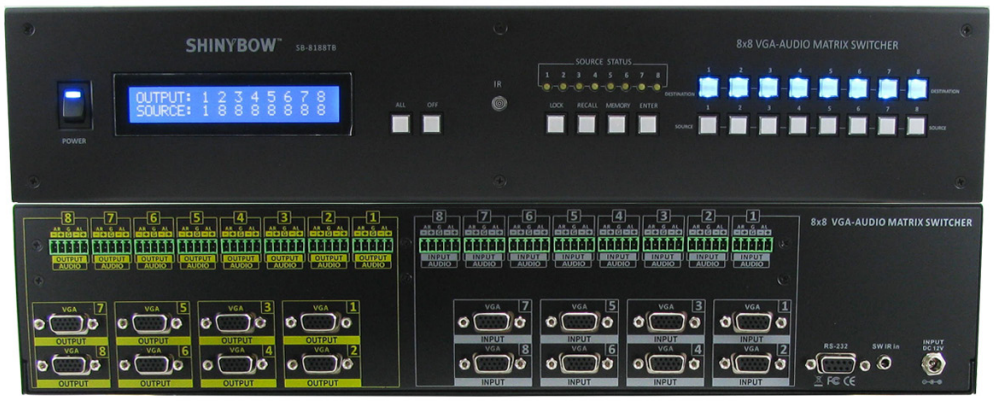
INSTRUCTION MANUAL

SB-8188TB

8x8 VGA (RGBHV) HDTV w/ Stereo Analog Audio (Terminal block) Matrix Routing Switcher



SHINYBOW™ USA

MULTIMEDIA AUDIO AND VISUAL

SAFETY INFORMATION

1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the “ON” position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically “blown free” of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen, or liquid has been spilled into the equipment.
    C. The equipment has been exposed to rain
    D. The equipment does not appear to operate normally, or exhibits a marked change in performance
    E. The equipment has been dropped, or the enclosure damaged.

TABLE OF CONTENTS

VGA-Audio Matrix Switcher Series

Thank you for purchasing the SB-8188TB VGA-Audio Matrix Switcher. You will find this unit easy to install and highly reliable but it is essential that you read this manual thoroughly before attempting to use this switcher.

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INTRODUCTION

Congratulations on your purchase one of the most innovative VGA (RGBHV)/Stereo Audio (AR/AL) 8x8 matrix switching products on the market today. The SB-8188TB is a true matrix routing switcher for VGA(RGBHV)/Stereo Audio(AR/AL) signals. It has (8) individual VGA (RGBHV)/Stereo Audio (AR/AL) inputs with (8) individual VGA (RGBHV) /Stereo Audio(AR/AL) outputs. Because it is a matrix router, any input may be routed to any output; or the same input may be routed to all outputs or any combination. It completely eliminates the need to constantly move around audio and video input cables and output via VGA (RGBHV) cables. The SB-8188TB is useful for matrix signals from VGA source devices (such as: Personal computer, Set Top Box, and Satellite Receivers, etc.) to VGA destination devices over VGA cables to (Such as LCD Monitors, VGA Monitors, Plasma LCD TV, VGA Projectors, etc.). Selection of inputs is made via the front panel push buttons or an Infrared Remote Control unit or RS-232 control by a computer.

PACKAGE CONTENTS

Check that you have the following components;

- SB-8188TB 8x8 Matrix Switcher
- IR Remote Controller (SW-8188)
- 19 inch 2RU(3½") rack mount brackets (Part # 2U-440L)
- IR Extender receiver (SB-100)
- RS-232 Cable
- CD Contents: This manual, Windows GUI
- Users Guide
- AC/DC Adapter: 12VDC, 3A Universal Type 50/60Hz, 100~230 VAC

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

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FEATURES & SPECIFICATIONS

FEATURES

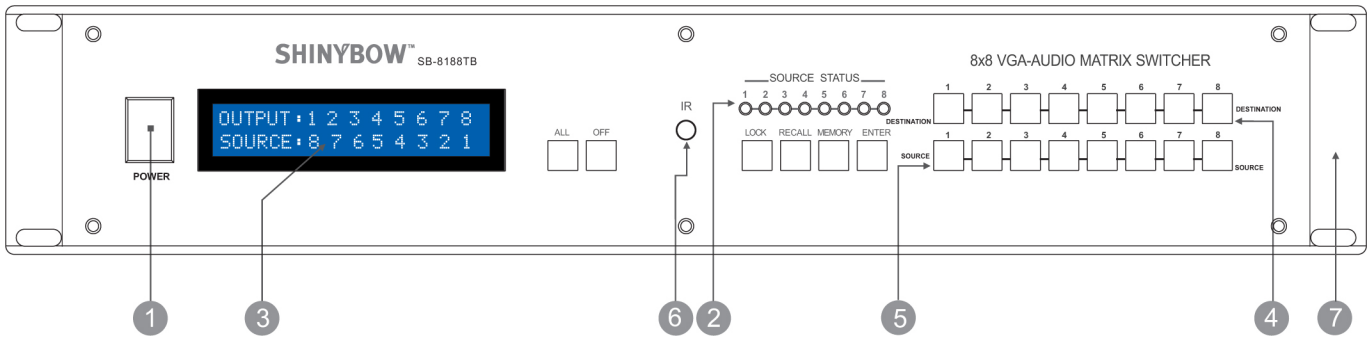
- Supports 8x VGA+Stereo Audio inputs to 8x VGA+Stereo Audio outputs
- 8x VGA (RGBHV), Stereo Audio (AR/AL) Input signals
- 8x VGA (RGBHV), Stereo Audio (AR/AL) Output signals to VGA Monitor displays
- Higher Video Bandwidth 450MB each path R,G,B signals
- Supports HD high definition resolutions XGA, SXGA, UXGA, WSXGA, WUXGA
- RS-232 serial interface via ethernet control (optional)
- Compatible with all VGA Video Monitor devices, Plasma displays and Projectors
- Supports RS-232 serial interface protocol commands list
- Control PC RS-232 Drive compatible with win-95/98/2000/xp
- Various User Interface controls:
  - Attached Window based control software for Desktop or NB control by RS-232 port
  - Manual controlled by front panel buttons
  - IR remote control
- Supports desktop or rack mountable ear mounts 19 inch with rack mount
- Power supply DC12Volt, Universal Type Switch 100~230VAC, 50/60Hz

SPECIFICATIONS

- **Type of Switcher:** (8) In to (8) Out, VGA (RGBHV)-Audio Matrix Switcher
- **Input Ports: Group:**
  - 8x VGA (RGBHV) via HD-15p VGA female connectors
  - 8x Stereo Audio (AR/AL) via Terminal Block 5 pin female jacks
- **Output Ports: Group:**
  - 8x VGA (RGBHV) via HD-15p VGA female connectors
  - 8x Stereo Audio (AR/AL) via Terminal Block 5 pin female jacks
- **Video Bandwidth:** 325MHz (-3db), 200mVp-p
- **Video Supported:** Higher resolution formats HD 1920x1200 (WUXGA)
- **Audio Supported:** Stereo Audio
- **Low All Hostile Crosstalk:** -83db@5MHz
- **Controls:** IR remote, Select buttons on the front panel & RS-232
- **PC RS-232 Control:** RS-232 interface serial via DRV on a PC
- **Gain Control:** 60MHz 0.1 db gain flatness
- **Chassis Material:** Metal
- **Dimensions (WxDxH):** 19 x 7.87 x 3.46 in (482x200x88mm)
- **Shipping Weight:** 3.55 Kg / 5.85 lb
- **Safety Approvals:** CE, FCC, VCCI, Erp, WEEE
- **Power Supply:** DC12V / 3A (consumption 1.6A Max) Use Universal Switch Type 50/60Hz,100~230 VAC

As product improvements are continuous, specifications are subject to change and without notice.

FRONT PANEL



1. POWER ON SWITCH: The power switch turns the unit on and off. The LED will illuminate red to indicate that the switcher is ON and is receiving power. The Switcher will remember that last state during a power cycle. When power is removed and resorted, the last configuration will be evoked.

2. INPUT STATUS DISPLAY: Input sources 1 to 8 LED illuminates blue to indicate that a video source is present on that input.

3. OUTPUT STATUS DISPLAY: Each Output (destination) Channel shows which input (source) is assigned.

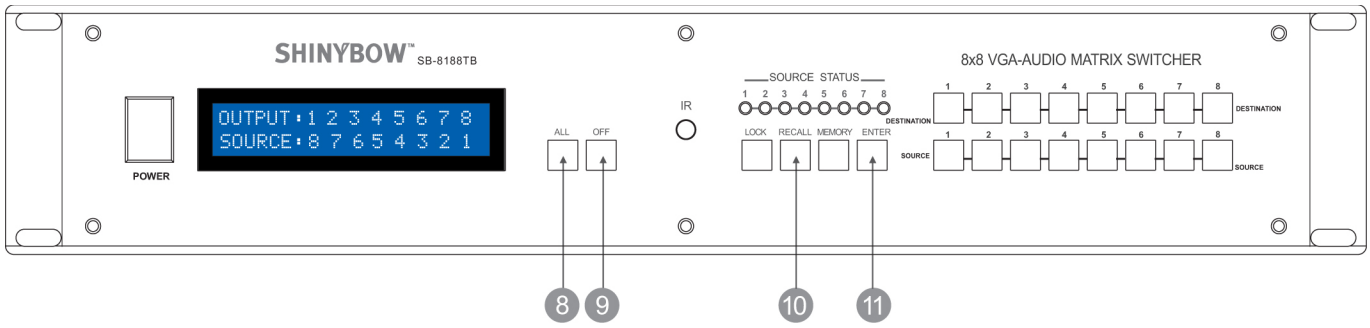
4. DESTINATION SELECT BUTTONS: Separate outputs 1 thru 8 select buttons are provided for each destination assignment. Routing can be Source to Destination or one source to multiple destinations.
Example : Press Destination 1,3,5 then press Source 2 will route Input 2 to Output 1,3,5 respectfully.

5. SOURCE SELECT BUTTONS: Separate inputs 1 thru 8 select buttons are provided each source selection.

6. IR SENSOR: The IR sensor receives IR commands from the supplied remote controller or third party IR emitter.

7. 19 INCH EAR MOUNT PAIR: Converts dest-top to 19 inch rack mount bracket (part # 1U-440L) INCLUDED. Image shows rack mount bracket attached.

FRONT PANEL



8. FUNCTION KEY - ALL



Disables (mutes) video on all destinations OR Selects the same source to all destinations.

Option 1

- Press **ALL** followed by **OFF** button. The display will show " 0 " indicating all destinations have no video selected.

Option 2

- Press **ALL** followed by Source 1 thru 8. The display will show the Source selected.
- Press **ENTER** The pre-set source selection will be assigned all destinations.

9. FUNCTION KEY - OFF



Disables (mutes) video to selected channels. Either destinations.

- Press **OFF** button followed by any Destination channel.
- Press **1 THRU 8** output destination. The display will show " 0 " for the selected channel indicating no video selected.

10. FUNCTION KEY - RECALL





The system will show previously stored presets, up to a total of 16.
Presets are stored in local memory using Source keys 1 thru 8 or Destination keys 1 thru 8 as the memory preset location.

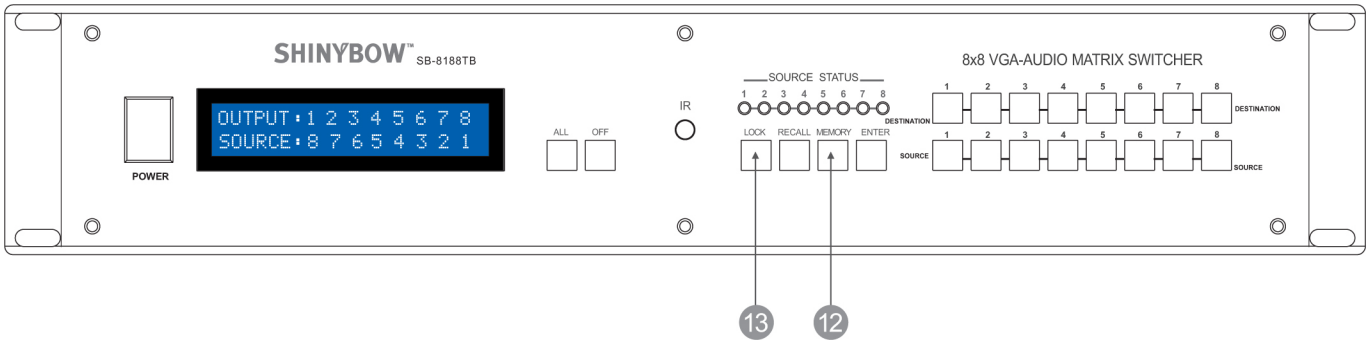
- Press **RECALL** button.
- Press **1 THRU 8** on either Source or Destination row.
- Press **ENTER** The pre-set configuration will execute.

Operation completes.

Operation will abort if no keys are pressed with 5 seconds.

11. FUNCTION KEY - ENTER: - Press **ENTER** to confirm entries.

FRONT PANEL



12. FUNCTION KEY - MEMORY



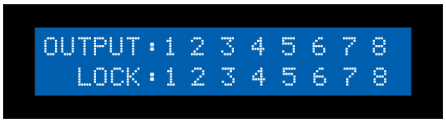


The system will show store presets, up to a total of 16.
Presets are stored in local memory using Source keys 1 thru 8 or Destination keys 1 thru 8 as the memory preset location.

- Configure desired matrices.
- Press **MEMORY** button.
- Press **1 THRU 8** on either Source or Destination row.
- Press **ENTER** to ready memory location.
- or press **MEMORY** again to cancel operation.

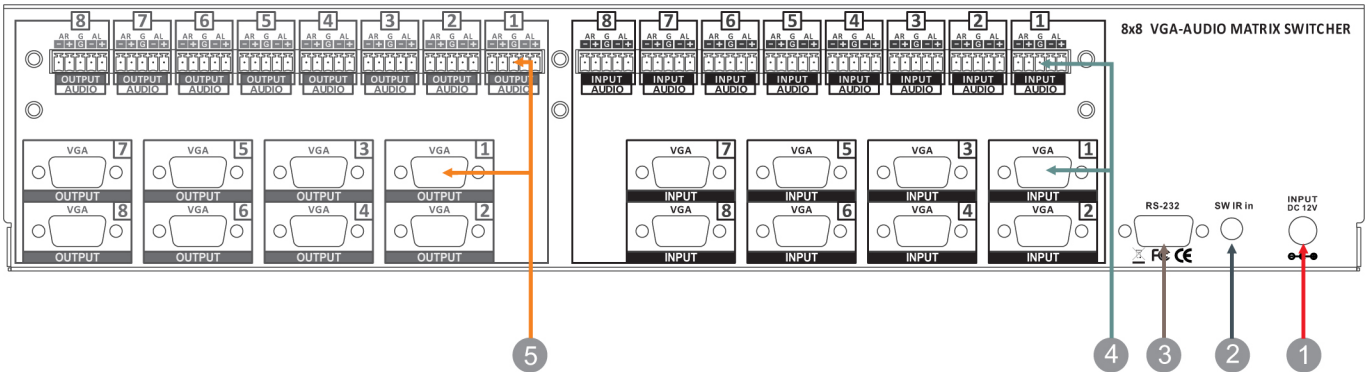
Operation completes.
Note : Operation will abort if no keys are pressed within 5 seconds.

13. FUNCTION KEY - LOCK



- Press and hold **LOCK** button for two seconds lockout the front panel.
- Press and hold **LOCK** button for two seconds to enable the front panel.

BACK PANEL



1. DC POWER INLET: The Switcher is fitted with a DC power plug-park input connector. Please ensure that the plug-park used is of an approved type and is of sufficient current carrying capacity with the correct voltage and connector polarity. 12Volt DC power supply 3A Max.



POWER JACK:
DC Jack - Inner OD Ø 2.1 mm (+)
Outside OD Ø 5.5mm (GND)
Power input -12VDC, 3A

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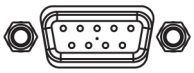
2. IR EXTERNAL IN: (EXT. IR TO CONTROL SWITCHER): Supports IR Extender to control Switcher. Extends distance maximum 300M/ ~1000 ft. When you plug the External IR extender into the switcher, the front panel IR receiver remain active.



IR EXTENDER JACK:
Female Jack

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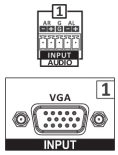
3. RS-232 CONNECTION: RS-232 control port allows for interfacing to a PC, such as a computer or touch panel control, to the switcher via this DB-9pin female connector for serial RS-232 control.



REMOTE PORT :
DB-9pin Female connector

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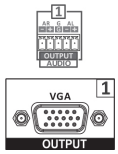
4. INPUTS - 1~8 VGA-RGBHV-AUDIO PORTS: Connects up to 8x VGA (RGBHV) & Stereo Audio player devices to 8x VGA/Audio matrix switcher outputs.



VGA-AUDIO VIA : 1x HD-15p connector, 1x TB Jack.
Note: With 1x female D-Sub HD-15F connector. 1x Female Terminal Block - 5 pin

---

5. OUTPUTS - 1~8 VGA-RGBHV-AUDIO PORTS: Connects up to 8x VGA (RGBHV) & Stereo Audio signals via 8x VGA cables to VGA monitor displays and audio speaker devices.



VGA-AUDIO VIA : 1x HD-15p connector, 1x TB Jack.
Note: With 1x female D-Sub HD-15F connector. 1x Female Terminal Block - 5 pin

REMOTE CONTROL

Before making any connections to the SB-8180LCM. Observe the following:

- Ensure the mains voltage supply matches the label on the supplied plug- Pack (+/- 10%).
- Ensure that the power switch is OFF.
- Ensure that all system grounds (earth) are connected to a common point.
- Avoid powering equipment within a system from multiple power sources that may be separated by large distances.
- Connect all audio video sources and destination equipment.
- Power up all source and destination audio-visual sources.
- For each destination output select the appropriate input source by using the front panel input 1-8 select buttons. The supplied IR remote control. Or through the RS-232 serial communications port.
- Upon power up the switcher will return to its last used setting before Powered down.

REMOTE CONTROL

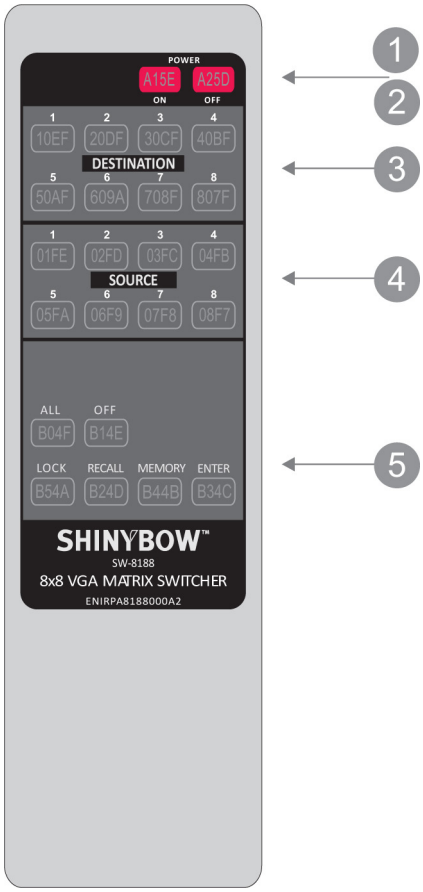
IR REMOTE CONTROL KEY :

1./2. SWITCH POWER ON or OFF:
Controller with a power ON and OFF

3. DESTINATION: 1 thru 8 OUTPUT SELECTION:
Press the destination button to select the output display channel.

4. SOURCE : 1 thru 8 INPUT SOURCE SELECTION
Press input 1~8 sources with selection button

5. FUNCTION KEY
ALL - function selection button
OFF - function selection button
EDID - function selection button
RECALL - function selection button
MEMORY - function selection button
ENTER - function selection button
LOCK - function selection button



REMOTE PROTOCOL COMMANDS

IR REMOTE CUSTOM AND DATA CODES (NEC Standard)

HOW TO CONTROL IR CODES

CUSTOM CODE : 35CA

POWER ON : 35CA A15E
POWER OFF : 35CA A25D

ALL : 35CA B04F
OFF : 35CA B14E
EDID : 35CA B748
LOCK : 35CA B54A
RECALL : 35CA B24D
MEMORY : 35CA B44B
ENTER : 35CA B34C

PRESS DESTINATION then - # PRESS SOURCE - #

DESTINATION #1 : 35CA 10EF
DESTINATION #2 : 35CA 20DF
DESTINATION #3 : 35CA 30CF
DESTINATION #4 : 35CA 40BF
DESTINATION #5 : 35CA 50AF
DESTINATION #6 : 35CA 609F
DESTINATION #7 : 35CA 708F
DESTINATION #8 : 35CA 807F

SOURCE #1 : 35CA 01FE
SOURCE #2 : 35CA 02FD
SOURCE #3 : 35CA 03FC
SOURCE #4 : 35CA 04FB
SOURCE #5 : 35CA 05FA
SOURCE #6 : 35CA 06F9
SOURCE #7 : 35CA 07F8
SOURCE #8 : 35CA 08F7

For example;
Select Destination # 1 to show Source #1~8,

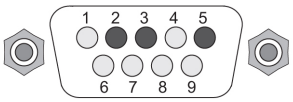
The IR Data Code list :
Destination # 1 , Source #1 35CA 10EF 35CA 01FE
Destination # 1 , Source #2 35CA 10EF 35CA 02FD
Destination # 1 , Source #3 35CA 10EF 35CA 03FC
Destination # 1 , Source #4 35CA 10EF 35CA 04FB
Destination # 1 , Source #5 35CA 10EF 35CA 05FA
Destination # 1 , Source #6 35CA 10EF 35CA 06F9
Destination # 1 , Source #7 35CA 10EF 35CA 07F8
Destination # 1 , Source #8 35CA 10EF 35CA 08F7

RS-232 SERIAL INTERFACE

RS-232 SERIAL INTERFACE CONNECT a PC or CONTROL SYSTEM. VERSION COMPATIBLE V2.0

RS-232 SERIAL INTERFACE

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



For a complete list of commands, please reference external document extended RS-232 Protocol Instruction Manual.

RS-232 PROTOCOL COMMANDS (RS-232 Control driver V2.0.1)

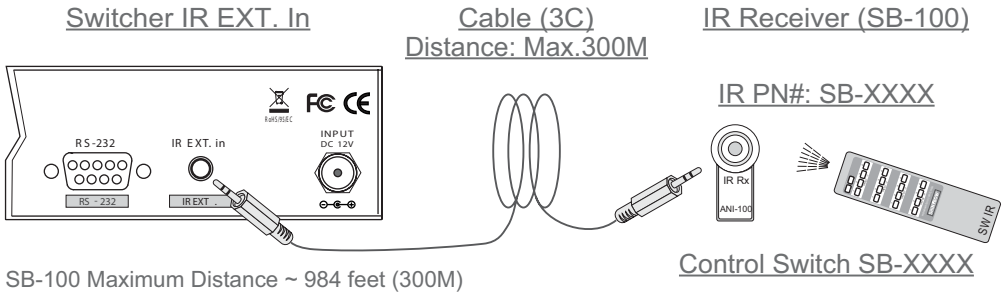
The ShinybowUSA switcher can be controlled via the RS-232 serial control port to allow for interfacing to a PC, or similar third party control system.

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.

IR EXTENDER

1. SB-100 IR 300M Receiver



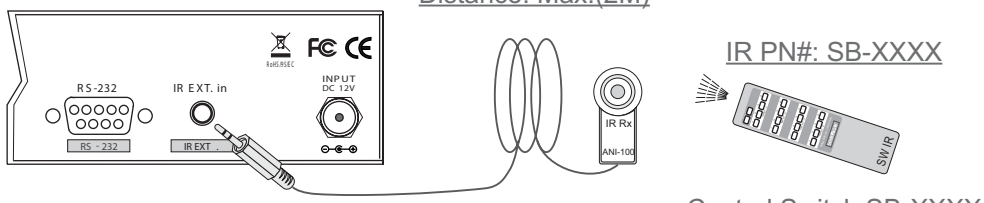


SB-100 Maximum Distance ~ 984 feet (300M)

The SB-100 IR Receiver is required when using the port “ALL in” Jack.

2. SB-100C IR 2M Receiver





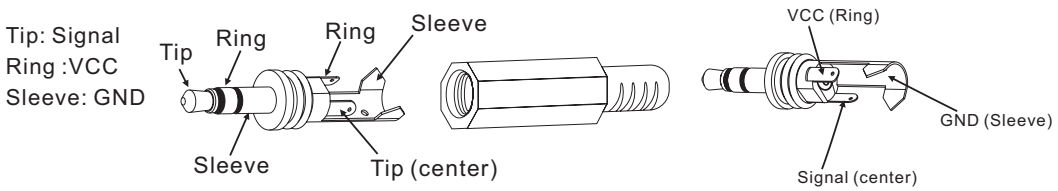
SB-100C Maximum Distance ~ 6 feet (2M)

The SB-100C IR Receiver will not function on the port “ALL in” Jack.

**** When you plug the External IR extender into the switcher, the front panel IR receiver remains active. ****

Pin configuration for IR 984 feet (300M) Extender Receiver such as SB-100 compatible

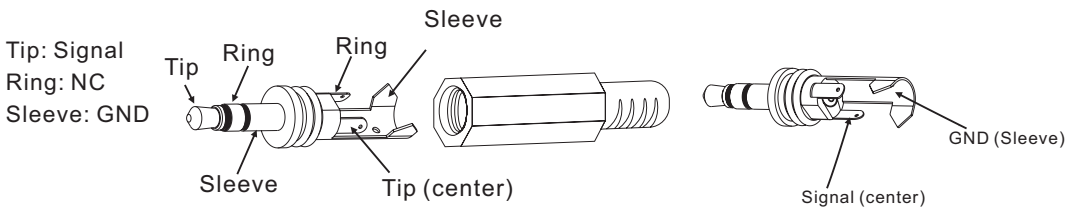




SB-100 Receiver and SB-101 Transmitter The DISTANCE maximum ~ 984 feet (300M)

Pin configuration for IR Receiver 6 feet (2M) cable such as SB-100C compatible





SB-100 Receiver and SB-101C Transmitter The DISTANCE maximum ~ 984 feet (300M)

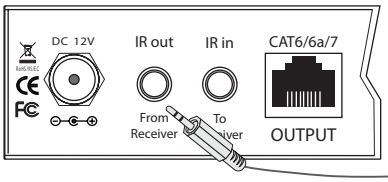
Note: *The External IR jack has voltage on the “Ring” portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

IR EXTENDER

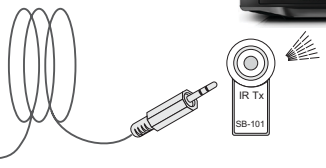
1. SB-101 IR 300M Transmitter



Device



Cable (3C)



IR Transmitter (SB-101)

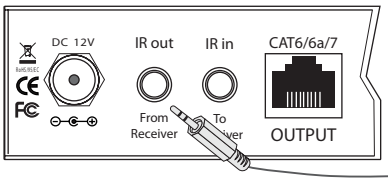


SB-101 Maximum Distance ~ 984 feet (300M)

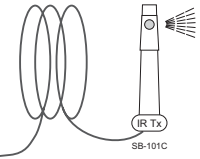
2. SB-101C IR 2M Transmitter



Device



Cable (3C)



IR Transmitter (SB-101C)



SB-101C Maximum Distance ~ 6 feet (2M)

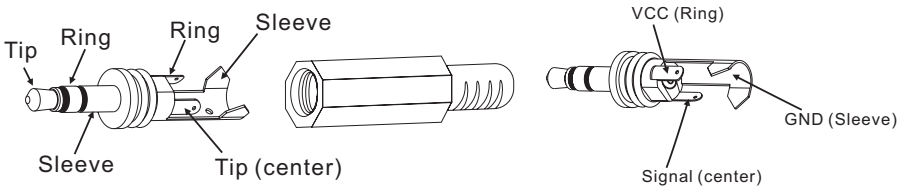
*** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ***

PIN CONFIGURATION:

SB-101 and SB-101C Transmitter Pin configuration



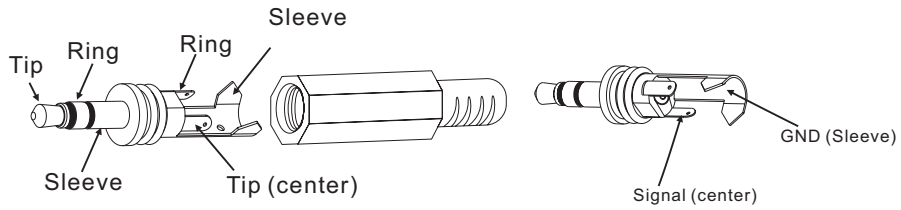
Tip: Signal
Ring :VCC
Sleeve: GND



SB-101 Maximum Distance ~ 984 feet (300M)



Tip: Signal
Ring: NC
Sleeve: GND



SB-101C Maximum Distance ~ 6 feet (2M)

Note: *The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

TYPICAL APPLICATION

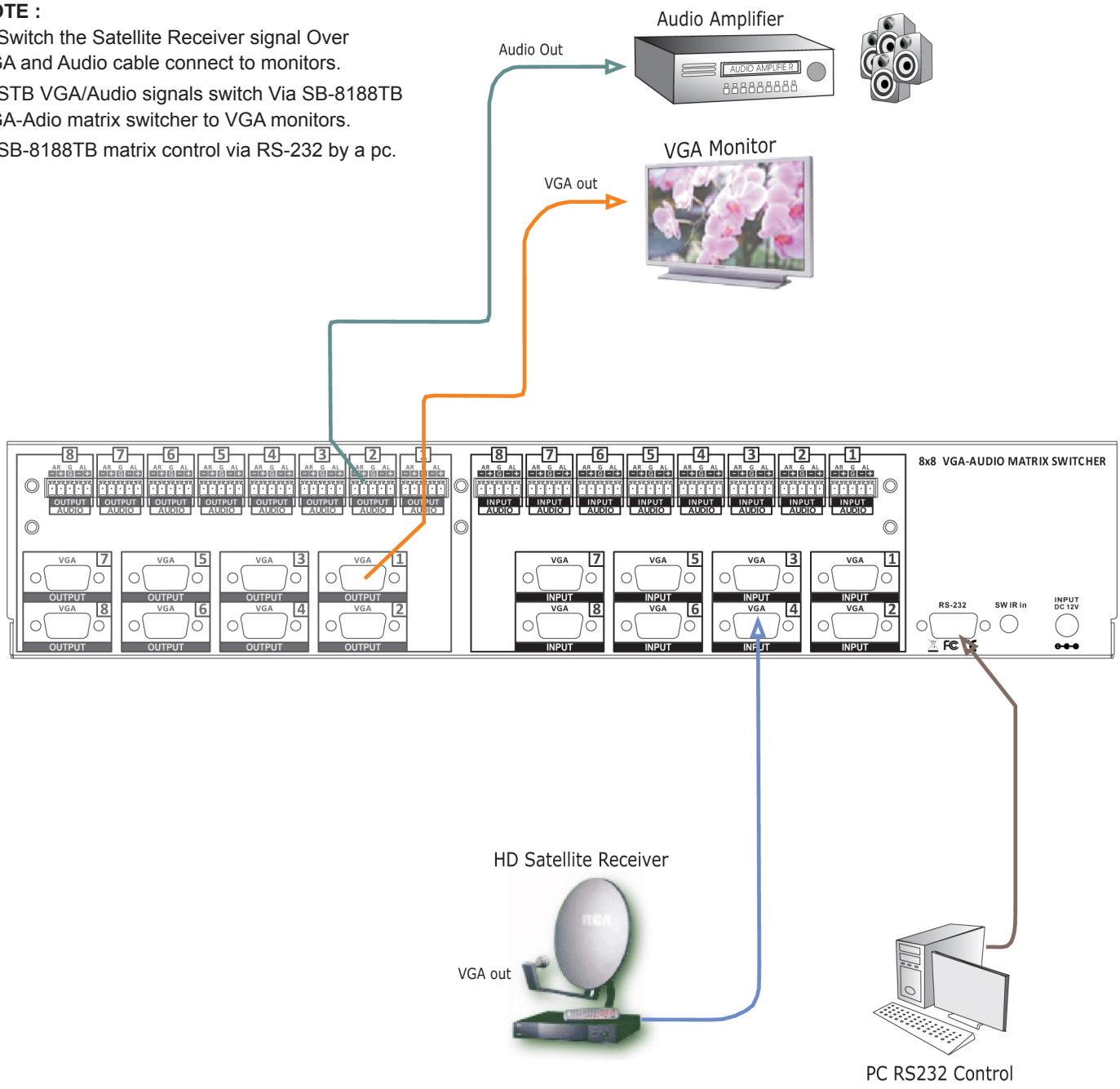
INSTALLING DIAGRAM 8X8 VGA-AUDIO MATRIX SWITCHER

SB-8188TB

Sample connection using 8x8 VGA-AUDIO Matrix Switcher. Switches signals to VGA-Audio Monitor Displays via VGA & Audio cable with SB-8188TB and Audio Amplifier to speakers and signals from Satellite Receiver.

NOTE :

1. Switch the Satellite Receiver signal Over VGA and Audio cable connect to monitors.
2. STB VGA/Audio signals switch Via SB-8188TB VGA-Adio matrix switcher to VGA monitors.
3. SB-8188TB matrix control via RS-232 by a pc.



Supports SB-8188TB VGA and Stereo Audio outputs via VGA and Stereo Audio cable.

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