

Video Splitter

USER MANUAL

VS92A / VS94A / VS98A

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B 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 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 or 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.

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。



VS92A-VS94A-VS98A

USER MANUAL

ONLINE REGISTRATION

You can register your product at our online support center:

- ◆ International – <http://support.aten.com>
- ◆ North America – http://www.aten-usa.com/product_registration

ONLINE SUPPORT

- ◆ Online technical support is available to ATEN customers through our support center:
 - ◆ International – <http://support.aten.com>
 - ◆ North America – <http://www.aten-usa.com/support>.
- ◆ Troubleshooting, Documentation (including online manuals), and Software Updates (firmware and drivers) are available at the ATEN website:
 - ◆ International – <http://www.aten.com>
 - ◆ North America – <http://www.aten-usa.com>

PACKAGE CONTENTS

The VS92A-VS94A-VS98A Video Splitter package contains the following items:

- ◆ 1 VS92A or VS94A or VS98A Video Splitter
- ◆ 1 DC 9V Power Adapter
- ◆ 1 User Manual*

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 VS92A-VS94A-VS98A since this manual was printed. Please visit our website to download the most up to date version of the manual.

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OVERVIEW

These video splitters are boosting devices that duplicate the video signal from any analog monitor source to two (VS92A); four (VS94A); or eight (VS98A) outputs. As such, they provide fast, flexible, solutions for situations such as:

- ◆ Broadcasting video information (news headlines, stock prices, airline and train schedules, etc.), to the public
- ◆ Monitoring harsh work environments from safe locations
- ◆ Classroom or company training facilities

The VS92A, VS94A, and VS98A go beyond being merely duplicators, however, in that they also enhance the video signals over long distance broadcasting of up to 65 m (213').

In addition, units can be daisy chained to handle as many monitors as the installation requires – making them excellent solutions for public broadcast systems.

To achieve multiple high quality VGA, SVGA, or Multisync video signals over long distances, these video splitters are your best choice.

FEATURES

- ◆ Ultra High 250 MHz (VS92A / VS94A) or 200 MHz (VS98A) Bandwidth
- ◆ Enhances Video Signal for Distances up to 65 m (213')
- ◆ Supports DDC, DDC2, DDC2B (Port 1 Only)
- ◆ Daisy Chainable
- ◆ All Metal Housing
- ◆ Small Form Factor
- ◆ Ideal for Public Broadcasting; Remote Monitoring; Classroom and Training Facilities

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- Note:**
1. If you connect a DDC type monitor to Video Out Port 1, all other monitors must be able to support the highest resolution that the DDC monitor can provide.
 2. These products are designed for VGA, SVGA, and Multisync monitors. They are not suitable for CGA, EGA, or MONO type monitors that use digital video signals.
 3. For the best video quality, we recommend using UL2919 rated extender cables.
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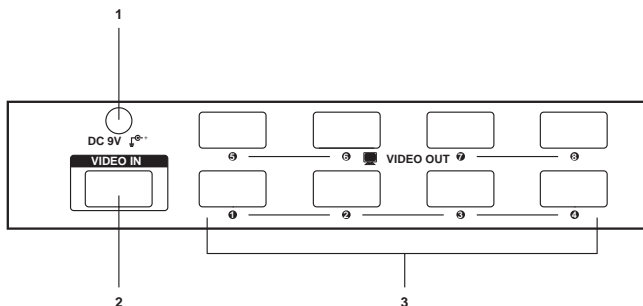
COMPONENTS

FRONT VIEW



1. Power LED Lights to indicate the unit is receiving power.

REAR VIEW



1. Power Jack

The cable from the Power Adapter plugs in here.

2. Video In Port

- ◆ If this is a First Stage unit, the cable from the PC's video port plugs in here.
- ◆ If this is a Daisy Chained unit, the cable from the Video Out port of the higher stage unit plugs in here.

3. Video Out Ports

The cables to the monitors can plug in to any available port.

Note: 1. If you connect a DDC type monitor to Video Out Port 1, all other monitors must be able to support the highest resolution that the DDC monitor can provide.

2. The Front and Rear Views in the diagrams are for a VS98A. A VS92A and VS94A will have two and four Video Out Ports, respectively, instead of the eight Video Out Ports shown in the diagram.
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INSTALLATION



1. Make sure that the power to all the devices you will be connecting up 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 connecting up are properly grounded.

SINGLE STAGE INSTALLATION

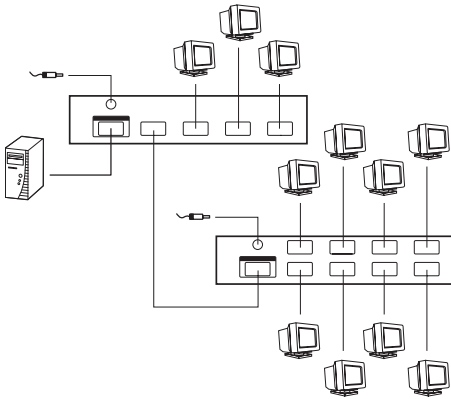
In a Single Stage installation no additional Video Splitters are daisy chained down from the first unit. To set up a single stage installation do the following:

1. Use a high density HDB-15 male/female video extender cable (Part No. 2L-2401) to connect the PC's video port to the **Video In** port of the Video Splitter.
2. Use high density HDB-15 male/female video extender cables (Part No. 2L-2401) to connect the **Video Out** ports of the Video Splitter to the monitors.
3. Plug the power adapter into an AC source; plug the power adapter cable into the Video Splitter's Power Jack.
4. Power up the Video Splitter; power up the monitors; power up the PC.

DAISY CHAINING

To provide video display for more monitors, additional Video Splitters can be daisy chained. Use a high density HDB-15 male/female video extender cable (Part No. 2L-2401), to connect any available **Video Out** port on the higher level Video Splitter to the **Video In** port of the lower level Video Splitter.

You can chain as many Video Splitters as there are ports available, and all three models can be mixed on the same chain. Theoretically, there is no limit to the number of splitters that can be chained, but the quality will deteriorate as you chain further and further away from the video signal.



SPECIFICATIONS

Function	VS92A	VS94A	VS98A
Video Input Connectors	1 x HDB-15 (Male)		
Video Output Connectors	HDB-15 (Female)		
	2	4	8
Power Connectors	1 x DC Jack		
Max. Resolution	@ 60 Hz		
	1920 x 1440		1600 x 1200
Bandwidth (-3db)	250 MHz	250 MHz	200 MHz
Cable Distance (Device to Monitor)	65 m (213') max.		
Signal Type	VGA, SVGA, XGA, Multisync		
Operating Temperature	5 - 40° C		
Power Consumption (Max.)	DC 9V		
	0.85 W	2.43 W	3.6 W
Storage Temperature	-20 - 60° C		
Humidity	0 - 80% RH, Non-condensing		
Housing	Metal		
Weight	0.32 kg	0.45 kg	0.53 kg
Dimensions (L x W x H)	13.00 x 7.50 x 4.50 cm	20.00 x 7.50 x 4.50 cm	

VIDEO OUT PIN ASSIGNMENTS

No.	Assignment	No.	Assignment
1	Red video	9	NC
2	Green video	10	Ground
3	Blue video	11	ID0
4	ID2	12	ID1
5	Ground	13	Horizontal Sync
6	Analog Ground	14	Vertical Sync
7	Analog Ground	15	ID3
8	Analog Ground		

ABOUT SPHD CONNECTORS



This product uses SPHD connectors for its KVM and/or Console ports. We have specifically modified the shape of these connectors so that only KVM cables that we have designed to work with this product can be connected.

LIMITED WARRANTY

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM THE 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 specially 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 inquires please contact your direct vendor.