2/4/8-Port VGA Splitter with Audio VS0102 / VS0104 / VS0108

User Manual



www.aten.com

FCC Information

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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected;
- Consult the dealer/an experienced radio/television technician for help.

RoHS

This product is RoHS compliant.

SJ/T 11364-2006

The following contains information that relates to China.

如此友拍	有毒有害物质或元素							
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚		
电器部件	•	0	0	0	0	0		
机构部件	0	0	0	0	0	0		

- 〇: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。
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User Information

Online Registration

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

International	http://support.aten.com
North America	http://www.aten-usa.com/product_registration

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-10-5255-0110
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
United Kingdom	44-8-4481-58923

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

The VS0102 / VS0104 / VS0108 package consists of:

- 1 VS0102 / VS0104 / VS0108 2/4/8-Port VGA Splitter with Audio
- 1 Power Adapter
- 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

* Features may have been added to the VS0102 / VS0104 / VS0108 since this manual was published. Please visit our website to download the most up-to-date version.

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About this Manual

This User Manual is provided to help you get the most from your 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 VS0102 / VS0104 / VS0108 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 installation. The necessary steps to begin operation are provided.

Chapter 3, Operation, explains the fundamental concepts involved in operating the VS0102 / VS0104 / VS0108.

An Appendix, provides specifications and other technical information regarding the VS0102 / VS0104 / VS0108.

Conventions

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.
\rightarrow	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, $Start \rightarrow Run$ means to open the <i>Start</i> menu, and then select <i>Run</i> .
lack	Indicates critical information.

Product Information

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	http://www.aten.com
North America	http://www.aten-usa.com

Chapter 1 Introduction

Overview

The ATEN VS0102 / VS0104 / VS0108 2/4/8-Port VGA Splitter with Audio are VGA splitters that allow a single VGA video & audio signal to be distributed to two, four, or eight output displays with independent stereo control. The VS0102 and VS0104 support up to 450 MHz video bandwidth, and the VS0108 supports up to 400 MHz video bandwidth , which provides optimum video quality, supported by resolutions up to 1920x1440.

Furthermore, for complete systems integration, serial control is standard through the VS0102 / VS0104 / VS0108's built-in RS-232 ports, which allow the splitter to be controlled through a high-end controller or PC.

The VS0102 / VS0104 / VS0108 is perfect for conference rooms, training facility & multi-display broadcasting, with cascadable support up to three levels allowing a single video signal to be sent across up to 8/64/512 video displays while sustaining the highest quality possible.

Features

- One video input to 2/4/8 video outputs
- Superior video quality up to 1920 x 1440 @ 60Hz
- Supports up to 450 MHz bandwidth (VS0102/VS0104), and 400 MHz bandwidth (VS0108) for high performance video
- Long distance transmission up to 65m
- Supports VGA, SVGA, UXGA, WUXGA, and multisync
- EDID Expert -- selects the optimum EDID settings for smooth power-up and highest quality display
- Expandable provides up to 8/64/512 video displays
- RS-232 chain control use RS-232 commands to control cascaded devices via VGA cable*
- Supports stereo audio
- Plug-and-play no software installation required

Note: The VS0102 / VS0104 / VS0108 AP and GUI operational instructions can be downloaded from the ATEN website (www.aten.com).

Requirements

Source Device

The following equipment must be installed on the source device or computer that acts as a source of VGA/Audio content:

- VGA video card with HDB-15 connector
- Audio source with stereo output

Display Device

- A VGA, SVGA, UXGA, WUXGA or multisync monitor or multimedia projector with an HDB-15 connector
- Stereo and/or balanced audio speakers

Cables

- 1 VGA/Audio cable for the source device you will be connecting
- 1 VGA/Audio cable for each display device you will be connecting

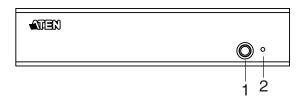
Operating Systems

Supported operating systems are shown in the table, below:

	os	Version
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		Note: 6.2 and higher

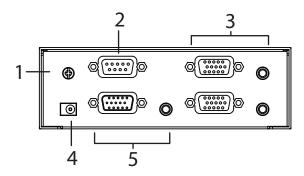
Components

VS0102 / VS0104 / VS0108 Front View

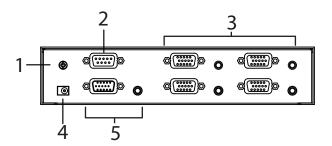


No	Component	Function
1	Power Pushbutton	Push this button to turn on / off the switch.
2	Power LED	 The LED (green) lights up when the switch is powered on. The LED (orange) lights up to indicate that the switch is in standby mode.

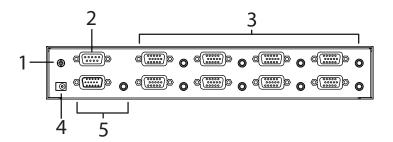
VS0102 Rear View



VS0104 Rear View



VS0108 Rear View



No	Component	Function
1	Grounding Terminal	The grounding wire used to ground the unit attaches here.
2	RS-232 Serial Port	This is the serial remote port for input source selection and high-end system control.
3	Video / Audio Output	Each video output section is comprised of a VGA connector and a mini stereo audio jack. The cables that connect to the video and audio ports on the display devices plug in here.
4	Power Jack	The power adapter cable plugs in here.
5	Video / Audio Input	The cables that connect to the video and audio output ports on the computer/source device plug in here.

Chapter 2 Hardware Setup

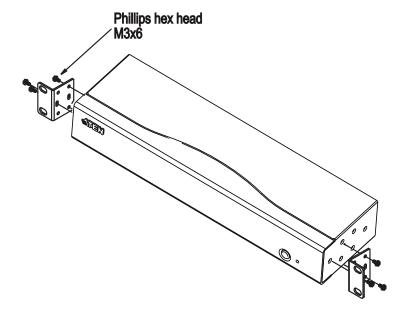


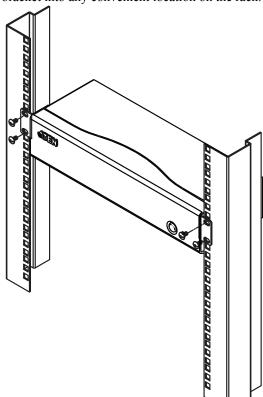
- 1. Important safety information regarding the placement of this device is provided on page 20. Please review it before proceeding.
- Make sure that the power to all devices connected to the installation are turned off.
- 3. Make sure that all devices you will be installing are properly grounded.

Rack Mounting

For convenience and flexibility, the VS0102 / VS0104 / VS0108 can be mounted on system racks. To rack mount a unit do the following:

1. Using the screws provided in the Rack Mount Kit, screw the mounting bracket into the side of the unit as show in the diagram below:





2. Screw the bracket into any convenient location on the rack.

Note: These screws are not provided. We recommend that you use M5 x 12 Phillips Type I cross, recessed type screws.

Grounding

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

- 1. Use a grounding wire to ground the VS0102 / VS0104 / VS0108 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 the computer(s)/device(s) that the VS0102 / VS0104 / VS0108 connects to are properly grounded.

Installation

Single Stage

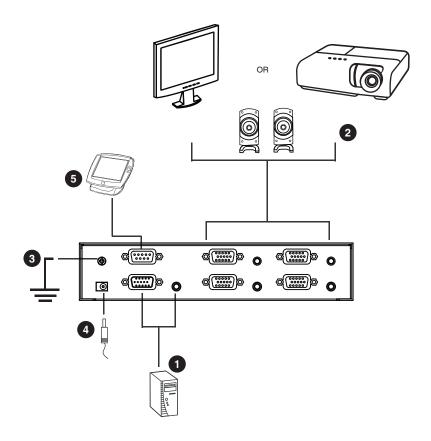
Installation of the VS0102 / VS0104 / VS0108 is simply a matter of plugging in the appropriate cables.

To install the splitter, refer to the installation diagram on page 10 as you perform the following steps:

- Use a VGA/Audio cables to connect the VGA/Audio output ports on the source device to the VGA/Audio input ports on the VS0102 / VS0104 / VS0108.
- Use VGA/Audio cables to connect the VGA/Audio inputs of the video displays and speaker devices to the VGA/Audio output ports on the rear of the VS0102 / VS0104 / VS0108.
- 3. 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.
- Plug the provided power adapter into an appropriate AC power source; plug the power adapter cable into the power jack on the VS0102 / VS0104 / VS0108.
- 5. (Optional) To control the VS0102 / VS0104 / VS0108 system through the RS-232 port, connect the hardware/software controller here.

The installation is complete, you may power on the display and source devices.

Note: The VS0102 / VS0104 / VS0108 installations are the same, with the only difference being that the VS0102 has two video display ports, the VS0104 has four video display ports, and the VS0108 has eight video display ports.



Installing the RS-232 Controller

In order to use the RS-232 serial interface to attach a high-end controller (such as a PC) to the splitter, use a RS-232 serial cable. The end connecting to the $VS0102 \,/\, VS0104 \,/\, VS0108$ should have a 9-pin male connector. Refer to step 5 on the diagram above.

Note: To configure the controller serial port, see page 11.

Cascade

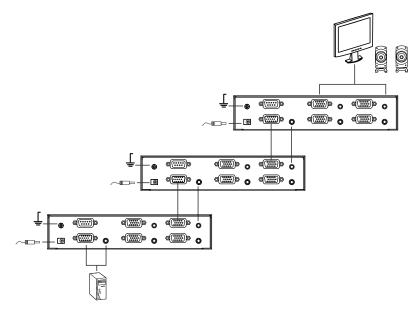
To provide video/audio displays for more monitors, additional video splitters can be cascaded. Use a high density HDB-15 male/female video/audio extender cables to connect any available video/audio output port on the higher level video splitter to the video/audio input port of the lower level Video Splitter.

Recommended distances between devices in all cascade levels for transmitting a high resolution signal, are as follows:

Source to VS0102 / VS0104 / VS0108: 1.8 m

VS0102 / VS0104 / VS0108 to VS0102 / VS0104 / VS0108: 15 m

VS0102 / VS0104 / VS0108 to monitor: 65 m



Note: In the diagram above any output port not connecting the cascade is available for extended display/audio connections.

Chapter 3 Operation

Overview

The VS0102 / VS0104 / VS0108 2/4/8-Port VGA Splitter with Audio offers simple plug and play operation. To use the splitter, simply connect your hardware as instructed in Chapter 2, power on all devices in your setup, and the splitter expands your source signal across two (VS0102), four (VS0104), or eight (VS0108) video displays.

The remainder of this chapter describes the RS-232 serial interface, and how to power off/restart your device.

RS-232 Serial Interface

The VS0102 / VS0104 / VS0108's built-in bi-directional RS-232 serial interface allows system control through a high-end controller, PC, and/or home automation / home theater software package.

Advanced settings are controlled through the RS-232 serial interface. This section describes the RS-232 serial port device configuration and the port commands for Switch Port; EDID Mode Selection, Mute, Firmware Update, Read, and Reset.

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

Switch Port Commands

The formula for Switch Port commands are as follows:

1. Switch Command + Output Command + Port Number + Control [Enter]

For example, to turn on output port 02, type the following:

or

For example, to turn off output port 01, input the following:

sw o01 off [Enter]

The following tables show the possible values and formats for the **Output Command**, **Port Number** and **Control**:

Command	Description							
sw	Switch command							
Output Command	Description							
0	Output command							
	5							
Port number	Description							
уу	01-08 port (default is 01)							
*	All output ports							
Control	Description							
on	Turn on							
off	Turn off							

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

2. If the **Port Number** string is skipped, the default value is used.

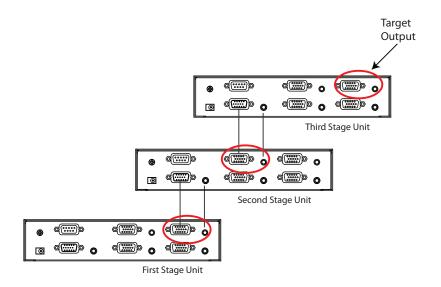
The following table shows the available switch port command list:

Command	Output	Port	Control	Enter	Description
sw	0	уу	on	[Enter]	Turn on display
	0	уу	off	[Enter]	Turn off display
	0	*	on	[Enter]	Turn on all displays
	0	*	off	[Enter]	Turn off all displays

Command for Cascaded Splitters

Serial port commands for cascaded splitters require identifying the chain of ports to which the target device is connected. The formula for Switch Port commands are as follows:

Switch Command + Output Command + Port Number (at first stage) + Port Number (at second stage) + Port Number (at third stage) + Control [Enter]



For the example above, the command for switching off the *Target Output* **Port 4** of the splitter connected to **Port 3** at the second stage of the cascade, which, in turn, is connected to output **Port 4** at the first stage unit, is as follows:

sw o04-03-04 off [Enter]

This cascade command format is applied to Mute Commands, page 15, Read Commands, page 17, and Reset Commands, page 18. However, this is not applicable to EDID commands, which apply only to the first stage unit splitter, as well as the Firmware commands.

EDID Mode Selection Commands

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. You can set up which EDID mode the VS0102 / VS0104 / VS0108 uses with the commands that follow.

The formula for the EDID Mode Selection commands are as follows:

EDID Command + Control [Enter]

For example, to switch the EDID setting to auto, type the following:

edid auto [Enter]

The following tables show the possible values and formats for the **Control** command:

Command	Description
edid	Enable EDID selection
Control	Description
port1	Implement the EDID of the connected display to Port 1, and pass it to the video source
auto	Implements the true EDID remix of all connected displays. The VS0102 / VS0104 / VS0108 uses the best resolution for all displays.
default	Implements ATEN's default EDID

The following table shows the available EDID mode selection command list:

Command	Control	Enter	Description
edid	port1	[Enter]	The EDID from Port 1 is passed to the video source
edid	auto	[Enter]	The VS0102 / VS0104 / VS0108 implements the true EDID remix of all connected displays and uses the best resolution for all displays.
edid	default	[Enter]	ATEN's default EDID is passed to the video source

Mute Commands

To enable or disable audio coming from the output port, use the following commands.

The formula for the Mute commands are as follows:

Mute Command + Output Command + Port Number + Control [Enter]

For example, to turn mute on for port 04, type the following:

mute o04 on [Enter]

The following tables show the possible values and formats for the **Output Command**, **Port Number**, and **Control** command:

Command	Description
mute	Enable / Disable audio of the output port
Output Command	Description
0	Output command
Port Number	Description
уу	01-08 port (default is 01)
*	All ports
Control	Description
on	Mute on; audio from output port is disabled
off	Mute off; audio output enabled (default)

The following table shows the available mute command list:

Command	Output	Port	Control	Enter	Description
mute	0	уу	on	[Enter]	Mute on (no audio)
mute	0	уу	off	[Enter]	Mute off (audio on)
mute	0	*	on	[Enter]	Mute on (no audio) all ports
mute	0	*	off	[Enter]	Mute off (audio on) all ports

Firmware Update Command

The Firmware Update feature readies the $VS0102 \ / \ VS0104 \ / \ VS0108$ for a firmware upgrade.

The formula for the Firmware Update command is as follows:

Command [Enter]

For example, to start the firmware upgrade process, input the following:

upgrade [Enter]

The following tables show the possible values and formats for the command:

Command	Description
upgrade	Starts the upgrade process for the device

The following table shows the available command list:

Command	Enter	Description
upgrade	[Enter]	Starts the upgrade process

Read Command

The Read command allows you to read information about the VS0102 / VS0104 / VS0108.

The formula for the Read commands are as follows:

Read Command + Output Command + Port Number + Control Command [Enter]

For example, to display the firmware version for the device, input the following:

read version [Enter]

For example, to display the video on/off status for port 03, input the following: read o03 video [Enter]

The following tables show the possible values and formats for the **Output Command**, **Port Number**, and **Control** command:

Command	Description
read	Read information from device
Output Command	Description
0	Output command
Port Number	Description
уу	01-08 port (default is 01)
*	All ports
Control	Description
version	Read firmware version
edid	Read EDID information
	(For port 01 only)
video	Read video on/off status
audio	Read audio on/off status

Note: Each command can be separated with a space.

The following table shows the available read command list:

Command	Output	Port	Control	Enter	Description
read			version	[Enter]	Read device firmware version
read			edid	[Enter]	Read EDID information
read	0	уу	video	[Enter]	Read port video on/off status
read	0	уу	audio	[Enter]	Read port audio on/off status
read	0	*	video	[Enter]	Read all port video on/off status
read	0	*	audio	[Enter]	Read all port audio on/off status

Reset Device Command

The Reset feature resets the VS0102 / VS0104 / VS0108 back to the factory default settings. The formula for the Rest commands are as follows:

Command [Enter]

For example, to reset port 02 back to the factory default settings, input the following:

reset o02 [Enter]

The following tables show the possible values and formats for the **Output Command** and **Port Number** command:

Command	Description
reset	Resets the device back to the factory default settings
Output Command	Description
0	Output Command
Port Number	Description
уу	01-08 port (default is 01)
*	All ports

The following table shows the available command list:

Command	Output	Port	Enter	Description
reset	0	уу	[Enter]	Reset port to factory default settings
reset	0	*	[Enter]	Reset all ports to factory default settings

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

Powering Off and Restarting

If you power off the VS0102 / VS0104 / VS0108, follows these steps before powering it on again:

- 1. Power off the attached devices.
- 2. Unplug the power adapter cable from the VS0102 / VS0104 / VS0108.
- 3. Wait 10 seconds, and then plug the power adapter cable back in.

After the VS0102 / VS0104 / VS0108 is powered on, power on the attached devices.

Appendix

Safety Instructions

General

- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- 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.

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.
- Use caution when pressing the device rail release latches and sliding a device into or out of a rack; the slide rails can pinch your fingers.
- After a device is inserted into the rack, carefully extend the rail into a locking position, and then slide the device into 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

International

- For online technical support including troubleshooting, documentation, and software updates: http://support.aten.com
- For telephone support, *Telephone Support*, page iii:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Sup	port	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			VS0102	VS0104	VS0108
Display Connections			2	4	8
Connectors	Input	Video	1 x HDB-15 Male (Blue)		
		Audio	1 x Mini Stereo Jack Female (Green)		
	Output	Video	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
		Audio	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
	RS-232 Port		1 x DB-9 Female (Black)		
	Power		1 x DC Jack		
Switches	Power		1 x Pushbuttons		
LEDs	Power		1 x (Green / Orange)		
Video			1920x1440 @ 60Hz		
Power Consumption			DC5.3V, 0.8W	DC5.3V, 1.2W	DC5.3V, 2.3W
Environment	Operating Temp.		0-50°C		
	Storage Temp		-20–60°C		
	Humidity		0–80% RH, Non-condensing		
Physical Properties	Housing		Metal		
	Weight		0.46 kg	0.68 kg	0.87 kg
	Dimensions (L x W x H)		13.00 x 7.61 x 4.40 cm	20.00 x 7.61 x 4.40 cm	26.00 x 7.61 x 4.20 cm

Limited Warranty

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.

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