

ATLONA

8x4 Composite Video/S-Video and Analog Audio Matrix Switcher With IR & RS 232 Control / RS 232 Driver for Win98/2000/XP

AT-SAV-84M

USER MANUAL





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INTRODUCTION

Atlona Technologies' AT-SAV-84M is a 8x4 S-Video/Composite Video/Analog Audio Matrix Switcher designed to work as a switcher for multiple Audio/Video sources and displays. This Atlona unit is capable of switching Composite Video, S-Video and Stereo Audio signals between eight sources and four displays. Because it is a matrix switch, any or all of the 8 inputs can simultaneously be switched to any or all of the outputs. With a maximum bandwidth of 380MHz, this devise will support sharp and highly defined video in multiple resolutions of up to 480i/576i. This unit has quick and easy installation. With manual, RS232, as well as IR Remote control options, Atlona's AT-SAV-84M Matrix Switcher is perfect for all Video equipment that using S-Video signal such as Cable and Satellite receivers, VCRs, DVD Players, Set Top Boxes...etc.

FEATURES

- Switches S-Video, Composite Video and Analog Audio between 8 sources and 4 displays.
- · Matrix Switch: each input can be directed to any or all outputs at the same time
- 19" Rack mountable brackets
- Front LED displays
- · S-video, composite video and stereo audio inputs and outputs
- AV Connectors could be used as component video for HDTV signal transfer
- Supports high resolutions: HDTV 480p, 720p, 1080i, 1080p
- Supports RS232 interface control driver for Windows 98/2000/XP
- · Gold plated RCA sockets for optimum signal transfer
- RS232 and manual Control
- IR Remote Control

SPECIFICATIONS

Video Inputs	8 x Composite Video / 8 x S-Video	
Audio Inputs	4x Stereo R/L, 40KΩ on RCA Connectors	
Video Outputs	4 x Composite Video / 4 x S-Video	
Audio Outputs	4x Stereo R/L, 40KΩ on RCA Connectors	
Support Resolution	480p, 720p, 1080i60, 1080P	
Video Bandwidth	>380MHz	
Video Distortion	<1.2db (Standard +/- 3db)	
Audio Input impedance	10K Ohms	
Channel Isolation	>50db	
S/N Ratio	>50db	
Power Consumed	500mA Maximum @300mA	
Power Source	12 Volts DC	
RS232 Interface	9-pin	
Net Weight	6lbs	
Dimensions	17.32 " W x 7.87 " D x 1.73 " H	



PACKAGE CONTENTS:

- 8x4 Matrix Switcher (AT-SAV-84M)
- Instruction Manual
- IR Remote Control
- RS232 Software
- Universal AC/DC power adapter: 12VDC (110-240V)
- 19-inch Rack Ears (pair)

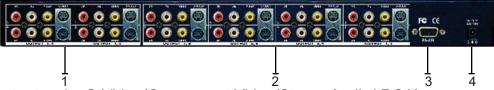
PANEL DESCRIPTIONS

1. Front Panel



- 1. Power SWITCH: Power Unit ON/OFF
- 2. Channel Display: Channels 1-4 Displayed with LED
- 3. Channel Buttons: Press for desired Video Input/Output setting

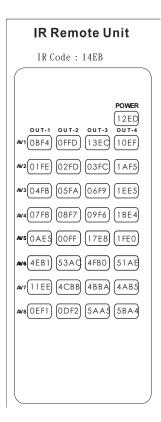
2. Rear Panel



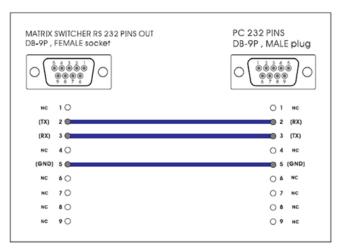
- 1. Outputs: 4 x S-Video/Component Video/Stereo Audio(RCA).
- 2. Inputs: 8 x S-Video/Component Video/Stereo Audio(RCA).
- 3. RS-232 port
- 4. Power Input: 12V DC



IR CODES



RS-232 COMMANDS



- 2. Transmission Rate: 9600bps
- 3. Data Format: 8 data bits, No parity, 1 start bit and 1 stop bit
- 4. Flowing control: None
- 5. Commands are sent between the controller and as 8 ASCII bytes.
- 6. Controlling commands (from a controller to)

The first six ASCII bytes indicate the action of the command as ASCII format.

The rest of bytes indicate the action of command as ASCII format.



Item	Command	Function	Description
1	SBSYSMON	Power on	System power on
2	SBSYSMOF	Power off	System power off
3	SBlxxO01	Channel 1 setting	1 st output comes from xth input, x=(01, 02,, 06)
4	SBlxxO02	Channel 2 setting	2 st output comes from xth input, x=(01, 02,, 06)
5	SBlxxO03	Channel 3 setting	3 st output comes from xth input, x=(01, 02,, 06)
6	SBlxxO04	Channel 4 setting	4 st output comes from xth input, x=(01, 02,, 06)
7	SBSYSMLK	Locked toggle On	Is locked toggle on. When Locked on all status are changed by RS232 only
8	SBSYSMUK	Locked toggle Off	Is locked toggle off. When Locked off all status are changed by RS232 only
9	SBALLRST	Reset	Is reset and every output Comes from 1 st input.
10	SBASKSTA	Ask Status	Request status information

7, Feedback commands (from a controller)

The 8 ASCII feedback commands are send after receiving the command from a controller

Item	Command	Function	Description
1	SBALONAK	Power on	Responses the system power. On command to the controller
2	SBALOFAK	Power off	Responses the system power. Off command to the controller
3	SBUDxx01	Channel 1 updated	Changes the 1 st output signal. xx is the selected source xx=(01, 02,, 06)
4	SBUDxx02	Channel 2 updated	Changes the 2 st output signal. xx is the selected source xx=(01, 02,, 06)
5	SBUDxx03	Channel 3 updated	Changes the 3 st output signal. xx is the selected source xx=(01, 02,, 06)
6	SBUDxx04	Channel 4 updated	Changes the 4 st output signal. xx is the selected source xx=(01, 02,, 06)
7	SBSYSLOK	Lock on	Is locked on
8	SBSYSULK	Lock off	Is released
9	SBRSTACK	Reset	Responses the reset command.
10	SBSTATAK	Status asknowledge	Responses the ask status Command to the controller



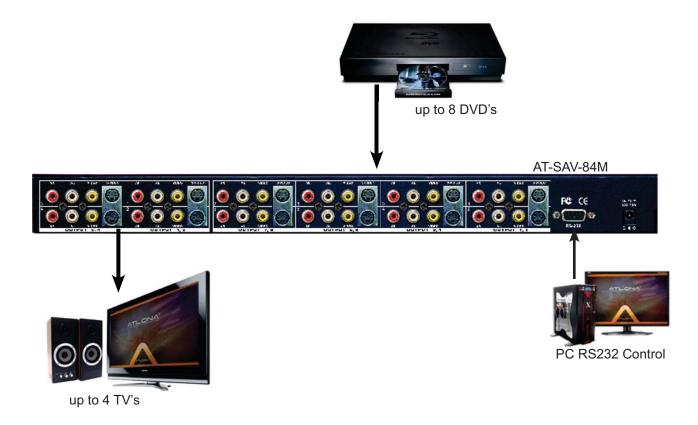
Remark: The device responds to one feedback command for every request except the <SBASKATA>. After the device receives <SBASKATA>, it will send the 10th, 1/2th, IN/OUT state, 7/8th command sequentially.

Note: Responses IN/OUT state command: SBUD0000XXYY

input port XX=> (01, 02, ..., 06)

output port YY=> (01, 02, ..., 06)

INSTALLATION



- 1. Switch off all devices, including monitors.
- 2. Connect all sources to the Desired Video/Audio Inputs
- 3. Connect all displays to desired Audio/Video Outputs
- 4. Plug in 12V DC power supply.
- 5. Power on the monitors.
- 6. Power on the sources.
- 7. Power on AT-SAV-84M



SAFETY INFORMATION

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

Do not modify the wall plug. Doing so will void the warranty and safety features.

This equipment should be installed near the socket outlet and the device should be easily accessible in case it requires disconnection.

Precautions

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.

In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product. Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.

Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-SAV-84M. Opening the product will void the warranty.

Do not attempt to service the unit. Instead disconnect it and contact your Authorized ATLONA reseller or contact ATLONA directly.



WARRANTY

1. LIMITED WARRANTY

Atlona Technologies warrants that (a) its products (the "Product") will perform substantially in accordance with the accompanying written materials for a period of 3 YEARS from the date of receipt and (b) that the Product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to Customer.

2. CUSTOMER REMEDIES

Atlona Technologies and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' option, either return of the price paid for the Product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of Customer's receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period or 3 year, whichever is longer.

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