



**4x4 / 8x8 DVI Matrix Switch with Scaler**  
**VM5404D / VM5808D**  
**User Manual**



## EMC Information

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### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE

STATEMENT: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Warning:** This equipment is compliant with Class A of CISPR 32. In a residential environment, this equipment may cause radio interference.

### KCC Statement

유선 제품용 / A 급 기기 ( 업무용 방송 통신 기기 )  
이 기기는 업무용 ( A 급 ) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며 , 가정 외의 지역에서 사용하는 것을 목적으로 합니다 .

## RoHS

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This product is RoHS compliant.



## Safety

This product has been classified as Information Technology Equipment.

### SJ/T 11364-2006

The following contains information that relates to China.

部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
电器部件	●	○	○	○	○	○
机构部件	○	○	○	○	○	○

- : 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求之下。
- : 表示符合欧盟的豁免条款, 但该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。
- ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

## User Information

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### Online Registration

Be sure to register your product at our online support center:

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International	<a href="http://eservice.aten.com">http://eservice.aten.com</a>
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### Telephone Support

For telephone support, call this number:

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International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-949-428-1111
United Kingdom	44-175-3539-121

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### User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. **PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.**

## Package Contents

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The VM5404D / VM5808D package consists of:

- ◆ 1 VM5404D / VM5808D DVI Matrix Switch with Scaler
- ◆ 1 Power Cord
- ◆ 1 IR Remote Control
- ◆ 1 IR Receiver
- ◆ 1 Mounting Kit
- ◆ 1 User Instructions\*

Check to make sure that all the components are present and that nothing got damaged in shipping. If you encounter a problem, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

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\* Features may have been added to the VM5404D / VM5808D since this manual was published. Please visit our website to download the most up-to-date version.

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Manual Date: 2016-06-29

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## About this Manual

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This User Manual is provided to help you get the most from your VM5404D / VM5808D system. It covers all aspects of installation, configuration and operation. An overview of the information found in the manual is provided below.

**Chapter 1, Introduction**, introduces you to the VM5404D / VM5808D system. Its purpose, features and benefits are presented, and its front and back panel components are described.

**Chapter 2, Hardware Setup**, describes how to set up your VM5404D / VM5808D installation.

**Chapter 3, Front Panel Configuration**, explains the fundamental concepts involved in operating the VM5404D / VM5808D at the local site via the front panel LCD display using pushbuttons.

**Chapter 4, Browser Operation**, provides a complete description of the VM5404D / VM5808D's Browser Graphical User Interface (GUI), and how to use it to remotely configure and operate the VM5404D / VM5808D.


**Chapter 5, RS-232 Protocol Commands**, provides a complete list of the serial control protocol commands used when utilizing the RS-232 Serial Port so that an extra source device can be utilized in the installation.

**An Appendix**, provides specifications and other technical information regarding the VM5404D / VM5808D.

## Conventions

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This manual uses the following conventions:

- Monospaced** Indicates text that you should key in.
- [ ] Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1. Numbered lists represent procedures with sequential steps.
- ◆ Bullet lists provide information, but do not involve sequential steps.
- Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the *Start* menu, and then select *Run*.
-  Indicates critical information.

## Product Information

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For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	<a href="http://www.aten.com">http://www.aten.com</a>
North America	<a href="http://www.aten-usa.com">http://www.aten-usa.com</a>

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# Chapter 1

## Introduction

### Overview

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The ATEN VanCryst VM5404D / VM5808D 4 x 4 / 8 x 8 DVI Matrix Switch with Scaler is a versatile solution that provides an easy way to route high definition video and audio from any of 4/8 DVI sources to any of 4/8 DVI displays at the same time. As a Matrix Switch, each input can be independently connected to any or all outputs, giving you the ultimate in flexibility and control in any multi-display audio/video installation.

The VM5404D / VM5808D features Seamless Switching, which employs FPGA matrix system architecture to seamlessly switch between multiple sources and multiple displays. With EDID Expert technology, the VM5404D / VM5808D selects the optimum EDID settings for smooth power-up and the highest quality display. It also features a high-performing scaling engine that converts the video resolution into the display's native resolution to give you the best image quality.

You can easily configure the VM5404D / VM5808D via the front panel LCD display and pushbuttons, and through the use of an IR Remote Control. The LCD provides a quick view of all port connections, and lets operators access the unit's built-in configuration utility.

Furthermore, the VM5404D / VM5808D allows convenient configuration and operation via an intuitive Graphical User Interface (GUI) using any web browser. The web GUI provides you with advanced features which include easy setup of custom Video Wall and Digital Signage configurations that can be saved and recalled. Because your VM5404D / VM5808D can be controlled over a standard TCP/IP connection, it conveniently integrates into any existing network for easy remote access. For complete system and install integration, serial control is standard through the VM5404D / VM5808D's built-in RS-232 port that allows the switch to be controlled through a high-end controller or PC.

The VM5404D / VM5808D is an ideal solution for applications that require DVI outputs from multiple sources to be conveniently delivered to multiple destinations, such as for stage presentations, competitions, control centers, and system installations that require real-time reports.

## Features

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- ◆ 4x4 or 8x8 DVI I/O connections
- ◆ Extends IR transmission via IR extension cable
- ◆ Scaler – features a video scaling function to integrate a video wall seamlessly with various output video formats
- ◆ Seamless Switch™ – features close-to-zero second switching that provides 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 high quality display
- ◆ Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232 and Ethernet (Telnet / Web GUI) connections
- ◆ Video Wall – features up to 8/16 video wall profiles for custom screen layouts via a point-n-click web GUI
- ◆ Firmware Upgradeable
- ◆ Rack Mountable (1U Design)

## **Requirements**

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The following devices are required for a complete VM5404D / VM5808D installation:

### **Source Devices**

- ◆ Computer or A/V source device with DVI-D output connector(s)

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**Note:** A DVI/HDMI adapter is required when connecting a HDMI source device.

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### **Display Devices**

- ◆ Display devices or receivers with an DVI input connector

### **Cables**

- ◆ 1 DVI cable for each source device you will be connecting
- ◆ 1 DVI cable for each display device you will be connecting
- ◆ 1 Cat 5e cable
- ◆ 1 RS-232 serial cable

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**Note:** No cables are included in this package. We strongly recommend that you purchase high-quality cables of appropriate length since this will affect the quality of the audio and video display. Contact your dealer to purchase the correct cable sets.

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## **Source Device Operating Systems**

Supported operating systems are shown in the table below:

<b>OS</b>		<b>Version</b>
Windows		2000 and higher
Linux	RedHat	6.0 and higher
	SuSE	8.2 and higher
	Mandriva (Mandrake)	9.0 and higher
UNIX	AIX	4.3 and higher
	FreeBSD	3.51 and higher
	Sun	Solaris 8 and higher
Novell	Netware	5.0 and higher
Mac		OS 9 and higher
DOS		6.2 and higher

## **Browsers**

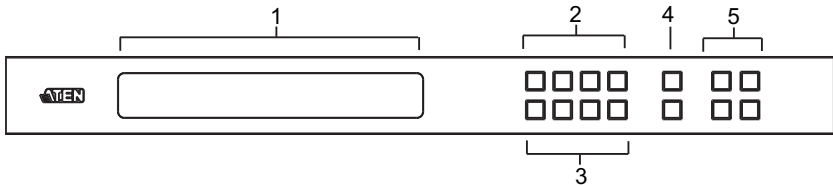
Supported web browsers are shown in the table below:

<b>OS</b>	<b>Java Version</b>	<b>Browser</b>	<b>Version</b>
Windows 8.1	V1.8.0_60	Chrome	45.0.2454.85 m
		Firefox	40.0.3
		Safari	5.1.7
		Opera	31.0.1889.174
		IE11	11
Windows 2012 R2 (64bit)	V1.8.0_60 (64bit)	IE11	11 (64bit)
Windows 2008 R2 (64bit)	V1.8.0_60 (64bit)	IE8	8
Windows 7 SP1(64bit)	V1.8.0_60 (64bit)	IE10	10 (64bit)
Windows XP	V1.8.0_60	IE8	8
CentOS 7.0 (64Bit)	V1.8.0_60 (64bit)	Firefox	40.0.3
Ubuntu 12.04	V1.8.0_60	Chrome	45.0.2454.85
Solaris 11(64bit)	V1.8.0_25	Firefox	33
Mac 10.10	V1.8.0_25	Safari	8



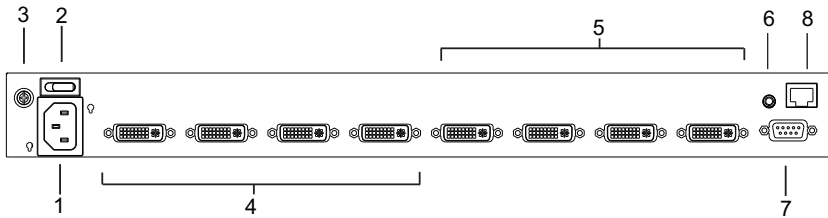
# Components

## VM5404D Front View



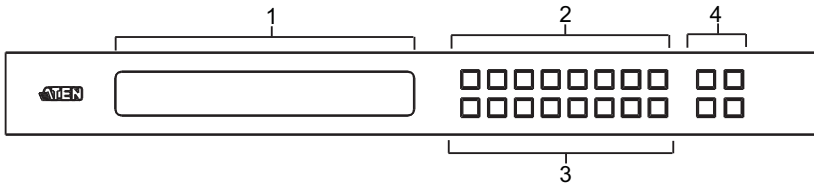
No.	Component	Description
1	LCD Display	The LCD Display gives a quick view of all port connections, and shows the various options for configuring and operating the VM5404D. For full details, see <i>Main Screen</i> , page 17.
2	Input Pushbuttons	These pushbuttons refer to the DVI Input ports found on the VM5404D rear panel. Press to select the Input port. These pushbuttons may also correspond to menu options, connection profiles (P1–P4) and so on. <b>Note:</b> The <b>INPUT</b> (1–4) front panel pushbuttons have built-in LEDs that light to indicate they have been selected.
3	Output Pushbuttons	These pushbuttons refer to the DVI Output ports found on the VM5404D rear panel. Press to select the Output port. These pushbuttons may also correspond to connection profiles (P5–P8). <b>Note:</b> The <b>OUTPUT</b> (1–4) front panel pushbuttons have built-in LEDs that light to indicate they have been selected.
4	Prev / Next Pushbuttons	These pushbuttons allow you to cycle through the menu options on the LCD display.
5	Function Pushbuttons	The function pushbuttons ( <b>MENU</b> , <b>PROFILE</b> , <b>ENTER</b> and <b>CANCEL</b> ) are for navigating the LCD built-in configuration utility. For full details, see <i>Front Panel Pushbuttons</i> , page 15. <b>Note:</b> The <b>MENU</b> and <b>PROFILE</b> front panel pushbuttons have built-in LEDs that light to indicate they have been selected.

## VM5404D Rear View



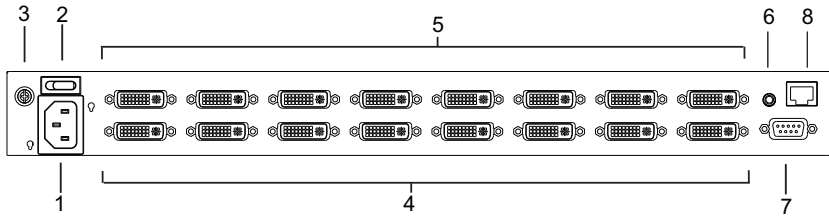
No.	Component	Description
1	Power Socket	This is a standard 3-pin AC power socket. The power cord from an AC source plugs in here.
2	Power Switch	This is a standard rocker switch that powers the unit on and off.
3	Grounding Terminal	The grounding wire attaches here. See <i>Grounding</i> , page 12, for further details.
4	DVI Output Ports	The cables from your DVI source devices plug into these ports.
5	DVI Input Ports	The cables from your DVI display devices plug into these ports.
6	IR Port	Connect the IR Receiver unit included with your product via this 3.5 mm Mini Stereo Jack.
7	RS-232 Serial Port	Connect a computer or high-end system controller via this serial port.
8	Ethernet Port	In order to access the VM5404D's Browser Graphical User Interface (GUI), the VM5404D must be connected to your network. The cable that connects the VM5404D to your LAN plugs in here. See <i>Cable Connection</i> , page 13, for further details

## VM5808D Front View



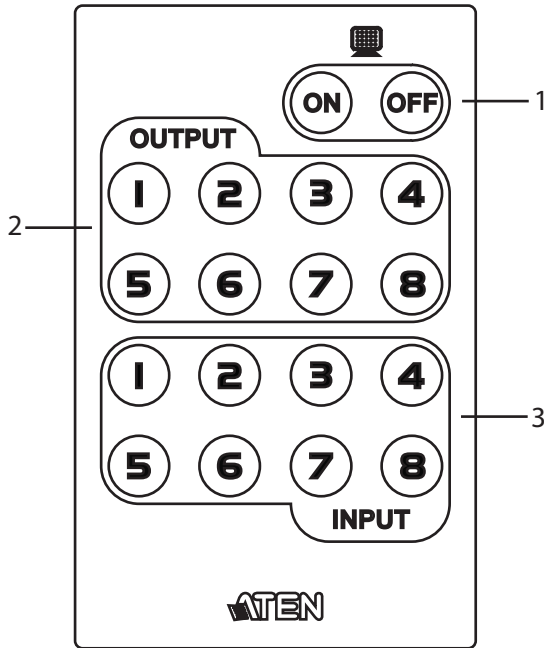
No.	Component	Description
1	LCD Display	The LCD Display gives a quick view of all port connections, and shows the various options for configuring and operating the VM5808D. For full details, see <i>Main Screen</i> , page 17.
2	Input Pushbuttons	These pushbuttons refer to the DVI Input ports found on the VM5808D rear panel. Press to select the Input port. These pushbuttons may also correspond to menu options, connection profiles (P1–P8) and so on. <b>Note:</b> The <b>INPUT</b> (1–8) front panel pushbuttons have built-in LEDs that light to indicate they have been selected.
3	Output Pushbuttons	These pushbuttons refer to the DVI Output ports found on the VM5808D rear panel. Press to select the Output port. These pushbuttons may also correspond to connection profiles (P9–P16). <b>Note:</b> The <b>OUTPUT</b> (1–8) front panel pushbuttons have built-in LEDs that light to indicate they have been selected.
4	Function Pushbuttons	The function pushbuttons ( <b>MENU</b> , <b>PROFILE</b> , <b>ENTER</b> and <b>CANCEL</b> ) are for navigating the LCD built-in configuration utility. For full details, see <i>Front Panel Pushbuttons</i> , page 15. <b>Note:</b> The <b>MENU</b> and <b>PROFILE</b> front panel pushbuttons have built-in LEDs that light to indicate they have been selected.

## VM5808D Rear View



No.	Component	Description
1	Power Socket	This is a standard 3-pin AC power socket. The power cord from an AC source plugs in here.
2	Power Switch	This is a standard rocker switch that powers the unit on and off.
3	Grounding Terminal	The grounding wire attaches here. See <i>Grounding</i> , page 12, for further details.
4	DVI Input Ports	The cables from your DVI source devices plug into these ports.
5	DVI Output Ports	The cables from your DVI display devices plug into these ports.
6	IR Port	Connect the IR Receiver unit included with your product via this 3.5 mm Mini Stereo Jack.
7	RS-232 Serial Port	Connect a computer or high-end system controller via this serial port.
8	Ethernet Port	In order to access the VM5808D's Browser Graphical User Interface (GUI), the VM5808D must be connected to your network. The cable that connects the VM5808D to your LAN plugs in here. See <i>Cable Connection</i> , page 13, for further details

## IR Remote Control



No.	Component	Description
1	Power ON/OFF	Use the <b>ON</b> and <b>OFF</b> pushbuttons to turn the Output displays on or off – by individual port, or all ports. (see <i>IR Remote Control Operation</i> , page 34)
2	Output Pushbuttons 1–8	Press <b>Output</b> display pushbuttons 1–8 to select the Output display you want to configure (see <i>IR Remote Control Operation</i> , page 34).
3	Input Pushbuttons 1–8	Press <b>Input</b> source pushbuttons 1–8 to select the Input source you want to display on a selected output (see <i>IR Remote Control Operation</i> , page 34).

**Note:** The VM5404D's IR remote control only supports use of the 1~4 Input and 1~4 Output pushbuttons.

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## Chapter 2

# Hardware Setup



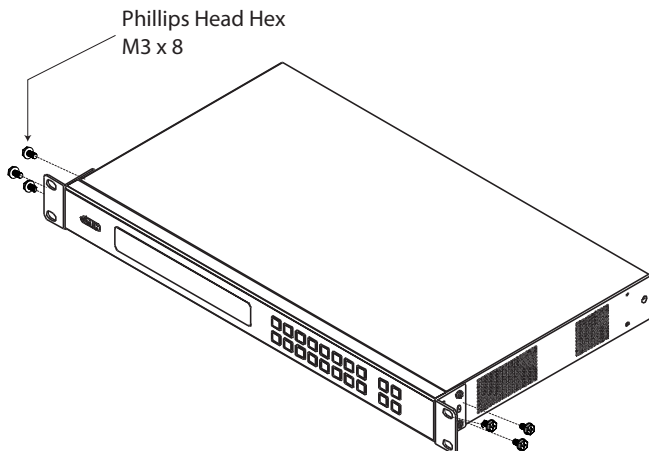
1. Important safety information regarding the placement of this device is provided on page 101. Please review it before proceeding.
2. Make sure that the power to all devices connected to the installation are turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

### Rack Mounting

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The VM5404D / VM5808D can be mounted in a 19" (1U) system rack. For the most convenient front panel pushbutton configuration and operation at the local site, mount the unit at the front of the rack, as follows:

1. Use the M3 x 8 Phillips head hex screws supplied with the Mounting Kit to screw the rack mounting brackets onto the front of the unit.



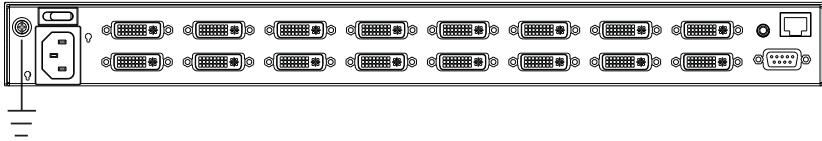
2. Position the unit in the front of the rack and align the holes in the mounting brackets with the holes in the rack.
3. Screw the mounting brackets to the rack.

## Grounding

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To prevent damage to your installation, it is important that all devices are properly grounded.

1. Use a grounding wire to ground the VM5404D / VM5808D by connecting one end of the wire to the grounding terminal, and the other end of the wire to a suitable grounded object.



2. Make sure that all devices in your VM5404D / VM5808D installation are properly grounded.



## Cable Connection

---

Installation of the VM5404D / VM5808D is simply a matter of connecting the appropriate cables. Refer to the installation diagram on the following page (the numbers in the diagram correspond to the steps below), and do the following:

1. Use a grounding wire to ground the unit by connecting one end of the wire to the grounding terminal, and the other end of the wire to a suitable grounded object.

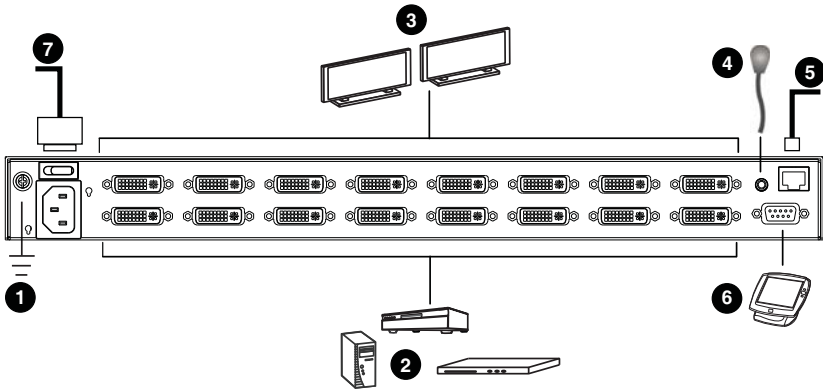
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**Note:** Do not omit this step. Proper grounding helps to prevent damage to the unit from surges or static electricity.

---

2. Connect up to 4 (VM5404D) or 8 (VM5808D) DVI video sources to the **DVI Input** ports
3. Connect up to 4 (VM5404D) or 8 (VM5808D) DVI display devices to the **DVI Output** ports
4. Connect the IR Receiver into the **IR** port.
5. (Optional) If using the Browser Operation features (see *Browser Operation*, page 37), plug a Cat 5e cable from the LAN into the VM5404D / VM5808D's **Ethernet** port.
6. (Optional) If you are using the serial control function, use an appropriate RS-232 serial cable to connect the computer or serial controller to the VM5404D / VM5808D's female **RS-232 Serial** port.
7. Plug the power cord supplied with the package into the VM5404D / VM5808D's 3-prong AC socket, and then into an AC power source.
8. Power on the VM5404D / VM5808D and all devices in the installation.

## Installation Diagram



# Chapter 3

## Front Panel Configuration

### Overview

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The VM5404D / VM5808D can be configured and operated locally via the front panel LCD/pushbuttons and IR Remote Control; remotely over a standard TCP/IP connection via graphical user interface (GUI) using a web browser; via a remote terminal session using Telnet; or by a RS-232 serial controller.

The local front panel operation is discussed in this chapter. Web GUI Operation is discussed in Chapter 4, and RS-232 serial control is discussed in Chapter 5.

### Front Panel Pushbuttons

---

The front panel features an LCD display and pushbuttons for convenient operation locally. This allows users to perform operations such as selecting which source shows on which display, viewing the IP settings, configuring the serial port, setting the EDID Mode / OSD / Output Status, selecting security settings, and loading/saving profiles.

Note the following front panel pushbutton functions:

- ◆ Use the **MENU** pushbutton to access the Menu page options: IP Setting, Serial Port Setting, Operation Mode, Security Mode, and Save to a Profile (see *LCD Menu Organization*, page 21).
- ◆ Use the **PROFILE** pushbutton to switch between the connection profiles which have been added to the Profile List (see *Profile List*, page 39). Pressing this pushbutton for longer than 3 seconds displays the Save to a Profile page (see *Save to a Profile*, page 31).
- ◆ Use the **CANCEL** pushbutton to go back to a previous page, return to the Main Screen, stop or exit an operation.
- ◆ Use the **ENTER** pushbutton to select options and confirm operations.
- ◆ Use the **INPUT / OUTPUT (1–8)** or **(1-4)** pushbuttons to select the Input/Output port. These pushbuttons may also correspond to menu options, connection profiles, and so on.
- ◆ The VM5404D provides **Prev / Next** pushbuttons to navigate the menus.
- ◆ Use pushbuttons **7/8** (Prev/Next) to navigate the VM5808D menus.

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## Enter Password

---

Upon VM5404D / VM5808D startup, check the front panel LCD to view the loading progress. If the Password screen / LCD Menu fails to load, an error message displays. Reset the unit and try again.

If you are accessing the VM5404D / VM5808D for the first time, the Password screen appears as soon as the LCD loading process is done. Enter the default password 1234 to continue to the Main Screen (see *Main Screen*, page 17).



Additionally, the Password Screen appears if the VM5404D / VM5808D has been configured to require a password for Front Panel operation (see *Security Mode*, page 29).

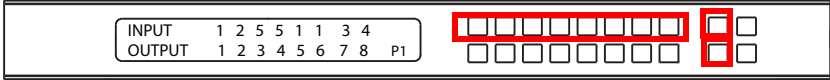
To enter a password, do the following:

1. In the **Enter Password** field, check that the cursor is at the first asterisk (\*) and flashing.
2. Use the front panel Input Port pushbuttons (1–8) or (1–4) to enter the 4-digit password. After the fourth digit has been entered correctly, the Main Screen displays.
3. Press **Cancel** to clear the password. The digits revert to 4 asterisks and the cursor goes back to the first asterisk.

- 
- Note:**
1. The VM5404D / VM5808D password can be any four digit combination between 1111 to 8888 (VM5808D) or 1111 to 4444 (VM5404D). The default password is 1234.
  2. If you enter an incorrect password, the cursor goes back to the first digit and reverts to flashing. The Incorrect Password message displays at the bottom of the screen, but clears as soon as a new password is entered.
  3. If Password option is Enabled (see *Security Mode*, page 29), the LCD display time-out is 5 minutes by default.
-

## Main Screen

The Main Screen shows the Input ports in the top row, which are tied to the Output ports shown in sequential order (1–8) or (1–4) at the bottom row.



- The front panel pushbutton label (1–8) or (1–4) corresponds to the **Input** ports and **Output** ports on the unit's rear panel.
- Use the **Menu** pushbutton to view the LCD Menu (see *LCD Menu Organization*, page 21).
- Use the **Profile** pushbutton to switch between profile connections (see *Profile List*, page 39).

## Port Switching

From the Main Screen, users can configure the Input-to-Output port connections to associate an Input source device to an Output display.

### Input Port Selection

Use the Input Port pushbuttons to select the Input port you want to configure.



To select which input source displays on each output port, do the following:

1. Press any Input port pushbutton (1–8) or (1-4). The Output port LED(s) tied to the said Input port will begin to flash. Available output port LED(s) will light up (steady).

In the example below, pressing Input port **1** shows it is tied to Output ports **1** and **2**.



(Continues on next page.)

(Continued from previous page.)

- To disconnect an Output port from an Input port, press the corresponding Output port pushbutton.

In the example below, Output port **2** has been disconnected from Input port **1**.



- To switch to another Input port, press any Input port pushbutton. The Output port LED(s) tied to the said Input port will flash.

In the example below, pressing Input port **2** shows it is tied to Output ports **3** and **4**.



- To connect Output port **2** to Input port **2** in the example above, then press the Output port **2** pushbutton. The Output port **2** LED will also begin to flash (0.5 sec on, 0.2 sec off). This indicates that Input port **2** is now connected to Output ports **2**, **3** and **4**.



Once the signal from the selected Input port is successfully tied to the Output port, the LEDs turn off and the LCD information is updated.

---

**Note:** 1. Pressing an Input port a second time deselects it.

- Input ports that are not configured or tied to any output port do not in the LCD screen.
  - Pressing the **Cancel** pushbutton once stops the Input Port Selection operation and the LCD displays the active setting. Pressing the **Cancel** pushbutton again turns all LEDs off.
  - After 10 seconds of inactivity, all the LEDs turn off.
-

## Output Port Selection

Use the Output Port pushbuttons to select the Output port you want to configure.



To select which output display corresponds to each input source device, do the following:

1. Press any Output port pushbutton (1–8) or (1–4).

In the example below, Output port **1** pushbutton has been pressed.

Available Input ports light up. Because no Input LEDs are flashing, no ports have already been assigned to Output port **1**.



2. If an Output port pushbutton is pressed a second time, it is deselected and the LED turns off.
3. To connect the selected Output port(s) to an Input port, press the Input port pushbutton. to which you want the Output port(s) tied. The newly selected Input port LED flashes (0.5 sec on, 0.2 sec off), and the LCD information is updated.

In the example below, pressing Input port **2** ties it to Output ports **2, 3** and **4**.



4. To switch Output ports **2**, **3** and **4** to another Input port (and disconnect it from Input port **2**), press another Input port pushbutton to which you want them tied.

In the example below, Input port **3** has been pressed and is now connected to Output ports **2**, **3** and **4**.



- 
- Note:**
1. Pressing an Output port a second time deselects it.
  2. Pressing the **Cancel** pushbutton once stops the Output Port Selection operation, and the LCD displays the active setting. Pressing the **Cancel** pushbutton again turns all LEDs off.
  3. After 10 seconds of inactivity, all the LEDs turn off.
-



## LCD Menu Organization

The VM5404D / VM5808D has a built-in configuration utility via the front panel LCD, which can be controlled by pressing the **MENU** and front panel Input pushbuttons (1–8). User can cycle through the menu options, starting from IP Setting page, in the order shown in the table below:

Menu Page	Sub-Menu Page(s)	
IP Setting	IP Address	
	Subnet Mask	
	Gateway	
Serial Port Setting	Baud Rate	9600 / <b>19200</b> / 38400 / 115200
Operation Mode	EDID	<b>Default</b> / Port1 / Remix / Customized
	OSD	<b>On</b> / NA
	Output Status	Video
Output Resolution		01-04 (VM5404H); 01-08 (VM5808H)
Security Mode	Mode	<b>None</b>
		Password Enable
		Lock Screen
	Change Password	Old Password
Save to a Profile	Save to a Profile No.	01–08 (VM5404D); 01-16 (VM5808D)
Play/Stop the Profile Schedule		
Turn Video Wall Off		

**Note:** The highlighted values are the default settings of the VM5404D / VM5808D.

## Menu Pushbutton

Press the **MENU** pushbutton to switch between the Main Screen and LCD Menu page. When the Menu is active, the MENU pushbutton's built-in LED lights up:



From the Menu page:

- ◆ Press **1** to go to the IP Setting page (see *IP Setting*, page 22)
- ◆ Press **2** to go to the Serial Port Setting page (see *Serial Port Setting*, page 24)
- ◆ Press **8/Next** to go to the next page(s) for the sub-menu pages
- ◆ Press **Menu** or **Cancel** to return to the Main Screen

### IP Setting

The IP Setting page displays the VM5404D / VM5808D's IP configuration. The values in the LCD Menu are read-only and can be edited via the Browser GUI (*OSD*, page 74).

### IP Address / Subnet Mask

To view the VM5404D / VM5808D's IP address and Subnet Mask, do the following:

1. From the Menu page, press **1** to see the IP Setting submenu. The IP address and Subnet Mask are then shown.



**Note:** The VM5404D / VM5808D default IP address is 192.168.0.60. The default Subnet Mask is 255.255.255.0

2. Press **8/Next** to go to the next page.
3. Press **Menu** to return to the Menu page.
4. Press **Cancel** to return to the previous page without saving.

## Gateway

To view the VM5404D / VM5808D's gateway address, do the following:

1. From the Menu page, press **1** to see the IP Setting submenu, then press **8** to get to the next page. The gateway address displays.

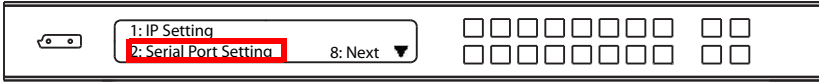


**Note:** The default Gateway is 192.168.0.1.

2. Press **7/Prev** to go to the previous page.
3. Press **Menu** to return to the Menu page.
4. Press **Cancel** to return to the previous page without saving.

## Serial Port Setting

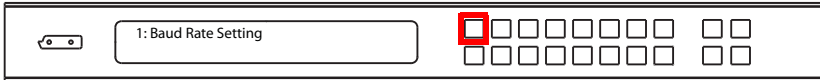
To configure the VM5404D / VM5808D's baud rate for its serial port connection, select Serial Port Setting from the Menu page.



### Baud Rate

To set the VM5404D / VM5808D's baud rate, do the following:

1. Select **Baud Rate Setting** from the Serial Port Setting submenu by pressing **1**:



2. Press pushbuttons 1–4 to make your selection.



Baud Rate options are:

- ◆ **1:** 9600
- ◆ **2:** 19200
- ◆ **3:** 38400
- ◆ **4:** 115200

---

**Note:** The default baud rate is 19200.

---

3. Press **Menu** to return to the Menu page.
4. Press **Cancel** to return to the previous step without saving.

## Operation Mode

The EDID Mode, OSD and Output Status features can be configured from the Operation Mode page.

- ◆ EDID (Extended Display Identification Data) is used to have the VM5404D / VM5808D automatically apply a preset video configuration or EDID Mode, which utilizes the best resolution across different monitors
- ◆ The OSD, when enabled for a port, lets an attached display/monitor show real-time port switching information
- ◆ The Output Status shows whether the video/audio of an Output port is turned on or off and allows viewing and setting of the Output Resolution

To configure the VM5404D / VM5808D's operation mode settings from the Main Screen, use the **Menu** pushbutton to access the Menu page, press **8/Next** to navigate to the next page, then press pushbutton **1** to access the Operation Mode page.



## EDID Mode

To configure the EDID Mode, do the following:

1. From the Operation Mode page, press pushbutton **1**:



*(Continues on next page.)*

- Press pushbuttons 1–4 to make your selection.



EDID Mode options are:

EDID Option	Description
1: Port1	The EDID from port1 is passed to all video sources.
2: Default	The default EDID is passed to all video sources.
3: Remix	Uses the EDID of each connected display according to its connection when the VM5404D / VM5808D is first powered on, or immediately after pressing 3 to select the Remix option.
4: Customized	Automatically retrieves and saves the EDID settings of a connected monitor/display device to an input source port. This can be configured using the Browser GUI. See <i>Customized EDID Settings</i> , page 69.

- Press **Menu** to return to the Menu page.
- Press **Cancel** to return to the previous step without saving.

## OSD

The On-Screen Display or OSD feature enables real-time text updates to appear on the display device’s screen for any configuration changes made to the Output port via the VM5404D / VM5808D’s front panel, IR remote control or Browser GUI.

To configure the OSD setting for each output port, do the following:

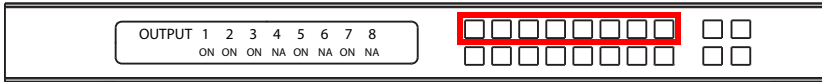
- From the Operation Mode page, press **8** or **Next** to go to the next page, then press pushbutton **1**:



- From the Output Status page, press pushbutton **1**:



- Press pushbuttons (1–8) or (1–4) to enable (**ON**) or disable (**NA**) the OSD feature for the output port.




---

**Note:** The default OSD setting is On.

---

- Press **Menu** to return to the Menu page.
- Press **Cancel** to return to the previous step without saving.

### Output Status

To configure the Output Status settings for each output port, do the following:

- From the Operation Mode page, press **8** or **Next** to go to the next page, then press pushbutton **2**:



- From the Output Status page, press **1** to select Video.



- Press pushbuttons (1–8) or (1–4) to enable (**ON**) or disable (**NA**) the video/audio of the output port.




---

**Note:** The default Output Status setting is On.

---

- Press **Menu** to return to the Menu page.
- Press **Cancel** to return to the previous step without saving.

To configure the Output Resolution settings for each output port, do the following:

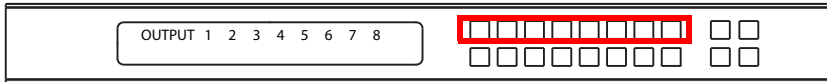
1. From the Operation Mode page, press **8** or **Next** to go to the next page, then press pushbutton **2**:



2. From the Output Status page, press **2** to select Output Resolution.



3. Press pushbuttons (1–8) or (1–4) to select an output port whose resolution will be changed.



4. Available options include: Native Resolution, 1024x768@60Hz, 1280x720@60Hz, 1280x1024@60Hz, 1400x1050@60Hz, 1600x1200@60Hz, 1920x1080@60Hz, 1920x1200@60Hz, 1280x720@50Hz, 1920x1080@50Hz, 1280x800@60Hz, 720x576@50Hz and 1600x900@60Hz.
5. Press **Menu** to return to the Menu page.
6. Press **Cancel** to return to the previous step without saving.



## Security Mode

The Security Mode page allows users to manage the VM5404D / VM5808D's security-related settings. Three security modes are available: None, Password Enable and Lock Screen. The VM5404D / VM5808D's password can also be changed here.

To configure the VM5404D / VM5808D's security settings from the Main Screen, use the **Menu** pushbutton to access the Menu page, press **8** or **Next** to navigate to the next page, then press pushbutton **2** to access the Security Mode page.

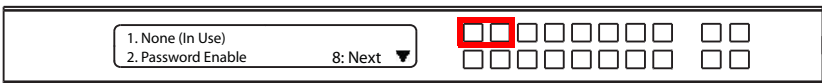


## Mode

- To change the VM5404D / VM5808D's security mode, press pushbutton **1** in Security Mode.



- In the Mode menu, to disable security settings, press pushbutton **1**. The menu will then return to Security Mode. To require a password after the LCD display times out or is powered off/on, press pushbutton **2**. The menu will then return to the home screen.



**Note:** If Password is Enabled, the LCD display's default time-out is 5 minutes. The VM5404D / VM5808D's default password is 1234.

- To enable a lock screen, press **8** or **Next** to navigate to the next page, then press pushbutton **1**. The menu will then return to the home screen. When Lock Screen is enabled, pressing any pushbutton from the home screen will trigger the following message: *Please press "Menu" to start.*



4. Press **Menu** to return to the Menu page.
5. Press **Cancel** to return to the previous step without saving.

### Change Password

1. To change the password for accessing the unit, press pushbutton **2**.



2. In the Old Password field, the cursor flashes at the first digit. Enter the old password (see *Enter Password*, page 16). If the old password is entered correctly, you can proceed to the next step.



**Note:** If you entered an incorrect password, an error message appears and the cursor goes back to the first digit (flashing). The Incorrect Password message clears as soon as a new digit is entered.

---

3. In the New Password field, the cursor flashes at the first digit. Enter the new password using the front panel number pushbuttons VM5808H: (1111–8888) or VM5404H: (1111–4444).



4. Re-enter the new password in the following screen. The new password is applied by the VM5404D / VM5808D immediately.



If the password you entered does not match the one entered in the previous screen, an error message appears. Enter the new password correctly.

5. Press **Menu** to return to the Menu page.
6. Press **Cancel** to return to the previous step without saving.

## Save to a Profile

The switch allows users to store up to 8 (VM5404D) or 16 (VM5808D) (numbered P1–P16) different connection profiles that can be saved and recalled later.

The active Input-to-Output port connections on the LCD Main Screen is the configuration saved to a profile. When a user loads a profile, the change is immediate and the profile number is shown on the lower right corner of the LCD screen.

To save a profile once the desired port connections are set, do the following:

1. Press the **Menu** pushbutton to access the Menu page, then **8/Next** to navigate to the next pages. Press pushbutton **1** to open the select Save to a Profile page.



2. On the page that opens, you are asked to give the profile a number. Use the front panel number pushbuttons to select a profile number into which you want to save the configuration.



**VM5404D:** Options are P1–P8 (when saving a profile via the LCD), where:

- ◆ Input port pushbuttons **1–4** correspond to Profile **P1** to **P4**
- ◆ Output port pushbuttons **1–4** correspond to Profile **P5** to **P8**

**VM5808D:** Options are P1–P16 (when saving a profile via the LCD), where:

- ◆ Input port pushbuttons **1–8** correspond to Profile **P1** to **P8**
- ◆ Output port pushbuttons **1–8** correspond to Profile **P9** to **P16**

3. Press **Enter** to store the configuration – the LCD shows Profile Saved.
4. Press **Menu** to return to the Menu page,
5. Press **Cancel** to return to the previous step without saving.

**Note:** Access the Save to a Profile page quickly by pressing the **Profile** pushbutton for longer than 3 seconds.

## **Play/Stop the Profile Schedule**

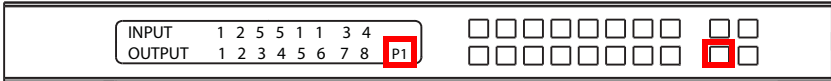
Inputting port pushbutton 2 will Play or Stop the active Profile Schedule.



## Profile Pushbutton

The **PROFILE** pushbutton lets users conveniently switch between connection profiles that have been saved or added to the Profile List (see *Profile List*, page 39).

When a Profile is in use, its profile number (P1–P16) is shown on the lower right corner of the LCD display.



The Profile pushbutton functions as follows:

- ◆ After pressing the Profile pushbutton, available profile numbers will light up. The active profile number will flash. Use the Input/Output pushbuttons to switch to a specific profile (P1 to P16) or (P1 to P8). Note that:
  - ◆ **Input** ports **1–8** or **1-4** correspond to Profile **P1** to **P8** or **P1** to **P4**
  - ◆ **Output** ports **1–8** or **1-4** correspond to Profile **P9** to **P16** or **P5** to **P8** (where Output Port 1=Profile 9, Output Port 2=Profile 10... Output Port 8=Profile 16)
- The selected pushbutton's light flashes, and the VM5404D / VM5808D immediately applies the port connections configured in the selected profile. If the light changes to a steady state, it means the profile is valid.
- ◆ After pressing the Profile pushbutton, pressing it again will change to next profile in Profile Scheduling (see page 44), not the profile list. This feature is only available while a schedule is playing.
- ◆ Press the **Cancel** pushbutton to exit

---

**Note:** If there are no profiles configured on the VM5404D / VM5808D device, an error message “No Available Profile” is displayed when the Profile pushbutton is pressed.

---

A Profile's port connections can be edited using the front panel pushbuttons (see *Port Switching*, page 17) or from the *Connections* page of the Browser GUI (see *Connection Profiles*, page 46). Additionally, the Profile List can be configured via the Profile page of the Browser GUI (see *Profile List*, page 39).

## **IR Remote Control Operation**

The IR remote control (*IR Remote Control*, page 9) included with the VM5404D / VM5808D can be used to:

- ◆ change the Input source of any Output display
- ◆ power on/off individual Output displays; or
- ◆ power on/off all Output displays simultaneously

Before using the remote control, a user must first plug the IR External Receiver into the rear panel of the VM5404D / VM5808D and place the receiver where the IR signal can be reached (see *IR Port*, page 8).

### **Change the Input source of an Output display**

To change the Input source of an Output display, using the remote control, do the following:

1. Press the **Output** port number (**1–8**) or (**1-4**) you want to change.
2. Within 2 seconds press the **Input** port number (**1–8**) or (**1-4**) you want the Output port to display.\*
3. Repeat steps 1-2 to change additional ports.

\*For the change to occur the Input number must be pressed within 2 seconds of pressing the Output number.

### **Power on/off individual Output displays**

To power on/off individual Output displays, using the remote control, do the following:

1. Press the **Output** port number (**1–8**) or (**1-4**) you want to power on/off.
2. Within 2 seconds press the **ON** or **OFF** pushbutton.\*
3. Repeat steps 1-2 to change the power status back on/off.

\*If the **ON** or **OFF** pushbutton is pressed *after* 2 seconds of pressing the Output port number, all the displays are powered on or off instead of just the intended Output port.

## **Power on/off all Output displays**

To power on/off all Output displays simultaneously, with the remote control, do the following:

1. Press the **ON** or **OFF** pushbutton.\*
2. Repeat step 1 to simultaneously change back the power status of all Output ports, to on or off, respectively.

\*The **ON** or **OFF** pushbuttons bring all displays to the same power status, regardless of the individual power statuses.

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# Chapter 4

## Browser Operation

### Overview

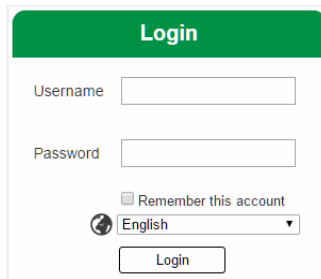
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The VM5404D / VM5808D can be configured over a standard TCP/IP connection via its built-in Graphical User Interface (GUI). Because it can be accessed from anywhere over a network or the Internet, operators can easily log in via web browser. Security is ensured by password protection and user-configurable time-out. The VM5404D / VM5808D supports three levels of remote users with various privileges, and up to 32 users can log into the GUI at one time. For full details, see the sections that follow.

### Logging In

---

To access the GUI, type the VM5404D / VM5808D's IP address into the address bar of any browser. If a Security Alert dialog box appears, accept the certificate – it can be trusted. The login screen appears:



The screenshot shows a web-based login interface. At the top is a green bar with the word "Login" in white. Below this are four input fields: "Username", "Password", a checkbox labeled "Remember this account", and a language selection dropdown menu currently set to "English". A "Login" button is positioned at the bottom of the form.

- ◆ The default IP address is **http://192.168.0.60**
- ◆ The default Username and Password are: **administrator / password**
- ◆ Enter the username and password, then click **Login**.
- ◆ The same user can not be logged in simultaneously.
- ◆ Use the drop-down menu to select the GUI language
  - ◆ English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese and Traditional Chinese

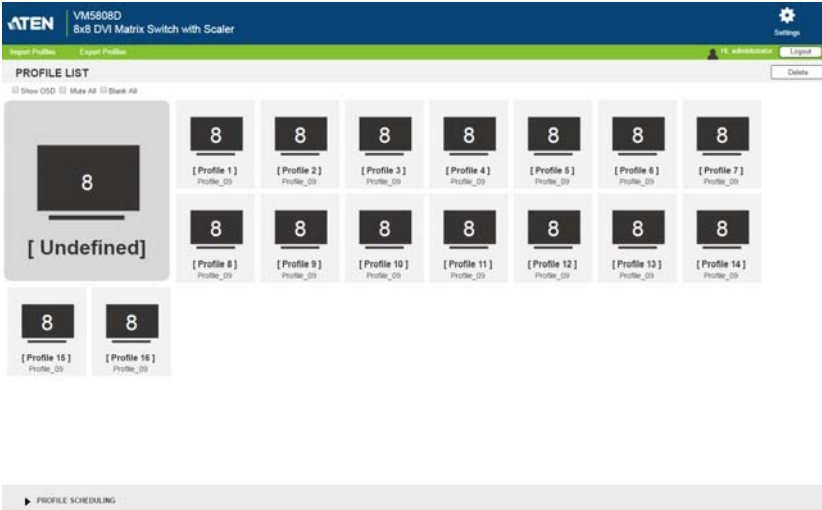
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**Note:** The username supports lower case letters only.

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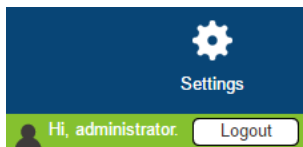
## Main Page

The Main Page opens to the **Profile List**. This is where you configure the input to output connections by creating profiles. The page is divided into three parts: the *Menu Bar*, *Profile List*, and *Profile Scheduling*.



## Menu Bar

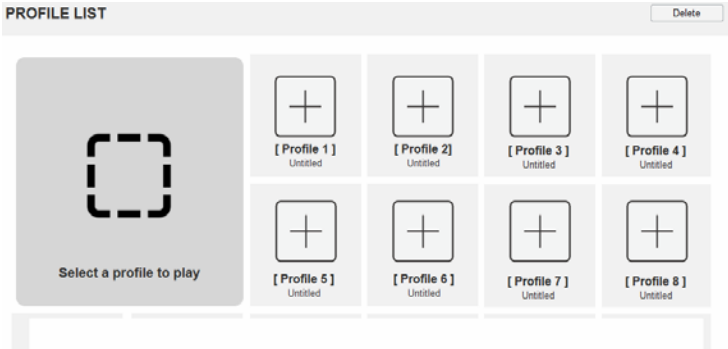
The Menu Bar consists of the *Settings* icon and *Logout* button.



- ◆ Click **Settings** to enter the System Settings (see page 57).
- ◆ Click the **Logout** button to log out of the GUI.

## Profile List

The *Profile List* lets you configure the input to output port connections by creating profiles to use. You can store up to 8 (VM5404D) or 16 (VM5808D) differently configured profiles that can be saved and played by two methods: locally via the unit's front panel pushbuttons and via the web GUI.



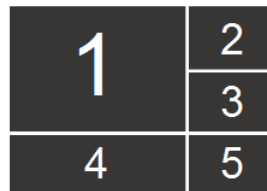
### Adding/Playing a Profile

To configure a connection profile:

1. From the Profile List, click a **[Profile]**.
2. Select the profile type:



Digital Signage



Video Wall

**Digital Signage:** Select this option for video that is displayed independently on separate monitors (page 46).

**Video Wall:** Select this option for monitors that are displayed together - tiled or as a large screen (page 49).

3. Configure the input to output connections for a Digital Signage (**page 46**) or Video Wall (**page 49**) profile.

4. New profiles appear in the *Profile List*, as shown here:

**PROFILE LIST**

Show OSD  Mute All  Blank All

[ Undefined ]

[ Profile 1 ]  
Profile\_09

[ Profile 2 ]  
Profile\_09

[ Profile 3 ]  
Profile\_09

[ Profile 8 ]  
Profile\_09

[ Profile 9 ]  
Profile\_09

[ Profile 10 ]  
Profile\_09

[ Profile 15 ]  
Profile\_09

[ Profile 16 ]  
Profile\_09

5. Select the profile and click **Apply**.

6. The profile appears in the large **Play** window and the connections start:

**PROFILE LIST**

Show OSD  Mute All  Blank All

[ Undefined ]

[ Profile 1 ]  
Profile\_09

[ Profile 2 ]  
Profile\_09

[ Profile 3 ]  
Profile\_09

[ Profile 8 ]  
Profile\_09

[ Profile 9 ]  
Profile\_09

[ Profile 10 ]  
Profile\_09

**Note:** More information about Profile List options are provided on the next page.

## Importing/Exporting a Profile

To export the VM5404D / VM5808D's connection profiles, do the following:

1. Click **Export Profiles**. A configuration file will then begin downloading.

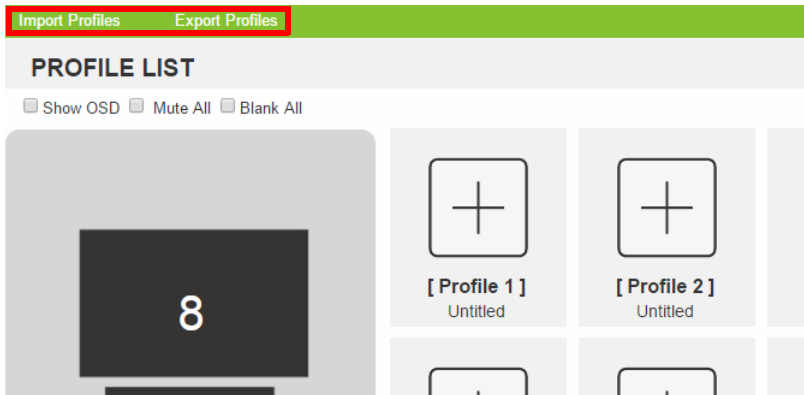
To import connection profiles to the VM5404D / VM5808D, do the following:

1. Click **Import Profiles**.
2. Browse to the configuration file, select it and click **Open**.

---

**Note:** Importing a connection profile database will overwrite the current profiles.

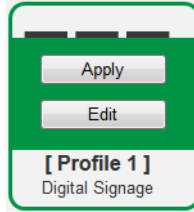
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## Profile List Options

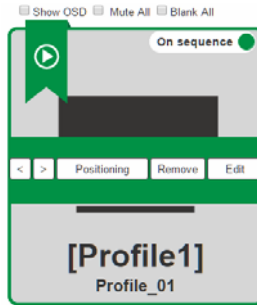
Clicking a *Profile* or the *Play* window opens a pop-up menu with options.

### Profile



Option	Description
Apply	Click <b>Apply</b> to put the profile in the Play window. This allows you to start the profile connections.
Edit	Click <b>Edit</b> to configure the profile's input to output connections.

### Play Window



Option	Description
On Sequence	<b>On Sequence</b> will appear when a profile schedule is playing (see page 44).
<	Click < to go back to the previous profile in the sequence, when Profile Scheduling is in use. Only available with <i>On Sequence</i> .
>	Click > to advance to the next profile in the sequence, when Profile Scheduling is in use. Only available with <i>On Sequence</i> .
Positioning	Click <b>Positioning</b> to open a window that allows you to adjust the image position on each display. For Video Wall profiles, you can also set the Bezel Dimension, which is the frame thickness between each display.
Remove	Removes the profile from the Play window.

---

Option	Description
Edit	Click <b>Edit</b> to configure the profile's input to output connections.





## Other

Option	Description
Show OSD	Check <b>Show OSD</b> to show text updates that appear on the display when configuration or port changes are made.
Mute All	Check <b>Mute All</b> to mute the audio for all ports.
Blank All	Check <b>Blank All</b> to turn off the video to all displays.

## Profile Scheduling

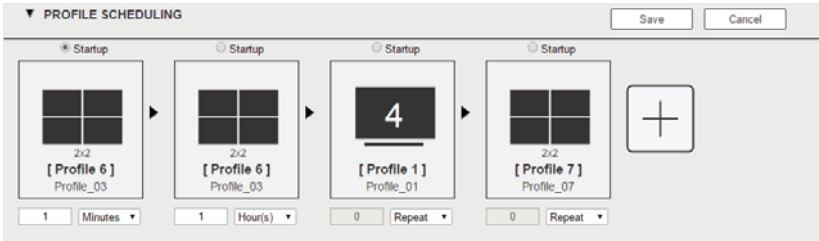
*Profile Scheduling* is located below the Profile List. Scheduling allows you to queue and play connection profiles in sequence for a specific amount of time.



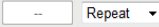


Option	Description
	Click to edit profile schedule.
	Click to play profile schedule.
	Click to stop profile schedule.
	Click to change to next or previous profile when a profile schedule is playing.



After selecting **Edit**, you will be presented with the following options.



Option	Description
	<p>Click to add profiles to the schedule in the order to be played, left to right, then set the amount of time each profile plays.</p>
	<p>Click a profile for a pop-up menu to appear:</p> <ul style="list-style-type: none"> <li>◆ Select <b>Startup</b> to use the profile as the starting point for the schedule.</li> <li>◆ Click <b>Replace</b> to replace the selected profile with another profile.</li> <li>◆ Click <b>Remove</b> to delete the profile from the schedule.</li> <li>◆ Use &lt; &gt; to change the profile's position in the schedule.</li> </ul>
	<p>Use the drop-down menu to select the duration (Hours, Minutes, or Seconds) and enter the amount of time for the profile to play. After the time expires, the schedule switches to the next profile.</p> <p>Use <b>Repeat</b> to stop switching between schedules and stay on the currently selected profile. If <b>Repeat</b> isn't used, the schedule will loop back to the first profile. If <b>Repeat</b> is used, a specific number of hours, minutes and seconds cannot be set and later profiles will not be played.</p>
<p>Save</p>	<p>Click <b>Save</b> to save the schedule as it appears. After saving, the Profile Scheduling window will close.</p> <p>When a Profile Schedule is playing the <i>On Sequence</i> box will appear in the Play window.</p>
<p>Cancel</p>	<p>Click <b>Cancel</b> to discard changes and return to the Profile Schedule page.</p>

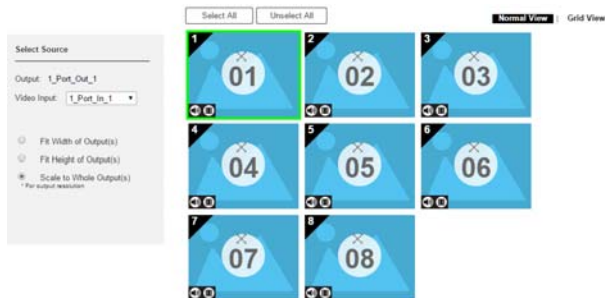
## Connection Profiles

There are two types of profiles: *Digital Signage* and *Video Wall*. **Digital Signage** profiles are for displays where video is viewed on separate monitors. **Video Wall** profiles are for displays that are tiled together, where multiple monitors form one large screen – in various arrangements.



### Digital Signage Profile



Each icon represents an output port and the connected display. The large number is the **Input** port selected for the display. The small number (upper-left corner) is the **Output** port for the display. Click the icons to select options.



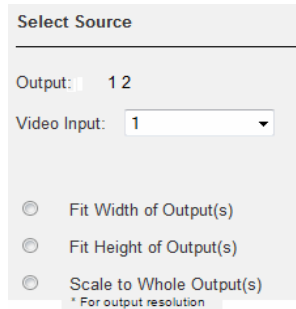
- ◆ Select icons to choose the **Video Input** from the *Select Source* menu.
- ◆ Click the PEN icon or name to edit the profile name.
- ◆ Click **Select All** to select all outputs.
- ◆ Click **Unselect All** to unselect all outputs.
- ◆ Click **Save** to save the profile or **Save as** to save as a different profile number.
- ◆ Click *Grid View* to use an alternate method for configuring connection profiles (see page 48).

## Output Icon



Option	Description
Output Icon	Click an Output icon(s) to highlight it in green and use the <i>Select Source</i> menu to set the video options (see <i>Select Source</i> below). The large number is the <b>Video Input</b> port selected for the display. The small number (upper-left corner) is the <b>Output</b> port of the display.
Mute / Video  	Click the <b>speaker</b> icon to mute the audio on/off. Click the <b>video</b> icon to turn the video off/on.

## Select Source



Option	Description
Select Source	The Select Source menu appears when you click an <b>Output</b> icon.
Output	Displays the Outputs that are selected for the configuration change.
Video Input	Use the drop-down menu to select the <b>Video Input</b> . Click <b>Save</b> or <b>Save as</b> to save the changes.
Radio Button	<ul style="list-style-type: none"> <li>◆ <b>Fit Width of Output(s)</b>: fits the video to the width of the display.</li> <li>◆ <b>Fit Height of Output(s)</b>: fits the video to the height of the display.</li> <li>◆ <b>Scale to Whole Output(s)</b>: fits the video on the entire display.</li> </ul>

## Grid View

The Grid View allows you to select the **Input to Output** connections using a simple grid.

		Output Port							
		o01	o02	o03	o04	o05	o06	o07	o08
Input Port	<input type="radio"/> i01								
	<input type="radio"/> i02								
	<input type="radio"/> i03								
	<input type="radio"/> i04								
	<input type="radio"/> i05								
	<input type="radio"/> i06								
	<input type="radio"/> i07								
	<input type="radio"/> i08								

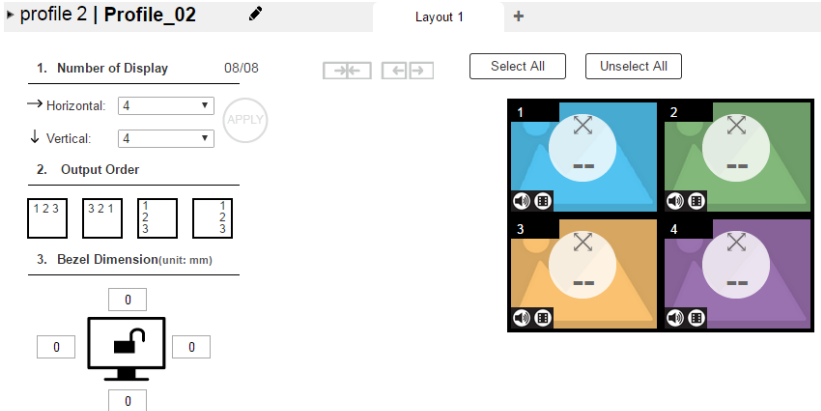
- ◆ Select a box to coordinate *Input Ports* to *Output Ports*. By default, ports will be aligned so that *i01* will correspond to *o01*, etc.
- ◆ **Uncheck** a box to disable the video for that Output Port. The column will no longer contain a yellow box.
- ◆ **Check** an *Input Port* radio button to align all *Output Ports* to that *Input Port*.
- ◆ Click **Test** to play current profile without saving.
- ◆ Click **Save & Apply** to save a profile and begin playing it.
- ◆ Click **Save** to save the profile.
- ◆ Click **Save as** to save the profile as a different profile number.

Click **Cancel** to undo all unsaved changes. **Output Options**

For instructions on the *Output Options*, see *Output Options*, page 55.

## Video Wall Profile

Each blank icon represents an Output port and the connected display. Use the icons to create Independent and Grouped Outputs. **Independent** Outputs will display video on a single monitor. **Grouped** Outputs will display video across multiple monitors as one large screen.



## Video Wall Options

- ◆ Click an icon to choose its **Output** and **Video Input** from the *Display Preference* menu (see page 52).
- ◆ Click multiple icons to Group Outputs (see *Grouping*, page 52) and choose the **Video Input** from the *Display Preference* menu.
- ◆ Use + next to **Display Layout \_1** to create additional layouts under the same profile.
- ◆ Click the PEN icon or name to edit the profile name.
- ◆ Click **Select All** to select all outputs.
- ◆ Click **Unselect All** to unselect all outputs.
- ◆ Click **Test** to play current profile without saving.
- ◆ Click **Save & Apply** to save the profile and put it in the Play window (see page 42).
- ◆ Click **Save** to save the profile.
- ◆ Click **Save as** to save the profile as a different profile number.
- ◆ Click **Cancel** to discard changes and return to the Profile List.

## Number of Displays / Output Order / Bezel Dimensions

1. Number of Display 08/08

---

→ Horizontal:  APPLY

↓ Vertical:

2. Output Order

---

1  
2  
3

3  
2  
1

1  
2  
3

1  
2  
3

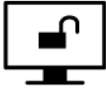
3. Bezel Dimension(unit: mm)

---

0

0



0

0

Option	Description
Number of Displays	Use the <i>Horizontal</i> and <i>Vertical</i> drop-down menu to select the number of displays that make up the video wall (a maximum of 64 are supported). Match this to the physical layout of the displays. Click <b>Apply</b> to set the layout.
Output Order	Automatically assign output ports by selecting one of the following options: Left to right (top to bottom), right to left (top to bottom), top to bottom (left to right) or top to bottom (right to left).
Bezel Dimension	Use the four boxes to increase/decrease the frame size for each active display.
Monitor Lock / Unlock	Click the monitor icon to <b>Lock</b> the (4) bezel settings, so that when one size is changed they all change. Click the monitor icon to <b>Unlock</b> the (4) bezel settings, so that each size can be set independently.



## Null Input



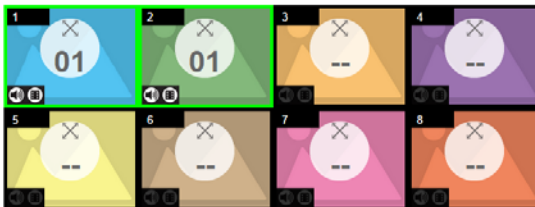
Option	Description
Null Input Icon	<p>Click Null Input icons to highlight icons in green and use the Display Preferences menu to set the video options (see <i>Display Preferences</i>, page 53).</p> <p>Select a <b>single</b> icon to set the <b>Output</b> and <b>Video Input</b> for an independent display (see <i>Independent Output</i>, page 52).</p> <p>Select <b>multiple</b> icons and set the <b>Video Input</b> to group displays as one screen (see <i>Grouping</i>, page 52). <i>You must first set the Output port for each icon.</i></p>
Drop-down Menu	Use the drop-down menu to select the Output port.

## Independent Output



Option	Description
Independent Output	<p>Independent Outputs are displays that have their own <b>Video Input</b> and <b>Output</b> selected. Independent Outputs:</p> <ul style="list-style-type: none"> <li>◆ Display their own video</li> <li>◆ Icons have their own color and Video Input</li> </ul> <p>Select an Independent Output and use the <i>Display Preferences</i> (page 53) menu select the <b>Video Input</b>.</p>
Drop-down Menu	Use the drop-down menu to select the Output port.
Mute / Video	<p>Click the <b>speaker</b> icon to mute the audio on/off.</p> <p>Click the <b>video</b> icon to turn the video off/on.</p>

## Grouping





Option	Description
Grouping	<p>Click multiple icons to Group Outputs (highlighted in green) and click → ← to group the displays into one screen*. Use the <b>Display Preferences</b> menu to select the <b>Video Input</b> for the group - each Output icon in the Group will appear with the same Video Input number and icon color (see <i>Group</i>, page 53).</p> <p><b>Note:</b> Before grouping you must set the Output port for each icon.</p>
Ungroup	Select a group and click ← → to ungroup the displays.



## Group



Option	Description
Group	<p>A <b>Group</b> (of Outputs) shares the same <b>Video Input</b> and displays the video together as one large screen. A Group of Outputs:</p> <ul style="list-style-type: none"> <li>◆ Displays video across multiple monitors to form one screen</li> <li>◆ Icons have the same color and Video Input number.</li> <li>◆ Select a Group and use the <i>Display Preferences</i> menu to select the <b>Video Input</b>.</li> <li>◆ To group outputs see <i>Grouping</i>, page 52.</li> </ul>
Mute / Video  	<p>Click the <b>speaker</b> icon to mute the audio on/off. Click the <b>video</b> icon to turn the video off/on.</p>

## Display Preferences

Display Preference

---

Output:

Video Input:

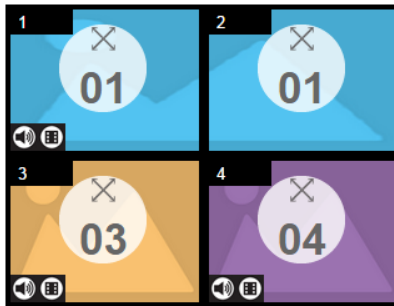
Fit Width of Output(s)  
 Fit Height of Output(s)  
 Scale to Whole Output(s)

Option	Description
Display Preferences	Click Output icons for the Display Preferences menu to appear– to select the <b>Output</b> and/or <b>Video Input</b> port.
Output	<p>Use the drop-down menu to select the <b>Output</b> port (Independent and single Blank icons only).</p> <p>If you select multiple displays the output ports selected will appear here. You can use the output icon's drop-down menu to change the output port for the display.</p>

Option	Description
Video Input	Use the drop-down menu to select the <b>Video Input</b> port.
Radio Button	<ul style="list-style-type: none"> <li>◆ <b>Fit Width of Output(s)</b>: fits the video to the width of the display.</li> <li>◆ <b>Fit Height of Output(s)</b>: fits the video to the height of the display.</li> <li>◆ <b>Scale to Whole Output(s)</b>: fits the video on the entire display.</li> </ul>

### Video Wall Example

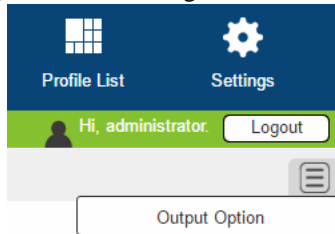
The example below shows a video wall with 4 displays.



- ◆ Each Group and Independent Output has a unique color.
- ◆ This video wall has 1 **Group** and 2 **Independent** displays.
- ◆ The Group will show **Video Input 01** across both displays as one large screen.
- ◆ The Independent displays will show the video from their own **Video Input** – 03 and 04.
- ◆ Add Display Layouts to create separate video walls (see *Video Wall Options*, page 49).

## Output Options

The *Output Options* page is used to configure DVI Video options.



### DVI Video Options

*DVI Video Options* allow you to set Seamless Switch options which determine how a display performs when the input port is changed.

Port	*Seamless Switch	Transition	Period	Scale Resolution
	Apply to All ▾	Apply to All ▾	Apply to All ▾	Apply to All ▾
Port1	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	▾	1920x1080@60HZ ▾
Port2	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	▾	1920x1080@60HZ ▾
Port3	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	▾	1920x1080@60HZ ▾
Port4	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	▾	1920x1080@60HZ ▾
Port5	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	▾	1920x1080@60HZ ▾

- ◆ The *Transition*, *Period* and *Scale Resolution* apply only when Seamless Switching is on.
  - ◆ **Seamless Switch:** Turning *Seamless Switch* on removes the video distortion and delay seen when an input port is switched.
    - ◆ Use the drop-down menu to apply to all ports, or the ON/OFF button to enable/disable Seamless Switching per port.
  - ◆ **Transition:** Allows you to fade the video display when the input port is changed. Use the period option to set the fade speed.
    - ◆ Use the drop-down menu to apply to all ports, or ON/OFF button to enable/disable Transitions per port.
  - ◆ **Period:** Sets the fade speed for the Transition option.
    - ◆ Use the drop-down menu to apply an option (*Slow*, *Normal*, or *Fast*) to all ports, or lower drop-down menus to apply options per port.
  - ◆ **Scale Resolution:** Forces the port to scale the video displayed to the selected resolution. Options are: 720x576@50HZ, 1024x768@60HZ,

1280x720@50HZ, 1280x720@60HZ, 1280x800@60HZ,  
1280x1024@60HZ, 1400x1050@60HZ, 1600x900@60HZ,  
1600x1200@60HZ, 1920x1200@60HZ, 1920x1080@50HZ,  
1920x1080@60HZ.

- ◆ Use the top drop-down menu to apply an option to all ports, or lower drop-down menus to apply options per port.
- ◆ Click **Test** to play current profile without saving.
- ◆ Click **Save** to save the profile or **Save as** to save as a different profile number.
- ◆ Click **Save & Apply** to save the profile and put it in the Play window (see page 42).
- ◆ Click **Cancel** to discard changes and return to the Profile List.

## System Settings

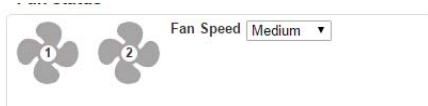
Click the *Settings* link from the Main page for the System Settings to open on the **General** page:



- ◆ The *General* page allows you to edit Baud, Language and Fan settings and view device information.
- ◆ The *User Account* page allows you to add and edit user accounts.
- ◆ The *Port Name* page allows you to name each input and output port.
- ◆ The *Network* page allows configuration of the network settings.
- ◆ The *EDID* page is used to set the EDID modes.
- ◆ The *Maintenance* page is for upgrading the device's firmware.
- ◆ The *HDCP* page is lets users view and set HDCP key settings.
- ◆ The *OSD* page allows users to control port OSD settings.
- ◆ Click **Back to Profile List** to return to the Main page.

## General

The *General* page has three sections: Fan Status, Device Info and Other.



### Fan Status

- ◆ This section displays the VM5404D / VM5808D's two fans' statuses.
- ◆ The VM5404D / VM5808D also includes a drop-down menu which allows for manual selection of fan speed.

**Note:** If the fans have stopped working or are switched off, they will appear as follows.



Device	Model Name	F/W Version
Video Matrix	VM5808D	V2.0.194
Port1	✘	
Port2	✘	
Port3	✘	
Port4	✘	
Port5	✘	
Port6	✘	
Port7	✘	
Port8	✘	

### Device Info

- ◆ This section lists the device's type, Model Name, Firmware Version and port statuses.

Language  Baud Rate

### Other

- ◆ Use the **Language** drop-down menu to select a preferred user interface language.
  - ◆ Options include: English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese and Traditional Chinese.
- ◆ Use the **Baud Rate** drop-down menu to select a serial port setting.
  - ◆ Options include: 9600, 19200, 38400 and 115200.

- ◆ Options include: English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese and Traditional Chinese.
- ◆ Use the **Baud Rate** drop-down menu to select a serial port setting.
  - ◆ Options include: 9600, 19200, 38400 and 115200.

## User Account

The *User Account* page lets you add, edit, or delete users and change the password for accessing the VM5404D / VM5808D's GUI.

**Note:** This is an Administrator only function.

User Name	Level	Description
administrator	Administrator	Default_User
user_1	Basic User	User_Account

- ◆ **Add account** – Click the *Add account* button to add another user to the list. The VM5404D / VM5808D supports up to 32 users at one time (see page 61 for more details).
- ◆ **Edit** – Click the *Edit* button to change user information. This option allows an Administrator to edit individual accounts.

User Name	Level	Description
<a href="#">Edit</a> 111111	Administrator	111111 
<a href="#">Edit</a> 12345	Administrator	
<a href="#">Edit</a> administrator	Administrator	Default_user

- ◆ **Edit** – Rename the user account, set the password, add a description, and set the user's permission level (see page 61 for more details).
- ◆ **Delete** – Removes the user account.



- ◆ The default username and password are: administrator/password.



## Add Account

Use the Add Account / Edit buttons to create a user account, set the user's password, add a description, and set the user's permission level (see *Permission Level*, page 62) when accessing the VM5404D / VM5808D's GUI.

- ◆ Fill in a username or edit an existing one.
- ◆ Enter a password and re-type the password to confirm.

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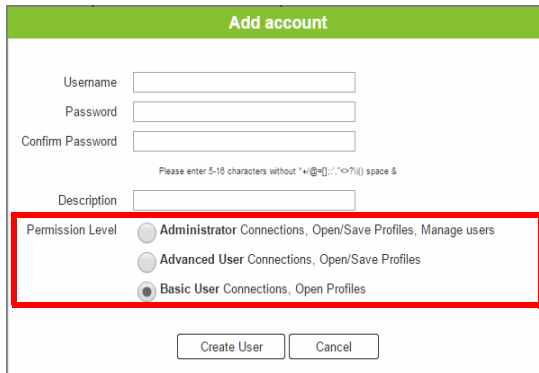
**Note:** Usernames and passwords accept multi-lingual characters, and must be 5–16 alphanumeric characters (excluding ;,=[+=?\|). Passwords are case sensitive. Usernames only support lower case letters.

---

- ◆ Add or edit the description for the user.
- ◆ Select the permission level that you want to grant the user (see *Permission Level*, page 62).
- ◆ Click **Create User** to save the data.
- ◆ Click **Cancel** to discard the changes and exit.
- ◆ If a user is logged into the VM5404D / VM5808D's GUI, their user settings cannot be edited, and the fields in this screen are grayed out.

## Permission Level

At the bottom of the New/Edit User page is the permission section, which is used to set a user's permission level.



The screenshot shows a web form titled "Add account" with a green header. The form contains several input fields: "Username", "Password", "Confirm Password", and "Description". Below these is a "Permission Level" section with three radio button options: "Administrator Connections, Open/Save Profiles, Manage users", "Advanced User Connections, Open/Save Profiles", and "Basic User Connections, Open Profiles". The "Basic User" option is selected. A red rectangular box highlights the "Permission Level" section. At the bottom of the form are two buttons: "Create User" and "Cancel". A small note below the password fields reads: "Please enter 5-10 characters without '+@#[]:;\">

The three available permission levels are as follows:

- ◆ **Administrator** – this level provides full access and control of the VM5404D / VM5808D, in addition to full User Management privileges.
- ◆ **Advanced User** – this level provides full access and control with no User Management privileges.
- ◆ **Basic User** – this level only provides basic functions (connections and open profiles).

## Port Name

The *Port Name* page lets you name the input and output ports for easy identification.

The screenshot shows a configuration page with two main sections: 'Output Port' and 'Input Port'. Each section contains eight rows, labeled Port1 through Port8. Each row has a text input field containing a default name (e.g., 'Port\_Out\_1' for Port1 in the Output Port section). Below these sections are two buttons: 'Save' and 'Cancel'.

Output Port		Input Port	
Port1	01_Port_Out_1	Port1	01_Port_In_1
Port2	02_Port_Out_2	Port2	02_Port_In_2
Port3	03_Port_Out_3	Port3	03_Port_In_3
Port4	04_Port_Out_4	Port4	04_Port_In_4
Port5	05_Port_Out_5	Port5	05_Port_In_5
Port6	06_Port_Out_6	Port6	06_Port_In_6
Port7	07_Port_Out_7	Port7	07_Port_In_7
Port8	08_Port_Out_8	Port8	08_Port_In_8

- ◆ To name an Input/Output port, enter a descriptive name of up to 16 multi-language characters (excluding ;=][+=?\|) in the corresponding field and click **Save**.
- ◆ Language characters available include: English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese and Traditional Chinese.
- ◆ To change an Input/Output port's name, enter another value and click **Save**.
- ◆ Input and Output port names can be the same.
- ◆ Press **Cancel** to go back a level, return to the initial screen, or exit.

## Network

The *Network* page lets you configure the IP settings, website timeout, and Telnet settings for connecting to the VM5404D / VM5808D.

DHCP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Website Timeout	<input type="text" value="N/A"/> ▾
MAC Address	00:10:74:B3:00:06
Telnet	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

**Enable** DHCP to allow the DHCP server to assign an IP address to the VM5404D / VM5808D. Select **Disable** to enter your own static IP address settings for the device.

Click **Cancel** to use the following default values:

- ◆ IP Address – 192.168.0.60
- ◆ Subnet Mask – 255.255.255.0
- ◆ Default Gateway – 192.168.0.1
- ◆ Website Timeout\* – 5 minutes
- ◆ Telnet Enabled

Enter the values, then click **Save**. Changes may take a few seconds and after refreshing the page automatically redirects you to the IP address specified.

---

\* This option controls how long an inactive web connection stays logged into the VM5404D / VM5808D. Use N/A to disable this option. Other options include 5, 10, 30 and 60 minutes. Any changes will take effect immediately.

---

## EDID

The *EDID Settings* page lets users view and select an EDID Mode so that the VM5404D / VM5808D can use the best resolution for its display(s).

EDID Mode	EDID & CEA Description		
<input checked="" type="radio"/> <b>ATEN Default</b> <input type="radio"/> Port 1 Mode <input type="radio"/> Remix <input type="radio"/> Customized  <input type="button" value="Apply"/>  Port EDID Status  Port 1 ATEN Default Port 2 ATEN Default Port 3 ATEN Default Port 4 ATEN Default Port 5 ATEN Default Port 6 ATEN Default Port 7 ATEN Default Port 8 ATEN Default	<b>EDID</b> 1. Vendor/Product Identification 2. EDID Structure/Revision 3. Basic Display/Feature 4. Color Characteristics 5. Established Timings 6. Standard Timings 7. Detail Timing/Display Description 1 8. Detail Timing/Display Description 2 9. Monitor Description 10. Monitor Description	Model ID: 0x0001 Manufacturer ID: ATN Serial Number: 0x0000275D Manufacture Date: 2014 Week 23 Week of Manufacture: 23 Year of Manufacture: 2014	<b>Tips</b>  <b>ATEN Default Mode</b> All ports' EDID are the same as the hardware default EDID.  <b>Port1 Mode</b> All ports' EDID are the same as Port1 EDID.  <b>Remix</b> All ports' EDID use the lowest resolution display.  <b>Customized Mode</b> The EDID Wizard is only enabled if the EDID is in "Customized Mode".

---

**Note:** The EDID Mode can also be selected via the Front Panel pushbuttons – see *EDID Mode*, page 25.

---

Extended Display Identification Data (EDID) is a data format that contains a display's basic information and is used to communicate with the video source/system.

## EDID Mode

In the left panel of the page, users can select a pre-configured EDID Mode using the **EDID Mode** radio buttons.

**EDID Mode**

ATEN Default  
 Port1 Mode  
 Remix  
 Customized

Apply

Port EDID Status

Port 1 ATEN Default  
 Port 2 ATEN Default  
 Port 3 ATEN Default  
 Port 4 ATEN Default  
 Port 5 ATEN Default  
 Port 6 ATEN Default  
 Port 7 ATEN Default  
 Port 8 ATEN Default

**EDID & CEA Description**

**EDID**

- Vendor/Product Identification
- EDID Structure/Revision
- Basic Display/Feature
- Color Characteristics
- Established Timings
- Standard Timings
- Detail Timing/Display Description 1
- Detail Timing/Display Description 2
- Monitor Description
- Monitor Description

Model ID: 0x0001
Manufacturer ID: ATN
Serial Number: 0x0000275B
Manufacture Date: 2014 Week 23
Week of Manufacture: 23
Year of Manufacture: 2014

**Tips**

**ATEN Defa**  
All ports' ED same as the default EDID.

**Port1 Mode**  
All ports' ED same as Po

**Remix**  
All ports' ED lowest resol

**Customize**  
The EDID V enabled if th "Customize

Select the EDID Mode to use and click **Apply**. The VM5404D / VM5808D uses the settings configured for that EDID mode.

Options are:

- ◆ **ATEN Default:** All ports' EDID are the same as the hardware default EDID.
- ◆ **Port 1 Mode:** All ports' EDID are the same as Port1's EDID.
- ◆ **Remix:** All ports' EDID use the best display resolution.
- ◆ **Customized:** See Customized Mode, see page 69.

## Customized Mode

Use the *Customized* Mode to automatically retrieve and save the EDID settings of a connected monitor/display device to an input source port.

- ◆ In the left-most panel of the page, select **Customized** from the *EDID Mode* section and click **Apply**.
- ◆ **Port EDID Status:** Select which input source port you want to store the EDID configuration (01–08).
- ◆ **Retrieve EDID:** Click and a pop-up window appears to retrieve the EDID settings of a stored EDID configuration: *Customized EDID 01-08*, or *ATEN Default*. Select the port to retrieve:

### Caution

Select a port to retrieve.

- ◆ The right panel displays a summary of the acquired EDID settings that you can edit. Click **Save** and select the configuration for the **Current** or **All Ports** for the duration of the session.

### Save

Save changes to the current port or all ports?

## EDID & CEA Description

The right panel of the screen lets users view the configuration of the *EDID* and *CEA* Modes selected:

The screenshot shows the 'EDID & CEA Description' configuration window. On the left, the 'EDID Mode' is set to 'Customized'. Under 'Port EDID Status', 'Port 1 Customized' is selected. The main area is divided into two columns: 'EDID' and 'CEA'. The 'EDID' column lists 10 items, with '1. Vendor/Product Identification' selected. The 'CEA' column lists 3 items: '1. Display Support', '2. Video Data', and '3. Audio Data'. The right panel displays the configuration for the selected EDID item, including Model ID, Manufacturer ID, Serial Number, Manufacture Date, Week of Manufacture, and Year of Manufacture. Buttons for 'Retrieve EDID' and 'Save' are located at the top right.

- ◆ From the left column, click the option that you want to view and/or edit. There are two categories: **EDID** (Extended Display Identification Data) and **CEA** (Consumer Electronics Association).
- ◆ When you highlight the menu items on the left column, the right column displays the current settings for the corresponding *EDID* configuration. Some of the screens are read-only.
- ◆ See *Customized EDID Settings*, page 69 for more information on these two columns.



## Customized EDID Settings

The EDID structure is comprised of 128 bytes in total – each heading shown in the left column corresponds to a specific number of bytes.

The pages for the pre-configured EDID Modes (Port 1, Default and Remix) cannot be edited. The pages for the Customized EDID, which can be edited, are discussed in the preceding sections:

## Established Timings

This page lists video resolutions/timings that display devices can support.

EDID Mode	EDID & CEA Description	Retrieve EDID	Save
<input type="radio"/> ATEN Default <input type="radio"/> Port1 Mode <input type="radio"/> Remix <input checked="" type="radio"/> Customized <input type="button" value="Apply"/> Port EDID Status <input checked="" type="button" value="Port 1 Customized"/> <input type="button" value="Port 2 Customized"/> <input type="button" value="Port 3 Customized"/> <input type="button" value="Port 4 Customized"/>	<b>EDID</b> 1. Vendor/Product Identification 2. EDID Structure/Revision 3. Basic Display/Feature 4. Color Characteristics <b>5. Established Timings</b> 6. Standard Timings 7. Detail Timing/Display Description 1 8. Detail Timing/Display Description 2 9. Monitor Description 10. Monitor Description  <b>CEA</b> 1. Display Support 2. Video Data 3. Audio Data	<input checked="" type="checkbox"/> 720x400 @ 70HZ <input type="checkbox"/> 720x400 @ 88Hz <input checked="" type="checkbox"/> 640x480 @ 60Hz <input checked="" type="checkbox"/> 640x480 @ 67Hz <input checked="" type="checkbox"/> 640x480 @ 72Hz <input checked="" type="checkbox"/> 640x480 @ 75Hz <input checked="" type="checkbox"/> 800x600 @ 56Hz <input checked="" type="checkbox"/> 800x600 @ 60Hz <input checked="" type="checkbox"/> 800x600 @ 72Hz <input checked="" type="checkbox"/> 800x600 @ 75Hz <input type="checkbox"/> 832x624 @ 75Hz (Apple Macintosh II) <input type="checkbox"/> 1024x768 @ 87Hz, interlaced(1024*768) <input checked="" type="checkbox"/> 1024x768 @ 60Hz <input checked="" type="checkbox"/> 1024x768 @ 70Hz <input checked="" type="checkbox"/> 1024x768 @ 75Hz	

- ◆ Select the resolution(s) you want to use for the attached monitor/display device.
- ◆ Click **Clear** to deselect all the items.
- ◆ Click **Select All** to check all the items.
- ◆ Click **Save** to apply the changes.

## Standard Timings

This page shows eight resolutions/timings that display devices can support in addition to those listed in the Established Timings page.

**EDID Mode**

ATEN Default  
 Port1 Mode  
 Remix  
 Customized

Apply

Port EDID Status

Port 1 Customized

Port 2 Customized

Port 3 Customized

Port 4 Customized

**EDID & CEA Description**

Retrieve EDID Save

**EDID**

- Vendor/Product Identification
- EDID Structure/Revision
- Basic Display/Feature
- Color Characteristics
- Established Timings
- Standard Timings
- Detail Timing/Display Description 1
- Detail Timing/Display Description 2
- Monitor Description
- Monitor Description

H Active Pixel	V Active Pixel	R Refresh Rate	Aspect Ratio
H 1600	V 1200	R 60	4:3
H 1280	V 1024	R 60	5:4
H 1400	V 1050	R 60	4:3
H 1440	V 900	R 60	16:10
H 1680	V 1050	R 60	16:10
H 1920	V 1080	R 60	16:9
H 1280	V 800	R 60	16:10
H 1920	V 1200	R 60	16:10

**CEA**

- Display Support
- Video Data
- Audio Data

- ◆ Select the *H Active Pixel* from the drop-down menu.
- ◆ Select the *Aspect Ratio* from the drop-down menu.
- ◆ Click **Save** to apply the changes.

## Detail Timing / Display Description

This screen gives more video resolution options, and provides resolution/timing details.

**EDID Mode**

ATEN Default  
 Port1 Mode  
 Remix  
 Customized

Apply

Port EDID Status

Port 1 Customized

Port 2 Customized

Port 3 Customized

Port 4 Customized

**EDID & CEA Description**

Retrieve EDID Save

**EDID**

- Vendor/Product Identification
- EDID Structure/Revision
- Basic Display/Feature
- Color Characteristics
- Established Timings
- Standard Timings
- Detail Timing/Display Description 1
- Detail Timing/Display Description 2
- Monitor Description
- Monitor Description

**CEA**

- Display Support
- Video Data
- Audio Data

Resolution: [Dropdown]

Pixel Clock(MHz): 25.17

Stereo Display  
 Interlaced: Non-interlaced  
 Stereo Mode: none  
 Sync type: Digital Separate  
 Positive Vsync Polarity: no  
 Positive Hsync Polarity: no

Resolution Detail

	Horizontal	Vertical
Image Size :	mm	mm
Active PXL :	pixel	lines
Blanking Time:	pixel	lines
Sync Offset:	pixel	lines
Sync Width:	pixel	lines
Border:	pixel	lines

In the drop down menu, choose a resolution with values that fit the attached monitor/display device and click **Save**.

## Monitor Description

This screen lets you specify the viewing specifications, namely horizontal and vertical scan ranges and pixel clock rate, of your monitor/display device.

**EDID Mode**

ATEN Default

Port1 Mode

Remix

**Customized**

Port EDID Status

Port 1 Customized

Port 2 Customized

Port 3 Customized

Port 4 Customized

**EDID & CEA Description**

**EDID**

1. Vendor/Product Identification
2. EDID Structure/Revision
3. Basic Display/Feature
4. Color Characteristics
5. Established Timings
6. Standard Timings
7. Detail Timing/Display Description 1
8. Detail Timing/Display Description 2
9. Monitor Description
10. Monitor Description

**CEA**

1. Display Support
2. Video Data
3. Audio Data

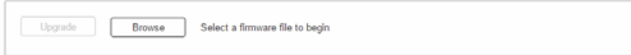
	Minutes	~	Max
Horizontal Scan Range:	15	~	102
Vertical Scan Range:	23	~	121
Pixel Clock Rate: (MHz)	80		(10-2550)

Enter the values that correspond to your device and click **Save** to apply the changes.

## Firmware

The *Maintenance* page lets users upgrade the VM5404D / VM5808D's firmware and back up or restore system settings. This is an Administrator only function.

### Firmware upgrade



Upgrade    Browse    Select a firmware file to begin

### Backup / Restore

\*User accounts cannot be backed up or restored.



Backup

Restore    Browse    Select a restore file to begin

To upgrade the VM5404D / VM5808D's firmware, do the following:

1. Use the **Browse** button to locate the firmware upgrade file. Make sure you have the correct file saved on your PC.
2. Click **Upgrade** to begin the upgrade procedure.

---

**Note:** After updating the firmware, it's recommended that you clear your web browser's cache and then close and reopen the web browser. This will ensure the GUI refreshes and functions properly.

---

To back up the VM5404D / VM5808D's system settings, do the following:

1. Click **Backup**. A configuration file will then begin downloading.

To restore the VM5404D / VM5808D's system settings, do the following:

1. Use the **Browse** button to locate the configuration file. Make sure you have the correct file saved on your PC.
2. Click **Restore** to begin the restoration procedure.

---

**Note:** User accounts cannot be backed up or restored.

---

## HDCP

The *HDCP* page lets users view and set HDCP key settings between input and output ports for digital copy protection and to ensure Seamless Switching between different devices. This is an Administrator and Advanced User only function.

The screenshot shows the 'HDCP Configuration' page. It is divided into three main sections: 'Input', 'Connection', and 'Output'.  
 - The 'Input' section has a dropdown menu set to 'Apply to All' and a list of ports (Port 1 to Port 8) with a dropdown menu for each, all set to 'All Ports HDCP 1.4'.  
 - The 'Connection' section shows a central area with horizontal arrows indicating connections between ports.  
 - The 'Output' section has a dropdown menu set to 'Apply to All' and a list of ports (Port 1 to Port 8) with checkboxes for 'Fix HDCP(Non-HDCP)', all of which are checked.  
 At the bottom of the page are 'Save' and 'Cancel' buttons.

### Input

Here users can select whether input port content is HDCP 1.4 or non-HDCP enabled.

This screenshot is similar to the previous one but highlights the 'Connection' section with a red box. The 'Input' section is now set to 'Apply to All' and the 'Output' section has checkboxes for 'Fix HDCP(Non-HDCP)' which are all checked. The red box in the 'Connection' section highlights the horizontal arrows between ports, indicating the visual display of connection paths.

### Connection

Here users can find a visual display of connection paths between inputs and outputs. When selecting an input, its path is displayed in green.

### Output

Here users can define whether or not HDCP settings are fixed, either by individual port or by applying one setting to all ports. By prearranging and fixing keys, this setting ensures that Seamless Switching is possible even when switching between HDCP and non-HDCP enabled devices.

## OSD

The OSD page lets users view and set OSD settings for all ports.

**OSD**

Port	OSD
	Apply to All ▾
Port1	<input checked="" type="checkbox"/> ON
Port2	<input checked="" type="checkbox"/> ON
Port3	<input checked="" type="checkbox"/> ON
Port4	<input checked="" type="checkbox"/> ON
Port5	<input checked="" type="checkbox"/> ON
Port6	<input checked="" type="checkbox"/> ON
Port7	<input checked="" type="checkbox"/> ON
Port8	<input checked="" type="checkbox"/> ON

- ◆ **OSD:** Sets the default OSD option for the port. When OSD is on, real-time text updates appear on the display for 10 seconds when configuration and port changes are made to its output.
  - ◆ Use the drop-down menu to apply options to all ports, or ON/OFF button to enable/disable the OSD for each port.
- ◆ Click Save to save the settings or Cancel to exit without saving the settings.

---

## Telnet Operation

---

The VM5404D / VM5808D can be operated and configured via a remote terminal session using Telnet.

To log into the VM5404D / VM5808D by means of a Telnet session, do the following:

1. On your computer, open a terminal (command line) session.
2. At the prompt, key in the VM5404D / VM5808D's IP address in the following way:  

```
telnet [IP address]:23
```
3. Press **Enter**. The login screen appears. At the login prompt, provide your Username and Password.

---

**Note:** If a user logs on using a Username that is already in session, the newest login takes effect and the previous session is replaced.

---

### Configuration Menu

Once a Telnet connection to the VM5404D / VM5808D is established, the device's text-based Configuration Menu comes up, with the following items:

#### **1. H – Call up the command list for help**

Command list:

GT – Set gateway address

IM – Set IP subnet mask

IP – Set IP address

LO – Load connections from profile *nn*

PW – Change password

RI– Read what input is connected to *nn* output

RO – Read what output is connected to *nn* input

SB – Set the serial port baud rate

SS – Switch input to specified port

SV – Save the current connections into profile *nn*

TI – Set timeout

VR – Software version information

Ctrl-Q – Quit

## 2. GT – Set gateway address

GT

Old gateway address: 192.168.0.1

New gateway address:

## 3. IM – Set IP subnet mask

IM

Old IP subnet mask: 255.255.255.0

New IP subnet mask:

## 4. IP – Set IP address

IP

Old IP address: 192.168.0.60

New IP address:

## 5. LO – Load connections from profile

LO 01

Load profile 01 OK.

## 6. PW – Change password

PW

Old password: \*\*\*\*\*

New password:

## 7. RI – Read what input is connected to *nn* output

RI 01

Input port 02 04 08 is connected to output port 01



**8. RO – Read what output is connected to *nn* input**

RO 01

Output port 02 is connected to input port 01

**9. SB – Set serial port baud rate**

SB 96

Serial port baud rate is set to 9600

**10. SS – Switch input to specified output**

SS 01, 03

Switch input 01 to output 03

**11. SV – Save the current connections into a profile**

SV 01

Save the current connections into profile 01

**12. TI – Set timeout**

TI 30

Set 30 minute timeout

**13. VR – Software version information**

VR

Software version 1.0.

---

**Note:** For further information about these functions, please reference the equivalent Browser GUI functions earlier in this chapter.

---

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# Chapter 5

## RS-232 Commands

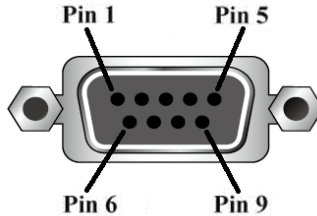
### Serial Control Protocol Commands

---

The VM5404D / VM5808D's built-in bi-directional RS-232 serial interface allows system control through a high-end controller or PC. The RS-232 commands for the VM5404D and VM5808D are the same, with the only difference being that the VM5808D has 4 additional ports.

### RS232 Pin Assignment

Pin	Description	Pin	Description
1	Not connected	6	Not connected
2	RXD	7	Not connected
3	TXD	8	Not connected
4	Not connected	9	Not connected
5	GND		



### Configuring the Serial Port

The controller's serial port should be configured as follows:

Baud Rate	19200
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

## **Verification**

After entering a command, a verification message appears at the end of the command line as follows:

- ◆ **Command OK** - indicates that the command is correct and successfully performed by the switch
- ◆ **Command incorrect** - indicates that the command has the wrong format and/or values.

## Switch Port Command

The Switch Port command allows you to switch ports on the VM5404D / VM5808D.

The formula for the Switch command is as follows:

**Command + Input + Number + Output + Number + Control + [Enter]**

1. For example, to switch input port 02 to output port 05, type:

**sw i02 o05 [Enter]**

2. To switch output port 04 to the next port, type:

**sw o04 + [Enter]**

3. To turn off video output on port 03, type:

**sw o03 off [Enter]**

The following tables show the possible values for the **Switch Port** command:

Command	Description
sw	Switch command

Input Command	Description
i	Input command

Port number	Description
xx	01-08 port

Output Command	Description
o	Output command

Port number	Description
yy	01-08 port
*	All output ports

Control	Description
on	Turn on the display
off	Turn off the display
+	Next Port
-	Previous Port

- Note:** 1. By default, input port 01 is tied to output port 01; input port 02 is tied to output port 02; and so on until port 08 (i.e., o01 i01, o02 i02).
2. Each command string can be separated with a space.
3. The **Port Number** can be skipped, and the default value will be used.
- 

The following table lists the available Switch Port commands:

Command	Input Command	Input Port	Output Command	Output Port	Control	Enter	Description
sw	i	xx	o	yy *		[Enter]	Switch Input Port xx to Output Port yy (xx:01~08; yy:01~08, *)
sw			o	yy *	on off	[Enter]	Turn on Output Port yy Turn off Output Port yy (yy:01~08, *)
sw			o	yy *	+ -	[Enter]	Switch Output port yy to next Output port. Switch Output port yy to previous Output port. (yy:01~08, *)

## **EDID Mode Command**

Extended Display Identification Data (EDID) is a data that contains a display's basic information and is used to communicate with the video source.

The formula for the EDID command is as follows:

**Command + Control + [Enter]**

1. For example, to use the Port1 EDID mode, type:

**edid port1 [enter]**

The following tables show the possible values for the **EDID** command:

Command	Description
edid	EDID Mode command

Control	Description
port1	Implement the EDID of the connected display to Port 1, and pass it to the video source.
remix	Implement the EDID of each connected display according to its connection when the VM5808D is first powered on, or immediately after selecting the Remix option.
default	Implements ATEN's default EDID. (default)
custom	Implements the customized mode as set in the EDID system settings. (See <i>Customized EDID Settings</i> , page 69)

**Note:** Each command string can be separated with a space.

The following table lists the available EDID commands:

Command	Control	Enter	Description
edid	port1	[Enter]	The EDID from Port 1 is passed to the video source.
edid	remix	[Enter]	The VM5404D / VM5808D implements the EDID of each connected display according to its connection when the VM5808D is first powered on, or immediately after selecting the Remix option.
edid	default	[Enter]	ATEN's default EDID is passed to the video source.

<b>Command</b>	<b>Control</b>	<b>Enter</b>	<b>Description</b>
EDID	custom	[Enter]	Implements the customized mode.



## **Mute Command**

Mute allows you to enable or disable an output port(s) audio.

The formula for the Mute command is as follows:

**Command + Output + Number + Control + [Enter]**

- For example, to mute the audio coming from output port 1, type:  
**mute o01 on [enter]**

The following tables show the possible values for the **Mute** command:

Command	Description
mute	Mute command
Output Command	Description
o	Output command
Port number	Description
yy	01-08 port (default is 01)
*	All output ports
Control	Description
on	Mute on; audio from DVI output port is disabled
off	Mute off; audio output enabled (default)

**Note:** 1. Each command string can be separated with a space.

- Skip the output port command to mute or enable the audio of all output ports.

The following table lists the available Mute commands:

Command	Output Command	Output Port	Control	Enter	Description
mute	o	yy *	on	[Enter]	Audio on for output port yy (yy:01~08, *)
mute	o	yy *	off	[Enter]	Audio off for output port yy (default) (yy:01~08, *)

## Scaling Command

The Scaling command allows you to set a resolution for scaling the display connected to an output port.

The formula for the Scaling command is as follows:

**Command + Output + Number 1 + Horizontal Resolution + Number 2 + Vertical Resolution + Number 3 + Frequency + Number 4 + Control + [Enter]**

1. For example, to turn scaling off for output port 02, type:  
**scaling o02 off [Enter]**
2. To set the scaling for output port 04 to 1920x1080@60Hz, type:  
**scaling o04 1080p [Enter]**
3. To set the scaling for all output ports to the connected display's native resolution, type:  
**scaling o\* native [Enter]**

The following tables show the possible values for the **Scaling** command:

Command	Description
scaling	Scaling command

Output	Description
o	Output command

Port Number	Description
yy	01-08 port
*	All output ports

Horizontal Resolution	Description
hor	Horizontal resolution command for scaling

Resolution Number	Description
hhh	Horizontal resolution

Vertical Resolution	Description
ver	Vertical resolution command for scaling

Resolution Number	Description
vvv	Vertical resolution

Frequency	Description
freq	Frequency command for scaling

Frequency Number	Description
fff	Frequency resolution

Control	Description
off	Turn off the scaling function (by pass mode)
native	Map display's native resolution for scaling (default)

- Note:** 1. Each command string can be separated with a space.
2. The **Port Number** command string can be skipped, and the default value will be used.

The following table lists the available Scaling commands:

Command	Output	Port Number	Horizontal Resolution	Number	Vertical Resolution	Number	Frequency	Number	Control	Enter	Description
scaling	o	yy*							off	[Enter]	Turn off scaling for port yy (by pass mode) yy: 01 ~ 08 or *
scaling	o	yy*							native	[Enter]	Enable display's native resolution for scaling on output port yy (default) yy: 01 ~ 08 or *

Command	Output	Port Number	Horizontal Resolution	Number	Vertical Resolution	Number	Frequency	Number	Control	Enter	Description
scaling	o	yy*	hor	1920	ver	1080	freq	60		[Enter]	Scale output port yy to 1920x1080@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1920	ver	1080	freq	50		[Enter]	Scale output port yy to 1920x1080@50Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1280	ver	720	freq	60		[Enter]	Scale output port yy to 1280x720@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1280	ver	720	freq	50		[Enter]	Scale output port yy to 1280x720@50Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1920	ver	1200	freq	60		[Enter]	Scale output port yy to 1920x1200@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1600	ver	1200	freq	60		[Enter]	Scale output port yy to 1600x1200@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1400	ver	1050	freq	60		[Enter]	Scale output port yy to 1400x1050@60Hz yy: 01 ~ 08 or *

Command	Output	Port Number	Horizontal Resolution	Number	Vertical Resolution	Number	Frequency	Number	Control	Enter	Description
scaling	o	yy*	hor	1280	ver	1024	freq	60		[Enter]	Scale output port yy to 1280x1024@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1024	ver	768	freq	60		[Enter]	Scale output port yy to 1024x768@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1600	ver	900	freq	60		[Enter]	Scale output port yy to 1600x900@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	1280	ver	800	freq	60		[Enter]	Scale output port yy to 1280x800@60Hz yy: 01 ~ 08 or *
scaling	o	yy*	hor	720	ver	576	freq	50		[Enter]	Scale output port yy to 720x576@50Hz yy: 01 ~ 08 or *

## **Fan Speed Command**

The Fan Speed command allows you to set the VM5808D's internal fan speed.

---

**Note:** This feature is not supported by the VM5404D.

---

To set the fan speed, use the following command:

**Command + Control + [Enter]**

1. For example, to set the fan to low speed, type:

**fan low [Enter]**

The following tables show the possible values for the **Fan Speed** command:

<b>Command</b>	<b>Description</b>
fan	Fan Speed Command

<b>Control</b>	<b>Description</b>
low	Set internal fan to low speed (default)
mid	Set internal fan to normal speed
high	Set internal fan to high speed

---

**Note:** Each command string can be separated with a space.

---

The following table lists the available Fan Speed commands:

<b>Command</b>	<b>Control</b>	<b>Enter</b>	<b>Description</b>
fan	low	[Enter]	Sets fan speed to low
fan	mid	[Enter]	Sets fan speed to normal
fan	high	[Enter]	Sets fan speed to high

## **Echo Command**

The Echo function updates the RS232 controller when operations are made via the front panel pushbuttons, web browser, or telnet. The changes echo back to the RS232 controller to keep the settings in sync with the device.

The formula for the Echo command is as follows:

**Command + Control + [Enter]**

1. For example, to enable the echo feature, type:

**echo on [Enter]**

The following tables show the possible values for the **Echo** command:

Command	Description
echo	Echo command

Control	Description
on	Turns Echo function on
off	Turns Echo function off (default)

---

**Note:** Each command string can be separated with a space.

---

The following table lists the available Echo commands:

Command	Control	Enter	Description
echo	on	[Enter]	Turn on Echo function
echo	off	[Enter]	Turn off Echo function

## **Black Screen Command**

The Black Screen command turns a display screen black when no source signal is detected. This prevents the display from showing the default blue or other color used when no source signal is detected.

The formula for the Black Screen command is as follows:

**Command + Control + [Enter]**

1. For example, to enable the Black Screen function, type:

**blackscreen on [Enter]**

The following tables show the possible values for the **Black Screen** command:

<b>Command</b>	<b>Description</b>
blackscreen	Black Screen command

<b>Control</b>	<b>Description</b>
on	Turns Black Screen function on (default)
off	Turns Black Screen function off

---

**Note:** Each command string can be separated with a space.

---

The following table lists the available Black Screen commands:

<b>Command</b>	<b>Control</b>	<b>Enter</b>	<b>Description</b>
blackscreen	on	[Enter]	Turn on Black Screen function
blackscreen	off	[Enter]	Turn off Black Screen function



## **Read Command**

The Read command allows you to view information about the device.

The formula for the Read command is as follows:

**Command + [Enter]**

1. To view information, type:

**read [Enter]**

The following table shows the possible values for the **Read** command:

Command	Description
read	Read command

The following table lists the available Read commands:

Command	Enter	Description
read	[Enter]	Reads information from the device

The following is an example of the information the system will provide when the Read command is used:

read Command OK

o01 i03 video on audio on 1920x1080@60(1080p)

o02 i04 video off audio off bypass

o03 i02 video on audio off 1600x1200@60

Which means:

1. o01 i03 video on audio on 1920x1080@60(1080p)

Output 01 is connected to Input 03 with video and audio on; the resolution is scaled to 1080p at 60Hz

2. o02 i04 video off audio off bypass

Output 01 is connected to Input 03 with video audio off; scaling is bypassed (turned off)

3. o03 i02 video on audio off 1600x1200@60

Output 03 is connected to Input 02 with video on and audio off; the resolution is scaled to 1600x1200 at 60Hz

## **Reset Command**

The Reset command allows you to reset the VM5404D / VM5808D to the default factory settings.

The formula for the Reset command is as follows:

**Command + [Enter]**

The following tables show the possible values for the **Reset** command:

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<b>Command</b>	<b>Description</b>
reset	Reset command

---

**Note:** Each command string can be separated with a space.

---

The following table lists the available Reset commands:

<b>Command</b>	<b>Enter</b>	<b>Description</b>
reset	[Enter]	Resets the device settings

## Baud Rate Command

The Baud Rate command allows you to set the RS-232 data rate for the VM5404D / VM5808D to use. Options are 9600, 19200 (default) 38400 and 115200.

The formula for the Baud Rate command is as follows:

**Command + Control + [Enter]**

1. For example, to set 38400 as the baud rate, type:

**baud 38400 [Enter]**

The following tables show the possible values for the **Baud Rate** command:

Command	Description
baud	Sets the RS-232 baud rate

Control	Description
9600	Use 9600 baud rate
19200	Use 19200 baud rate (default)
38400	Use 38400 baud rate
115200	Use 115200 baud rate

**Note:** Each command string can be separated with a space.

The following table lists the available Baud Rate commands:

Command	Control	Enter	Description
baud	9600 / 19200 / 38400 / 115200	[Enter]	Sets the RS-232 baud rate

## Save/Load Profile Command

The Save/Load Profile command allows you to save and load connection profiles. Saving profiles will save the connections currently in use.

The formula for the Save/Load Profile command is as follows:

**Command + Profile + Number + Control + [Enter]**

1. For example, to save the current connection configuration to profile 02, type:

**profile f 02 save [Enter]**

The following tables show the possible values for the **Save/Load Profile** commands:

Command	Description
profile	Save / Load profile
Profile	Description
f	Profile command
Profile Number	Description
yy	VM5404D: 01-08 (default is 01)
	VM5808D: 01-16 (default is 01)
Control	Description
save	Save the connection configuration
load	Load a saved profile

**Note:** Each command string can be separated with a space.

The following table lists the available Save/Load Profile commands:

Command	Profile	Profile Number	Control	Enter	Description
profile	f	yy *	save	[Enter]	Save the connections as profile yy. VM5404D: (yy:01~08, *)
					VM5808D: (yy:01~16, *)
profile	f	yy *	load	[Enter]	Load profile yy. VM5404D: (yy:01~08, *)
					VM5808D: (yy:01~16, *)

## OSD Command

To enable or disable the On-Screen Display (OSD) for displays, use the following command:

**Command + Output + Number + Control + [Enter]**

1. For example, to enable the OSD for output 07, type:

**osd o07 on [Enter]**

2. For example, to disable the OSD for all outputs, type:

**osd o\* off [Enter]**

The following tables show the possible values for the **OSD** command:

Command	Description
osd	OSD command
Output	Description
o	Output port command
Number	Description
yy	Output port 01~16 port (default is 01)
*	All output ports
Control	Description
on	Enable OSD function
off	Disable OSD function (default)

**Note:** Each command string can be separated with a space.

The following table lists the available OSD commands:

Command	Output Command	Output Port	Control	Enter	Description
osd	o	yy *	on	[Enter]	OSD on for output yy yy:01~16, *
osd	o	yy *	off	[Enter]	OSD off for output yy (default) yy:01~16, *

## **Alert Command**

To trigger a warning when issues arise for a specific input port, use the following command:

**Command + Input + Number + Control + [Enter]**

1. For example, to enable the basic Alert function for input port 1, type:

**alert i01 m1 [enter]**

The following tables show the possible values for the **Alert** command:

Command	Description
alert	Alert command

Input	Description
i	Input command

Port number	Description
yy	VM5404D: 01-04
	VM5808D: 01-08

Control	Description
off	Disable Alert (default)
m1	Show basic Alert (flashing border)
m2	Show detailed Alert (flashing border and port information)

---

**Note:** Each command string can be separated with a space.

---

The following table lists the available Alert commands:

Command	Input Command	Input Port	Control	Enter	Description
alert	i	yy	off	[Enter]	Alert off for input port yy VM5404D (yy:01~04) VM5808D (yy:01~08)
alert	i	yy	m1	[Enter]	Basic Alert on for input port yy VM5404D (yy:01~04) VM5808D (yy:01~08)
alert	i	yy	m2	[Enter]	Detailed Alert on for input port yy VM5404D (yy:01~04) VM5808D (yy:01~08)

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## Safety Instructions

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### General

- ◆ Read all of these instructions. Save them for future reference.
- ◆ Follow all warnings and instructions marked on the device.
- ◆ This product is for indoor use only.
- ◆ Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- ◆ Do not use the device near water.
- ◆ Do not place the device near, or over, radiators or heat registers.
- ◆ The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- ◆ The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- ◆ Never spill liquid of any kind on the device.
- ◆ Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- ◆ The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- ◆ The device is designed for IT power distribution systems with 230V phase-to-phase voltage.
- ◆ To prevent damage to your installation it is important that all devices are properly grounded.
- ◆ The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes.
- ◆ Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.

- ◆ If an extension cord is used with this device make sure that the total of the ampere ratings of all products used on this cord does not exceed the extension cord ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
- ◆ To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or un-interruptible power supply (UPS).
- ◆ Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- ◆ Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- ◆ Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- ◆ If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
  - ◆ The power cord or plug has become damaged or frayed.
  - ◆ Liquid has been spilled into the device.
  - ◆ The device has been exposed to rain or water.
  - ◆ The device has been dropped, or the cabinet has been damaged.
  - ◆ The device exhibits a distinct change in performance, indicating a need for service.
  - ◆ The device does not operate normally when the operating instructions are followed.
- ◆ Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.
- ◆ Avoid circuit overloads. Before connecting equipment to a circuit, know the power supply's limit and never exceed it. Always review the electrical specifications of a circuit to ensure that you are not creating a dangerous condition or that one does not already exist. Circuit overloads can cause a fire and destroy equipment.

## **Rack Mounting**

- ◆ Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- ◆ Always load the rack from the bottom up, and load the heaviest item in the rack first.
- ◆ Make sure that the rack is level and stable before extending a device from the rack.
- ◆ Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- ◆ Make sure that all equipment used on the rack – including power strips and other electrical connectors – is properly grounded.
- ◆ Ensure that proper airflow is provided to devices in the rack.
- ◆ Ensure that the operating ambient temperature of the rack environment does not exceed the maximum ambient temperature specified for the equipment by the manufacturer.
- ◆ Do not step on or stand on any device when servicing other devices in a rack.

## Technical Support

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### International

- ◆ For online technical support – including troubleshooting, documentation, and software updates: <http://eservice.aten.com>
- ◆ For telephone support, see *Telephone Support*, page iv:

### North America

Email Support		<a href="mailto:support@aten-usa.com">support@aten-usa.com</a>
Online Technical Support	Troubleshooting Documentation Software Updates	<a href="http://www.aten-usa.com/support">http://www.aten-usa.com/support</a>
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- ◆ Product model number, serial number, and date of purchase.
- ◆ Your computer configuration, including operating system, revision level, expansion cards, and software.
- ◆ Any error messages displayed at the time the error occurred.
- ◆ The sequence of operations that led up to the error.
- ◆ Any other information you feel may be of help.

# Specifications

Function		VM5404D	VM5808D
Video Input	Interface	4 x DVI-D Female (White)	8 x DVI-D Female (White)
	Impedance	100 $\Omega$	
	Max. Distance	1.8 m	
Video Output	Interface	4 x DVI-D Female (White)	8 x DVI-D Female (White)
	Impedance	100 $\Omega$	
Video	Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
	Max. Pixel Clock	225 MHz	
	Compliance	HDCP 1.4 Compatible	
	Max. Resolution	Up to 1920 x 1200	
	Max. Distance	Up to 5 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)	
	Ethernet	1 x RJ-45 Female (Black)	
EDID Settings		EDID Mode: Default / Port 1 / Remix / Customized	
Power	Connector	1 x 3-Prong AC Socket	
	I/P Rating	100-240VAC; 50-60Hz; 1.0A	
	Consumption	120VAC, 34.1W; 230VAC, 34.4W	120VAC, 56.4W; 230VAC, 55.9W
Environment	Operating Temp.	0–50°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	3.50 kg	4.25 kg
	Dimensions (L x W x H)	43.24 x 25.98 x 4.4 cm	

## **Limited Warranty**

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IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquiries, please contact your direct vendor.