



Simply Better Connections

VS162 / VS164

2/4-Port DVI Video Splitter
User Manual

Compliance Statements

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that 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 to which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/TV technician for help.

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.



KCC Statement

유선 제품용 / B 급 기기 (가정용 방송 통신 기기)
이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는
것을 목적으로 하며 , 모든 지역에서 사용할 수 있습니다 .

RoHS

This product is RoHS compliant.

VS162 / VS164 User Manual

Online Registration

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

Telephone Support

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
United Kingdom	44-8-4481-58923

Technical Support

- ◆ For international online technical support – including troubleshooting, documentation, and software updates:
<http://support.aten.com>
- ◆ For North American technical support:

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4998

Package Contents

Check to make sure that all the components are in working order. If you encounter any problem, please contact your dealer.

- ◆ 1 VS162 / VS164 Video Splitter
- ◆ 1 power adapter
- ◆ 1 user instructions

Note:

- ◆ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
- ◆ The product may be updated, with features and functions added, improved, or removed since the release of this manual. For an up-to-date user manual, visit

<http://www.aten.com/global/en/>

Overview

The 2-port VS162 and 4-port VS164 video splitters chart a new direction in multimedia functionality by combining DVI quality video and audio. They take the signals from an audio/video source and replicate them to two (VS162) or four (VS164) audio/video outputs.

Splitters can be cascaded to three levels to handle up to 64 monitors (VS164), which makes them the ideal solution for situations such as:

- a) Broadcasting video information to the public (news headlines, stock prices, airline and train schedules, etc.)
- b) Company training facilities
- c) Classroom instruction

Features

- ◆ Connects computers with DVI graphics to multiple DVI compatible monitors or projectors
- ◆ Fully compliant with DVI-digital and DVI-analog
- ◆ Supports DDWG (Digital Display Working Group) standard for DVI Compliant monitors
- ◆ Speaker enabled for audio enjoyment
- ◆ Cascadable to 3 levels – provides up to 8/64 video signals
- ◆ Cascade distance: Source to Device - 1.8m, Device to Device - 5m, Device to Display - 5m
- ◆ Installs in minutes
- ◆ Maintains highest single link video resolution (up to 1920 x 1200)
- ◆ DDC, DDC2, DDC2B Compatible (Port 1 only)
- ◆ DDC/CI support – allows color, brightness, contrast and other adjustments to be made via GUI for DDC/CI-enabled LCD monitors
- ◆ HDCP compliant

System Requirements

Consoles

- ♦ A DVI display that matches the computer's DVI display card that is capable of the highest resolution that you will be using on the DVI output.
- ♦ Speakers for audio output (optional)

Computers

The following equipment must be installed on any computer that acts as a source of DVI content:

- ♦ A DVI-I or DVI-A display port

Note: The quality of the display is affected by the quality of the DVI display card. For best results, we recommend you purchase a high quality product.

- ♦ An audio out port (optional – for audio accompaniment to the display)

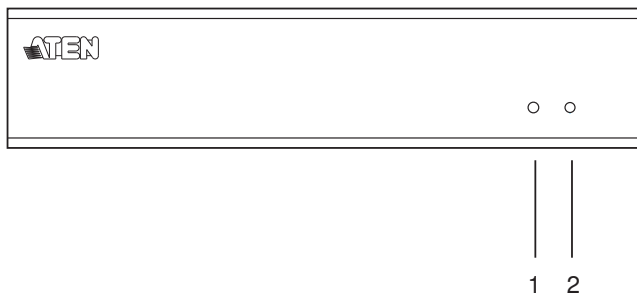
Cables

Two (VS162) or four (VS164) sets of DVI cable are required to properly operate this DVI Switch (not included).

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- Note:**
1. Cables are not included in this package. Since the quality of the display is affected by the quality and the length of the cables, we strongly recommend that you purchase high quality cables. Contact your dealer to purchase the correct cable sets for your switch.
 2. There are three types of DVI signals (DVI-I, DVI-A, DVI-D). The cable type must match the type of signal being used by the DVI source and the DVI display.
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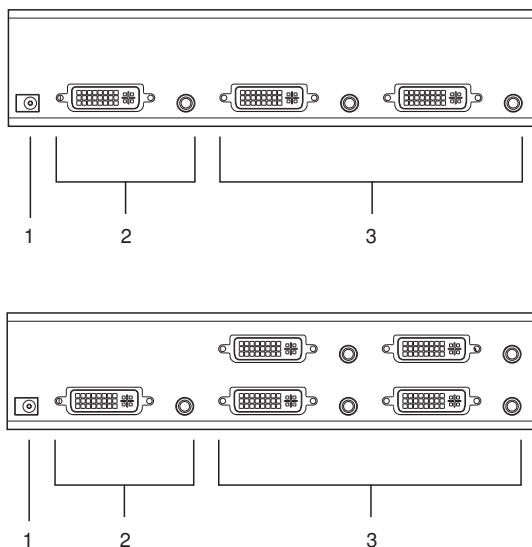
Components

Front View



No.	Component	Description
1	Activity LED	Lights to indicate that there is a working DVI connection to the computer.
2	Power LED	Lights to indicate that the VS162 / VS164 is receiving power and is up and running.

Rear View



No.	Component	Description
1	Power Jack	The power adapter cable plugs in here.
2	A/V Input Section	The cables from your source device's DVI video and speaker ports plug in here.
3	A/V Output Section	The cables from your DVI monitors and speakers plug in here.

Installation

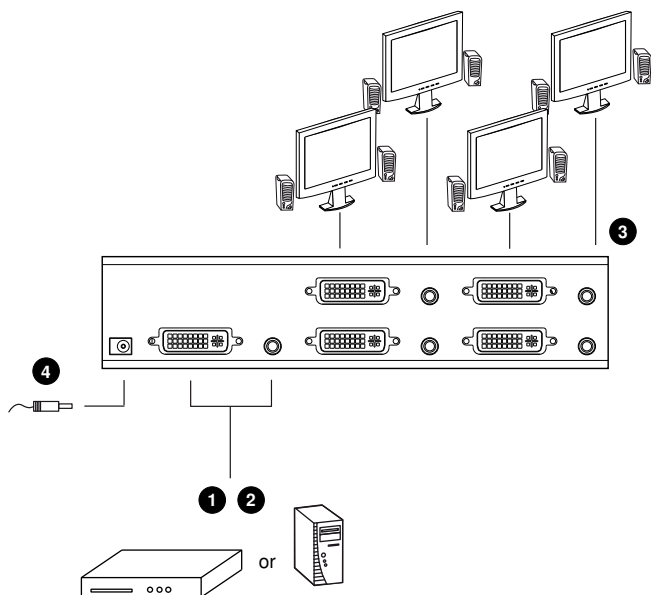


1. Make sure that the power to any device that you connect to the installation has been turned off. You must unplug the power cords of any computers that have the *Keyboard Power On* function.
2. Make sure that all devices you will be installing are properly grounded.

Single Stage

Refer to the installation diagram on the next page (the numbers in the diagram correspond to the numbers of the steps) and do the following:

1. Use a male-to-male DVI cable to connect your source device's DVI port to the VS162 / VS164's Video In port.
2. Use a male-to-male audio cable to connect your source device's speaker port to the VS162 / VS164's Audio In port.
3. Plug your DVI monitors and speakers into the A/V Out ports.
4. Plug the power adapter that came with your switch into an AC power source, then plug the power adapter cable into the switch's Power Jack.



Cascading

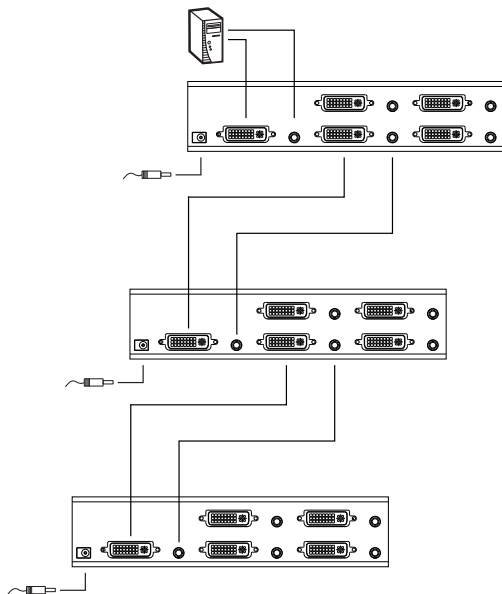
To provide even more audio/video display, additional units can be cascaded from the VS162 / VS164's A/V Out ports. Simply use additional male to male DVI and audio cables to connect an A/V Out port on the parent splitter to the A/V In port of the child splitter.

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

Source to VS162 / VS164: 1.8 m

VS162 / VS164 to VS162 / VS164: 5 m

VS162 / VS164 to display: 5 m



Safety Instructions

- ◆ This product is for indoor use only.
- ◆ 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 uninterruptible 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.

Specifications

Function		VS162	VS164
Video Input	Interfaces	1 x DVI-I Female (White)	
	Impedance	100 Ω	
	Max. Distance	1.8 m	
Video Output	Interfaces	2 x DVI-I Female (White)	4 x DVI-I Female (White)
	Impedance	100 Ω	
Video	Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
	Max. Pixel Clock	225 MHz	
	Compliance	HDCP Compatible	
	Max. Resolution	Up to 1920 x 1200	
	Max. Distance	Up to 5m	
Audio	Input	1 x Mini Stereo Jack Female (Green)	
	Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Connectors	Power	1 x DC Jack	

Function		VS162	VS164
Power Consumption		DC5.3V:2.36W:11 BTU/h	DC5.3V:3.95W:19 BTU/h
		Note: ♦ The measurement in Watts indicates the typical power consumption of the device with no external loading. ♦ The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.	
Environment	Operating Temp.	0–50°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	0.62 kg (1.37 lb)	0.72 kg (1.59 lb)
	Dimensions (L x W x H)	21.0 x 8.8 x 5.55 cm (8.27 x 3.46 x 2.19 in)	

DVI Pin Assignments

Pin	Signal	Pin	Signal
1	TMDS Data2-	16	Hot Plug Detect
2	TMDS Data2+	17	TMDS Data0-
3	GND	18	TMDS Data0+
4	N.C.	19	GND
5	N.C.	20	N.C.
6	DDC Clock	21	N.C.
7	DDC Data	22	TMDS Clock Shield
8	Analog Vertical Sync.	23	TMDS Clock+
9	TMDS Data1-	24	TMDS Clock-
10	TMDS Data1+	C1	Analog Red
11	GND	C2	Analog Green
12	N.C.	C3	Analog Blue
13	N.C.	C4	Analog H. Sync.
14	+5V Power	C5	Analog Ground (Analog R, G, B Return)
15	Ground (return for +5V, H Sync., and V Sync.)		

Troubleshooting

Symptom	Possible Cause	Action
Erratic behavior.	Unit not receiving enough power.	Use a DC 5.3V power adapter if you are not already using one. If you are already using a power adapter, check that it matches the system specifications (DC 5.3V), and that it is functioning properly.
Video doesn't display on some ports.	DVI specification of the source device doesn't match the DVI specification of the DVI cable and/or the DVI display device.	There are three DVI standards: DVI-A; DVI-D; and DVI-I. Make sure that the DVI specifications of the source device, cable and monitor all match.
		Note: Some monitors are able to support multiple DVI signals.
		DVI-D only supports resolutions up to 1280 x 1024
	No DDC2B monitor on Port 1.	Since Port 1 is the port that supports DDC2B, there must be a monitor that supports DDC2B on Port 1.
	Port 1 monitor resolution set too high.	The resolution of the monitor on Port 1 must not exceed the maximum resolution of any of the other monitors.
	Port 1 monitor resolution not supported by other monitors.	The monitor on Port 1 must be set to a resolution that the other monitors support.
	Mixing of Apple Cinema Display and LCD monitors.	The monitors must all be Apple Cinema Display monitors, or all LCD monitors.

ATEN Warranty Policy

The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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