **Video Input** | | |
| Interfaces | 4 x HDMI Type A Female (Black) | 8 x HDMI Type A Female (Black) |
| Impedance | 100 Ω | |
| Max. Distance | 1.8 m | |
| **Video Output** | | |
| Interfaces | 4 x HDMI Type A Female (Black) | 8 x HDMI Type A Female (Black) |
| Impedance | 100 Ω | |
| Max. Distance | 15 m | |
| **Video** | | |
| Max. Data Rate | 6.75 Gbps (2.25 Gbps Per Lane) | |
| Max. Pixel Clock | 225 MHz | |
| Compliance | HDMI (3D, Deep Color) | |
| | HDCP 1.4 Compatible | |
| | Consumer Electronics Control (CEC) | |
| Max. Resolution | Up to 1080p | |
| Max. Distance | Up to 15 m | |
| **Control** | | |
| RS-232 | **Connector:** 1 x DB-9 Female (Black) **Baud Rate and Protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No | |
| IR | 1 x Mini Stereo Jack Female (Black) | |
| **EDID Settings** | EDID Mode: Default / Port1 / Remix / Customized | |
| **Power** | | |
| Connectors | 1 x 3-Prong AC Socket | |
| Maximum Input Power Rating | 100 - 240 VAC; 50 - 60 Hz; 1.0 A | |
| Consumption | 120 VAC, 36.6 W; 230 VAC, 37.5 W | 120 VAC, 60 W; 230 VAC, 62 W |
| **Environmental** | | |
| Operating Temperature | 0° to 50° C | |
| Storage Temperature | -20° to 60° C | |
| Humidity | 0 - 80% RH, Non-Condensing | |
| **Physical Properties** | | |
| Housing | Metal | |
| Weight | 4.10 kg | 4.03 kg |
| Dimensions (L x W x H) | 43.24 x 26.23 x 4.40 cm | 43.24 x 26.23 x 4.40 cm |

*Product information is subject to change without prior notice.*