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> [ATEN VM5808HA 8x8 HDMI Matrix Switch with Scaler and Preview Function User Manual](#)

ATEN VM5808HA

ATEN VM5808HA 8x8 HDMI Matrix Switch User Manual

Model: VM5808HA

1. INTRODUCTION

The ATEN VM5808HA is an 8x8 HDMI Matrix Switch designed to route any of 8 HDMI input sources to any of 8 HDMI output displays. This device incorporates advanced features such as a built-in scaler, seamless switching technology, and a local HDMI output for multi-view preview. It supports various control methods including front panel pushbuttons, RS-232, Ethernet (Telnet/Web GUI), and the ATEN Video Matrix Control app. The VM5808HA is suitable for applications requiring flexible AV signal distribution and management, such as control centers, server rooms, and video wall installations.

2. SAFETY INFORMATION

Please read all instructions carefully before operating this equipment. Follow all warnings and instructions marked on the unit. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Ensure proper grounding and ventilation. Avoid placing the unit near heat sources or in direct sunlight. Disconnect power before cleaning or when not in use for extended periods.

3. PACKAGE CONTENTS

- 1x ATEN VM5808HA 8x8 HDMI Matrix Switch with Scaler
- 1x Power Cord
- 1x Mounting Kit
- 1x User Instructions

4. PRODUCT OVERVIEW

4.1 Front Panel



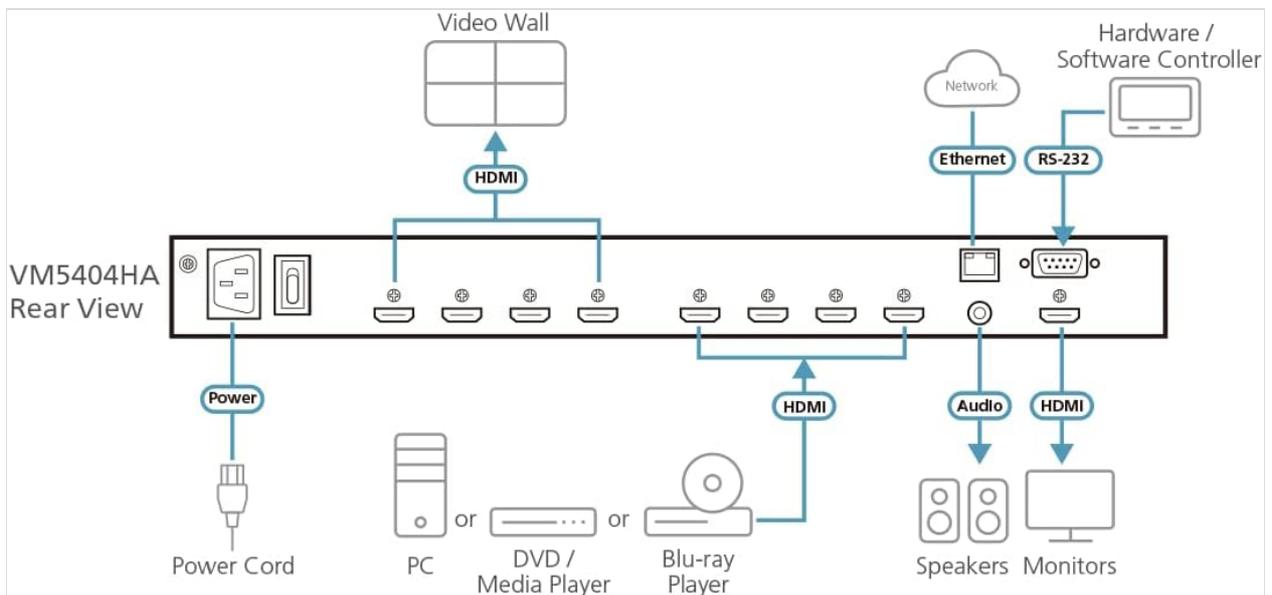
The front panel features an LCD display for status viewing and navigation. It includes input and output selection buttons (1-8) for direct control, along with menu, cancel, profile, and enter buttons for configuration. The '8x8 Matrix Switch VM5808HA' label is visible on the right side.

4.2 Rear Panel



The rear panel provides all necessary connection ports. From left to right, it includes the AC power input with a power switch, eight HDMI output ports, eight HDMI input ports, an Ethernet port for network control, an RS-232 (PC) port for serial control, and a local HDMI output port for previewing. An audio output jack is also present.

4.3 Connection Diagram



This diagram illustrates a typical setup for the VM5808HA. HDMI sources such as PCs, DVD/media players, or Blu-ray players connect to the HDMI input ports. HDMI displays or a video wall connect to the HDMI output ports. Control can be established via an Ethernet connection to a network or a direct RS-232 connection to a hardware/software controller. Speakers can be connected to the audio output, and a local monitor can be connected to the HDMI out port for monitoring.

5. SETUP

- 1. Rack Mounting (Optional):** If rack mounting, secure the unit using the provided mounting kit in a standard 1U rack space.
- 2. Connect HDMI Sources:** Connect your HDMI source devices (e.g., Blu-ray players, computers) to the HDMI input ports (1-8) on the rear panel.
- 3. Connect HDMI Displays:** Connect your HDMI display devices (e.g., monitors, projectors, video wall) to the HDMI output ports (1-8) on the rear panel.
- 4. Connect Local HDMI Output (Optional):** For multi-view preview, connect a local HDMI monitor to the 'HDMI OUT' port.
- 5. Connect Audio Output (Optional):** If audio de-embedding is desired, connect external speakers or an audio system to the stereo audio output jack.

6. Connect Control Interfaces:

- **Ethernet:** Connect an Ethernet cable from the unit's Ethernet port to your network switch or router for Web GUI, Telnet, or ATEN Video Matrix Control app access.
 - **RS-232:** Connect an RS-232 serial cable from the unit's RS-232 port to a control system or PC for serial command control.
7. **Connect Power:** Plug the power cord into the unit's AC power inlet and then into a grounded power outlet.
 8. **Power On:** Flip the power switch on the rear panel to the 'ON' position. The unit will power on and perform a self-test.

6. OPERATING THE VM5808HA

6.1 Front Panel Control

1. **Selecting Input/Output:** Press an 'INPUT' button (1-8) to select the desired source. Then, press an 'OUTPUT' button (1-8) to route that source to the chosen display. The LCD will show the current routing.
2. **Menu Navigation:** Use the 'MENU' button to access system settings. Use the input/output buttons as navigation keys (refer to the full manual for specific menu structures). Press 'ENTER' to confirm selections and 'CANCEL' to exit.
3. **Profile Management:** The 'PROFILE' button allows saving and recalling custom routing configurations.

6.2 Ethernet (Web GUI / Telnet) Control

The VM5808HA can be controlled via a web-based graphical user interface (GUI) or Telnet commands over an Ethernet network.

1. **IP Address Configuration:** Ensure the unit has an IP address compatible with your network. This can be configured via the front panel menu or initial setup.
2. **Accessing Web GUI:** Open a web browser and enter the unit's IP address. Log in with the default credentials (refer to the full manual for details). The Web GUI provides a visual interface for routing, system settings, and advanced features like Video Wall configuration.
3. **Telnet Control:** Use a Telnet client to connect to the unit's IP address on the specified port. Enter command-line instructions for control and configuration.

6.3 RS-232 Control

Connect a control system or PC to the RS-232 port. Use serial commands to control the matrix switch. Refer to the ATEN VM5808HA RS-232 Protocol document for a complete list of commands and syntax.

6.4 ATEN Video Matrix Control App

Download and install the ATEN Video Matrix Control app on a compatible mobile device. Connect the device to the same network as the VM5808HA. The app allows for intuitive viewing of device status and control of routing functions.

7. ADVANCED FEATURES

- **Seamless Switch Technology:** Utilizes FPGA to unify video formats, providing continuous video streams, real-time switching, and stable signal transmission without black screens during transitions.

Note: If Seamless Switching is enabled, 3D, Deep Color, or interlaced resolutions (e.g., 1080i) will not be displayed. Disable Seamless Switching to enable these features.

- **Built-in Scaler:** Automatically converts input video resolutions to match the native resolution of the output display, ensuring optimal video and picture quality.
- **FrameSync Technology:** Prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate, particularly useful for video wall applications.
- **Video Wall Functionality:** Supports customization of up to 16 layouts for various video wall configurations via the intuitive web GUI. *Note: Videos may not display within range when Video Wall is enabled; adjust display settings on your device if this occurs.*
- **EDID Expert:** Selects optimum EDID settings for smooth power-up, high-quality display, and the best resolution across different screens.
- **Audio De-embedding:** HDMI audio can be extracted and routed to the stereo audio output for separate audio systems.
- **Local HDMI Output:** Enables previewing of up to 8 video sources in a multi-view window on a single local display.

8. MAINTENANCE

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the unit. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure adequate airflow around the unit. Do not block ventilation openings.
- **Firmware Upgrades:** Periodically check the ATEN website for firmware updates to ensure optimal performance and access to new features. Follow the provided instructions for firmware upgrade procedures.

9. TROUBLESHOOTING

- **No Video Output:**
 - Verify all HDMI cables are securely connected.
 - Ensure the correct input source is selected for the desired output display.
 - Check if the display is powered on and set to the correct HDMI input.
 - Try disabling Seamless Switching if using 3D, Deep Color, or interlaced resolutions.
 - Check EDID settings.
- **Image Tearing/Distortion:**
 - Ensure FrameSync is enabled, especially for video wall applications.
 - Verify that the scaler is functioning correctly and outputting a compatible resolution for the display.
- **Control Issues:**
 - For Ethernet control, verify network connectivity and IP address settings.
 - For RS-232 control, ensure correct cable connection and serial port settings (baud rate, data bits, parity, stop bits).
 - Check the ATEN Video Matrix Control app for proper network connection and device discovery.
- **No Audio:**
 - Ensure HDMI audio is enabled and correctly de-embedded to the stereo output if using external

speakers.

- Check volume levels on connected audio devices.

10. SPECIFICATIONS

Model Number	VM5808HA
Product Dimensions	17.02 x 14.89 x 1.73 inches
Item Weight	12.19 pounds
Connector Type	HDMI
Compatible Devices	Blu-Ray Player, Gaming Console, Laptop, Monitor, Personal Computer, Satellite Receiver, Television
Cable Type	Ethernet, HDMI
Number of Ports	8 (Input), 8 (Output)
HDMI Features	3D, Deep Color, HDCP 1.4, Dolby True HD, DTS HD Master audio, CEC
ESD Protection	Yes
Rack Mountable	1U Design

11. WARRANTY AND SUPPORT

ATEN products are backed by a limited warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official ATEN website. For technical support, troubleshooting assistance, or to download the latest drivers and firmware, please visit the ATEN support portal or contact ATEN customer service directly. Contact information can be found on the ATEN website.