



ATLONA
8x8 COMPONENT MATRIX SWITCHER
WITH STEREO AUDIO
AT-COMP-88M

USER MANUAL



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INTRODUCTION

Atlona Technologies' AT-COMP-88M is one of the most innovative Component with Stereo Audio on the market. The AT-COMP-88M has 8 individual Component (RCA) inputs with Stereo Audio and 8 individual outputs. Because it is a matrix switch, any input can route to any output; and the same input can route to all outputs or any other combination. This unit is ideal for connecting sources including: (VCRs, Camcorders, AppleTV, Video Game Consoles, DVDs, Satellite Receivers, Set Top Boxes, etc.) to desired displays such as: (HDTV, LCDs, Plasma Monitors, Video Projectors, etc.) Selection of inputs can be achieved manually through the Front Panel, through Infrared Remote Control, or RS232 control. Switch with flawless and crystal-clear distribution of all HDTV video formats up to 1080p as well as audio signals.

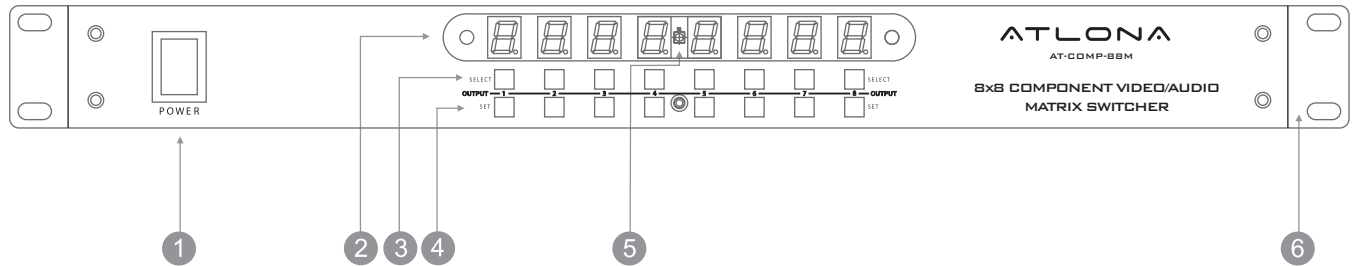
FEATURES:

- Supports 8 inputs to 8 outputs (Component Video(YPBPR) Matrix Switcher
- Input/Output signals via Component Video(YPBPR), Digital(PCM), Stereo Audio
- Higher Video Bandwidth (325MHz)
- Supports high definition resolutions: 408p, 576i/p, 720p, 1080i/1080p
- Digital Audio (PCM) and Composite Video compliant
- Compatible with all Component Video devices, Plasma TV display and HDTV
- Supports RS232 serial interface
- Control PC RS232 Drive compatible with win-95/98/2000/xp
- Various User Interface controls: RS232, IR, Front Panel Controls
- Ear mount and 19 inch Rack mountable panel
- Power supply DC12Volt, Universal Type Switch 100~230VAC, 50/60Hz

PACKAGE CONTENTS:

- Atlona AT-COMP-88M 8X8 Component Matrix Switch Unit
- Operating Instructions
- IR Remote Controller
- 19 inch Ear mount pair
- RS232 Cable and Software package
- Power Supply 12VDC, Universal Type 50/60Hz, 100~230 VAC

1. Front Panel



1. **POWER SWITCH:** The power switch turns the unit on and off. The LED illuminates red to when the switcher is powered ON
2. **OUTPUTS 1-8 LED DISPLAY:** Output channels 1 to 8 are show from LED display which illuminate red to indicate which video source is present on the input.
3. **INPUTS 1-8 SELECT BUTTONS:** Source selection buttons are provided for each output.
4. **SOURCES SETUP BUTTONS:** Setup the input sources for channels 1 - 8
5. **IR SENSOR:** The IR sensor receives IR commands from the remote control
6. **19 INCH EAR MOUNT PAIR:** 19 inch 2U Ear Mount pair

Front Panel Operation Example

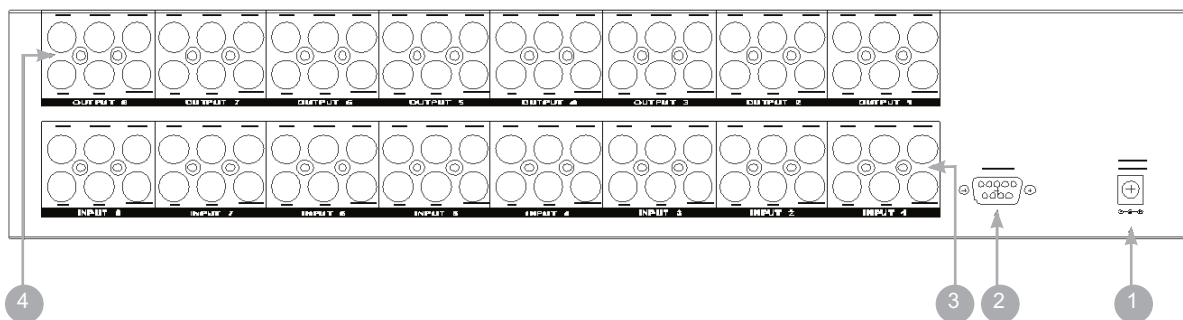
Press < **Select** > push button till desired channel is displayed, then press < **Set** > push button to confirm.

Without pressing < **Set** > to confirm within 1 second, LED display will flash five times for return back to Channel 1


When connecting the AT-COMP-88M, send inputs to desired signals

Next, switch the power switch to <On> and you should see and hear the signals on the devices you have connected to the various output connectors of this unit.

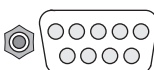
2. Rear Panel



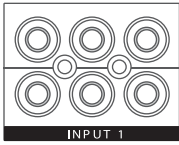
1. Power Input

-  DC Jack - inner OD O 2.1mm (+)
Outside OD O 5.5mm (GND)
Power input - 12VDC, 2A

2. RS 232 CONNECTION

-  DB-9pin Female connector

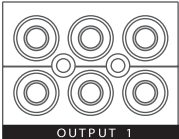
3. INPUTS 1-8 COMPONENT/DIGITAL-AUDIO



Component Video (YPBPR) Via 3x RCAs
Digital Audio (PCM) Via 1x RCA connector
Stereo Audio (AR/AL) Via 2x RCA connectors

Connect desired sources of Component Video (YPBPR)/digital Audio (PCM)/Stereo Audio device to 8:8 switcher inputs 1-8

4. OUTPUTS 1-8 COMPONENT/DIGITAL-AUDIO



Component Video (YPBPR) Via 3x RCAs
Digital Audio(PCM) Via 1x RCA connector
Stereo Audio(AR/AL) Via 2x RCA connectors

Note: With 6x RCA female connectors

Connect Component Video(YPBPR)/Digital Audio 1-8 Outputs to desired HD display.

CONNECTION

Before making any connections to the AT-COMP-88M:

Ensure the mains voltage supply matches the label on the supplied plug-Pack (+/- 10%).

Ensure that the power switch is OFF.

Avoid powering equipment within a system from multiple power sources that may be separated by large distances.

Connect all audio video sources to the desired equipment.

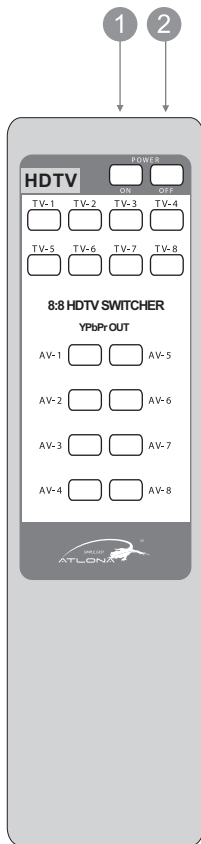
Connect AC Adaptor to unit.

Power up all source and destination audio-visual sources.

For each destination output select the appropriate input source by using front panel inputs 1-8 select buttons manually, the IR remote control, or through the RS 232 serial communications port.

*When powering up the switcher, settings will return to its last those last used before Powered down.

REMOTE CONTROL



1. Power ON
2. Power OFF
3. OUTPUT 1-8 DISPLAYS SELECTION

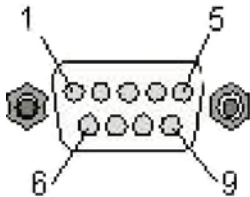
Output -1 : TV-1 Component Video (YPBPR) HDTV Display
 Output -2 : TV-2 Component Video (YPBPR) HDTV Display
 Output -3 : TV-3 Component Video (YPBPR) HDTV Display
 Output -4 : TV-4 Component Video (YPBPR) HDTV Display
 Output -5 : TV-5 Component Video (YPBPR) HDTV Display
 Output -6 : TV-6 Component Video (YPBPR) HDTV Display
 Output -7 : TV-7 Component Video (YPBPR) HDTV Display
 Output -8 : TV-8 Component Video (YPBPR) HDTV Display

4. INPUT 1-8 SOURCES SETUP

Input -1 : AV-1 Component Video (YPBPR) Signal source device
 Input -2 : AV-2 Component Video (YPBPR) Signal source device
 Input -3 : AV-3 Component Video (YPBPR) Signal source device
 Input -4 : AV-4 Component Video (YPBPR) Signal source device
 Input -5 : AV-5 Component Video (YPBPR) Signal source device
 Input -6 : AV-6 Component Video (YPBPR) Signal source device
 Input -7 : AV-7 Component Video (YPBPR) Signal source device
 Input -8 : AV-8 Component Video (YPBPR) Signal source device

RS-232 SERIAL INTERFACE

RS-232 SERIAL INTERFACE CONNECT a PC or CONTROL SYSTEM



Pin	RS-232	Definition
1	-	Not used
2	TX	Transmitter
3	RX	Receiver
4	-	Not used
5	GND	Ground
6	-	Not used
7	-	Not used
8	-	Not used
9	-	Not used

RS-232

Atlona's AT-COMP-88M can be controlled via the RS-232 serial control port to allow for interfacing to a PC. The serial communication parameters are 9600 baud, 8 bit, No Parity and 1 stop bit - this is often referred to as 9600 8N1.

When the unit recognizes a complete command it will perform the requested action - there is no delimiter character required. The unit does not send out a message when a value is changed from the front panel or IR control. If this unit needs to be controlled via the front panel in addition to the RS232 control, regularly poll the unit status to ensure the control system accurately reflects the current settings or similar third party control system.

PROTOCOL COMMANDS

To Switch Inputs to Outputs

SBI0X00Y- Where X is the Input Number (1-8) and Y is the Output Number (1-8)

Unit will respond with

SBUD0X0Y- Where X is the Input Number (1-8) and Y is the Output Number (1-8)

Example : Send Input 8 to Output 3

SBUD0803-Send

SBI08003-Rcvd

RS-232 PROTOCOL COMMANDS

STANDBY MODE

Note: Turning the unit System Power Off over RS232 will distinguish the LED display leaving only the Power Switch LED on. The Video and Audio outputs will also mute. While the unit is turned off by RS232 it will continue to accept and act upon switching commands. For example, if the unit is in the off mode (via RS232) and you send a command to switch an input to an output, that route will complete and the video and audio will now appear on that channel only. The front panel LED for that particular output will also show the input selected (for that single output channel only). The remaining LED's will remain off and video and audio outputs muted. The unit will still return status and change messages in response to commands sent while in Power Off state. A hard reset command (SBALLRST) will return the unit to normal operation and also unlock the front panel.

POWER OFF MODE

SBSYSMON- Place system into Standby (Soft Power Off)

SBSYSMOF- Bring unit out of Standby (Soft Power On)

Unit will respond with

SBALOFAK- Unit is in Standby

SBALONAK- Unit is no longer in Standby

Example : Put Unit in Standby (Soft Power)

SBSYSMOF - Put system into Standby (Soft Power Off)

SBSYSMON - Bring unit out of Standby (Soft Power On)

FRONT PANEL LOCK

Note : Hard resetting the unit will unlock the Front Panel controls.

SBSYSMLK- When front panel is locked, changes can only be made by Rs232

SBSYSMUK- Front Panel Unlock

Unit will respond with

SBSYSLOK- Front Panel has been Locked

SBSYSULK- Front Panel has been Unlocked

Example : Lock Front Panel Buttons

SBSYSMLK-Send

SBSYSLOK-Rcvd

UNIT RESET

SBALLRST - Reset every output to Input 1

Unit will respond with

SBRSTACK- Unit has reset each Output to Input 1

Example : Reset all outputs to Input 1

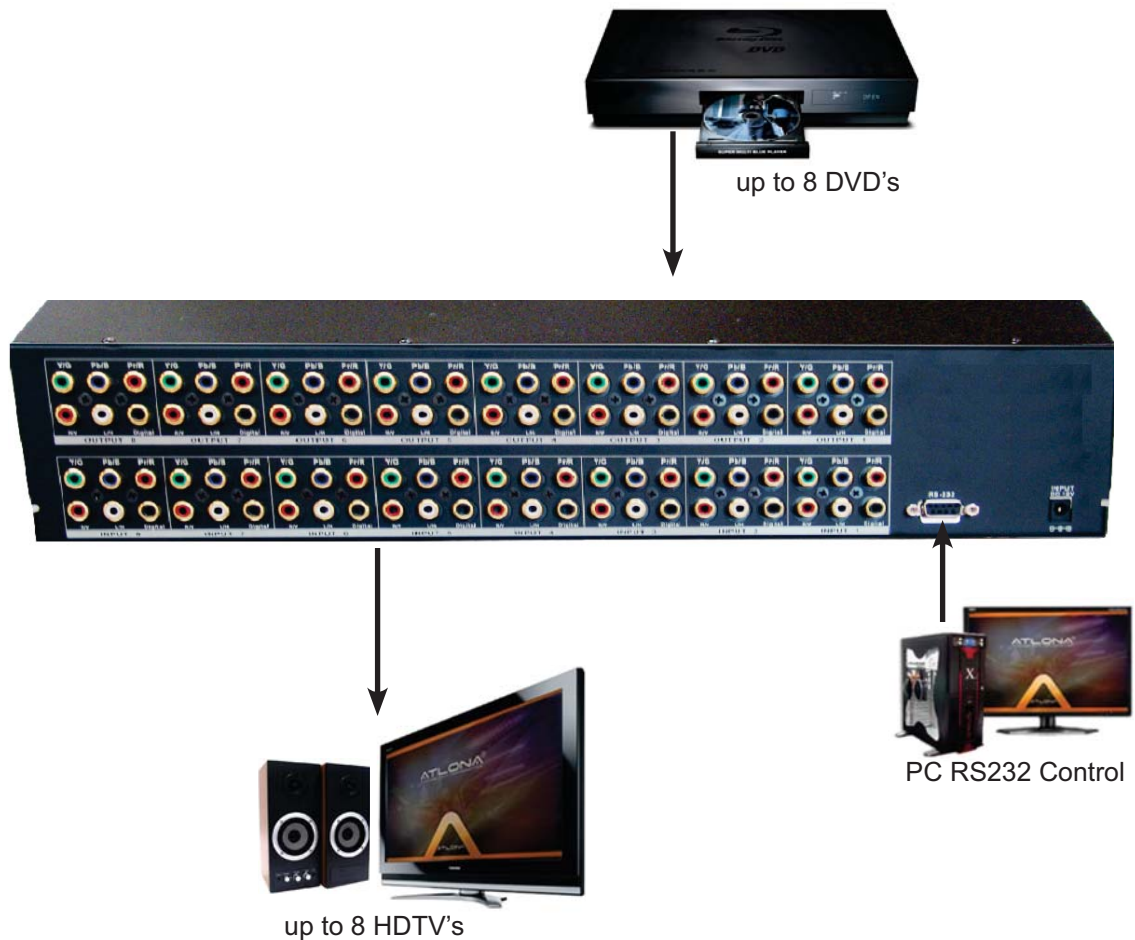
SBALLRST-Send

SBRSTACK-Rcvd

SPECIFICATIONS

- 8 inputs to 8 outputs (Component Video and Digital/Stereo Audio) Matrix Switcher
- Video : Component Video (YPBPR) 0.5~1.0Vpp, DDC 5Vpp,
- Digital Audio (PCM), Via 1x RCA connector
- Stereo Audio (AR/AL), Via 2x RCA connector(Red/white)
- Video Bandwidth : 325MHz (-3db), 200mVp-p
- Video Supported: High Resolution formats 480i/p, 720p & 1080i/p (50/60Hz)
- Controls: IR remote, Manually Select buttons on the front panel & RS232
- Decrease hostile crosstalk: -83 db@5MHz
- Audio Support: Digital Audio(PCM) and Stereo Audio(AR/AL)
- PC RS232 Control : DB9
- Gain control: 60MHz 0.1 db gain flatness
- Safety Approvals: CE, FCC, RoHs(2002/95/EC).
- Dimensions (LWH): 19"x 7.87" x 3.46"(482mm x 200mm x 88mm)
- Power Supply: DC12V / 2A (consumption 1250mA Max)
- Use Universal Switch Type 50/60Hz, 100~230 VAC
- Shipping Weight : 3.85 Kgs / 7.42 lb

8x Component sources to 8x Component Output Matrix Switcher



INSTALLING

CONTROL PORTS:

1. IR REMOTE - IR Remote Controller
2. RS 232 Interface - RS232 interface system

INPUTS 1 - 8 (HD SOURCE SIGNALS):

- COMPONENT VIDEO - Component Video(YPBPR), connector with RCA
- DIGITAL - Digital Audio(PCB), connector with RCA
- AUDIO - Stereo Audio (AR/AL), connector with RCA

OUTPUTS 1 - 8 (HDTV DISPLAY SIGNALS):

- DIGITAL - Digital Audio(PCB), connector with RCA
- AUDIO - Stereo Audio (AR/AL), connector with RCA

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-COMP-88M. 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.

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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