

INSTRUCTION MANUAL

SB-5548LCM

8x8 Composite Video Stereo/Digital Audio 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.

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Composite Video Stereo/Digital Audio Matrix Routing Switcher Series

Thank you for purchasing the SB-5548LCM Composite Video Stereo/Digital Audio Matrix Routing 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 of one of the most innovative 8x8 AV (Composite Video/Audio) matrix switching products on the market today. The SB-5548LCM is a true matrix routing switcher for AV (Composite & Stereo Audio) signals. Full support of any NTSC or PAL Composite Video & Stereo Audio system. It has (8) individual Composite Video and Stereo Audio inputs with (8) individual Composite Video and Stereo Audio 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 video audio input and output cables. The SB-5548LCM is useful for matrix signals from composite video and stereo audio source devices (such as: VCRs, Camcorders, Video Game Consoles, Video CDs, DVDs, Satellite Receivers, CAT5 Set Top Boxes, etc.) to Composite Video/Audio destination devices (such as: LCD TV, HDTV, Plasma displays, Projectors, etc.). Selection of an inputs can be made via the front panel push buttons or an infrared remote control or with RS-232 control by a computer.

PACKAGE CONTENTS

- SB-5548LCM 8x8 Matrix Switcher
- IR Remote Control
- RS-232 Cable
- Rack Mounts
- SB-100 IR Extender Receiver Set
- Control Software (All Windows Operating Systems)
- Users Guide
- AC/DC Adapter: 12VDC@2A, Universal Type 50/60Hz, 100~230 VAC
- *Optional: SB-100C IR Extender Receiver Cable (6.5ft (2M))*

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.

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FEATURES & SPECIFICATIONS

FEATURES

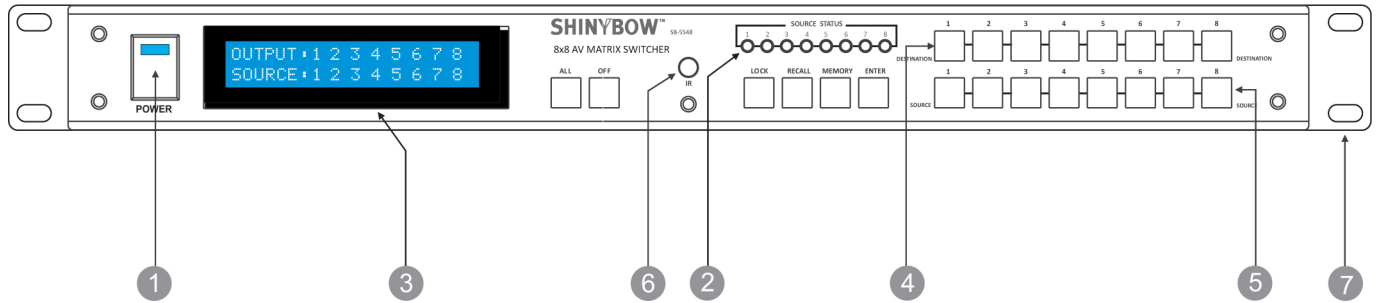
- Supports (8) Inputs to (8) Outputs A/V (Composite Video-Audio) Matrix Switcher
- Input/Output Signals: Composite Video & Stereo Audio (AR/AL)
- Higher video bandwidth 450MHz each signal path
- Channel selection buttons on front panel
- Composite video supports NTSC or PAL TV systems
- Compatible with all Composite Video devices, Plasma TV displays and HDTVs
- Supports RS-232 serial interface protocol command list
- PC RS-232 control drive compatible with Win-95/98/2000/XP
- Various User Interface Controls:
 - Included Windows based control software for desktop or NB control via RS-232 port
 - Manual control via front panel buttons
 - IR remote control
- Supports desktop with ear mounts and 19 inch 1U rack mountable type panel
- Power supply DC12Volt, Universal type switch 100~230VAC, 50/60Hz

SPECIFICATIONS

- **Type of Switcher:** (8) In to (8) Out, A/V (Composite Video-Audio) Matrix Switcher
- **I/O Signals:**
 - Video: Composite Video 0.5~1.0Vpp, 75Ohms, RCA (Yellow)
 - Stereo Audio (AR/AL) via (2) RCA connectors (Red/white)
- **Video Bandwidth:** 450MHz (-3dB), 200mVpp
- **Video Supported:** Higher resolution formats
- **Audio Supported:** Stereo Audio (AR/AL)
- **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 0.1dB gain flatness
- **Chassis Material:** Metal
- **Dimensions (WxDxH):** 17.32 x 7.87 x 1.73 in (440x200x44mm)
- **Weight:** 5.5 lb (Unit only) / 7.9 lb (Net)
- **Safety Approvals:** CE, FCC, RoHS (2002/ 95 / EC)
- **Power Supply:** DC12V / 2A (consumption 1250mA Max), Uses Universal Switch Type 50/60Hz, 100~230 VAC

FRONT PANEL

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 respectively.

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 desk-top to 19 inch rack mount bracket (part # 1U-440L) INCLUDED. Image shows rack mount bracket attached.

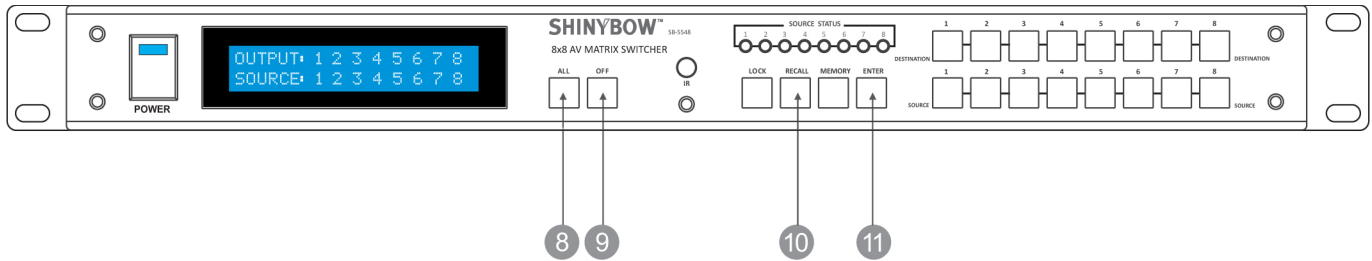
CONNECTING THE HARDWARE

Please study the panel drawings and become familiar with the signal input-output power requirements plus any controls present. Before using the switcher, please take the time to make certain that the device you wish to connect to its inputs is functioning properly in all respects. Verify that the video and audio signals are present and are being displayed properly on a suitable device.

If all is well, connect the appropriate cables between the output of the device you wish to distribute to output(s) of the switcher to the various devices you wish to feed a signal to. Lastly, connect the AC to DC adaptor, connect the DC connector to the switcher first and then plug the adaptor into a functional AC outlet.

FRONT PANEL

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 and assign that source to all destinations.
- Press **ENTER**. The pre-set source selection will be assigned all destinations.

9. FUNCTION KEY - OFF:



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

- Press **OFF** button followed by any Source or Destination channel.
- Press **1 THRU 8** input source or **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.

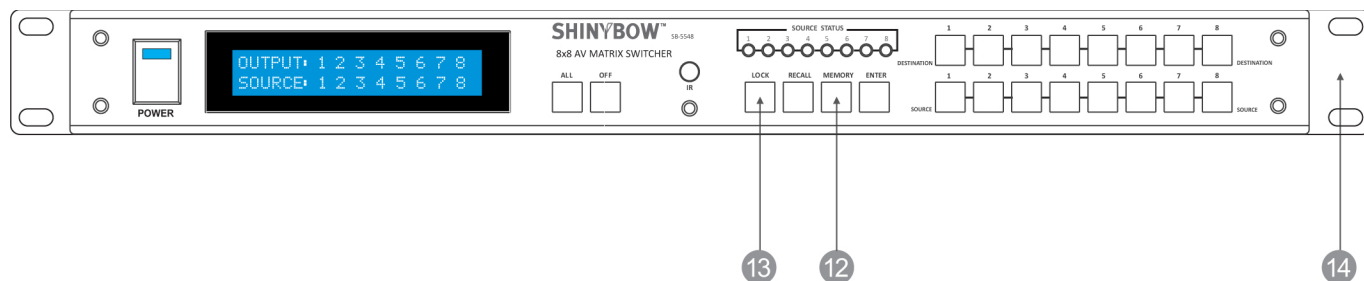
Operation completes.

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

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

FRONT PANEL

FRONT PANEL



12. FUNCTION KEY - MEMORY:



The system will show 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.

- 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:

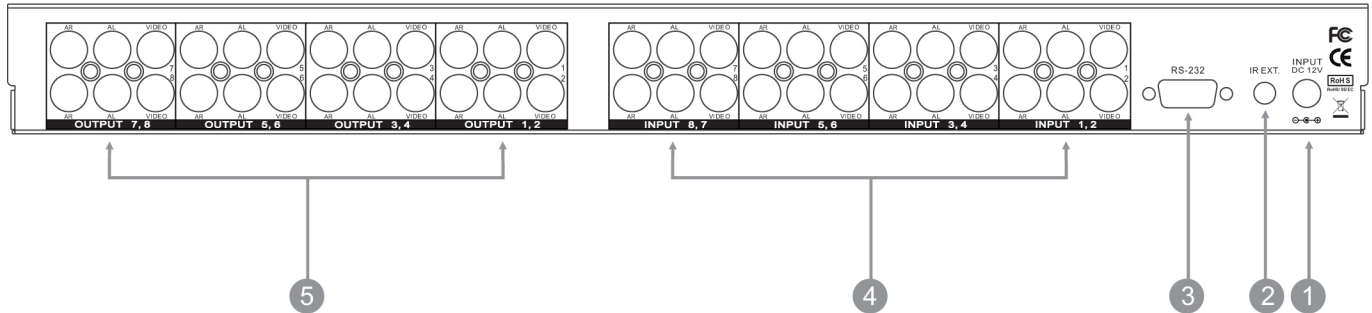


- Press and hold **LOCK** button for two seconds lockout the front panel.
- Press and hold **LOCK** button for two seconds to enable front panel.

14. 19 INCH EAR MOUNT PAIR: Converts desktop to 19 inch rack mount. Bracket (part # 1U-440L) INCLUDED. Image shows rack mount bracket attached.

BACK PANEL

BACK PANEL



1. DC POWER INLET: The switcher is fitted with a DC power plug input connector. Please ensure that the plug used is of an approved type and is of sufficient current carrying capacity with the correct voltage and connector polarity. 12Volt DC power supply 2A Max.



POWER JACK:

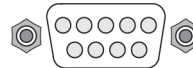
DC Jack - Inner OD Ø 2.1mm (+)
Outside OD Ø 5.5mm (GND)
Power input -12VDC, 2A

2. IR EXTENDER CONTROL: Supports one IR Extender (IR input). Extends a maximum distance of up to ~1000 ft/300M.



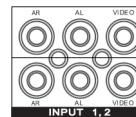
IR EXTENDER JACK: Female Jack - inner OD Ø 3.5mm

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 the DB-9pin female connector for serial RS-232 control.



REMOTE PORT: DB-9pin female connector

4. INPUTS-1~8 COMPOSITE/AUDIO (AR/AL): Connects a Composite Video and Stereo Audio (AR/AL) signal source device to the 8x8 matrix switcher.

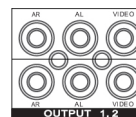


Composite Video Audio via (3) RCAs
Note: With (3) RCA female connectors.

Input 1~8 port source signals:

- Composite Video/Stereo Audio, (3) RCA Connectors

5. OUTPUTS-1~8 COMPOSITE/AUDIO (AR/AL): Connects a Composite Video and Stereo Audio (AR/AL) signal direct to the female RCA connector. This connector supports Composite Video and Stereo Audio display devices.



Composite Video Audio via (3) RCAs
Note: With (3) RCA female connectors.

Output 1~8 display port signals:

- Composite Video and Stereo Audio, (3) RCA Connectors

REMOTE CONTROL

Before making any connections to the SB-5548LCM Observe the following:

- Ensure the main 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 select buttons. The supplied IR remote control. Or through the RS-232 serial communications port.
- Upon powering up the switcher, it will return to its last used setting before being powered down.

REMOTE CONTROL

IR REMOTE CONTROL KEY :

IR REMOTE : SW-5548

IR PCB : RA-02

1. & 2. SWITCH POWER ON or OFF:

Power ON and OFF

3. DESTINATION : 1 thru 8 OUTPUT SELECTION:

Destination button to select the output display channel

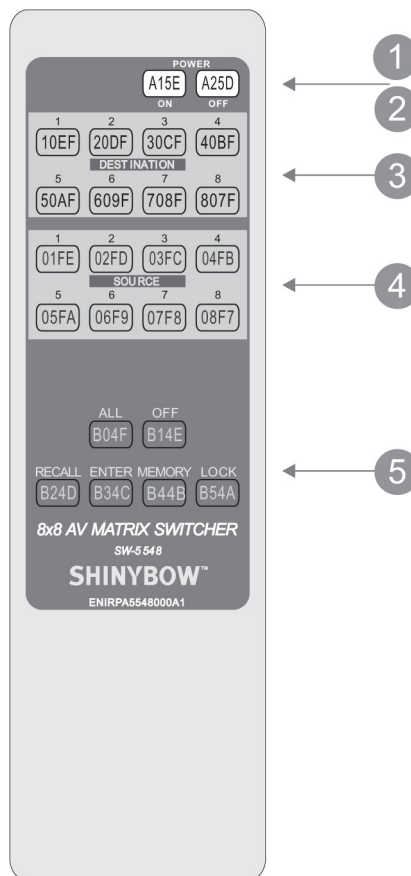
4. SOURCE : 1 thru 8 INPUT SOURCE SELECTION:

Input 1~8 source selection buttons

5. FUNCTION KEY: Function selection buttons

ALL OFF RECALL
DEMO or ENTER LOCK

MEMORY



REMOTE PROTOCOL COMMANDS

IR REMOTE CUSTOM AND DATA CODES (NEC Standard)

HOW TO SETUP IR CODES :

POWER ON: 2CD3 A15E
POWER OFF: 2CD3 A25D
ALL: 2CD3 B04F
OFF: 2CD3 B14E

CUSTOM CODE : 2CD3

LOCK: 2CD3 B54A
RECALL: 2CD3 B24D
MEMORY: 2CD3 B44B
ENTER: 2CD3 B34C

PRESS TV DESTINATION - # then PRESS SOURCE -

DESTINATION #1 : 2CD3 10EF	SOURCE #1 : 2CD3 01FE
DESTINATION #2 : 2CD3 20DF	SOURCE #2 : 2CD3 02FD
DESTINATION #3 : 2CD3 30CF	SOURCE #3 : 2CD3 03FC
DESTINATION #4 : 2CD3 40BF	SOURCE #4 : 2CD3 04FB
DESTINATION #5 : 2CD3 50AF	SOURCE #5 : 2CD3 05FA
DESTINATION #6 : 2CD3 609F	SOURCE #6 : 2CD3 06F9
DESTINATION #7 : 2CD3 708F	SOURCE #7 : 2CD3 07F8
DESTINATION #8 : 2CD3 807F	SOURCE #8 : 2CD3 08F7

For Example:

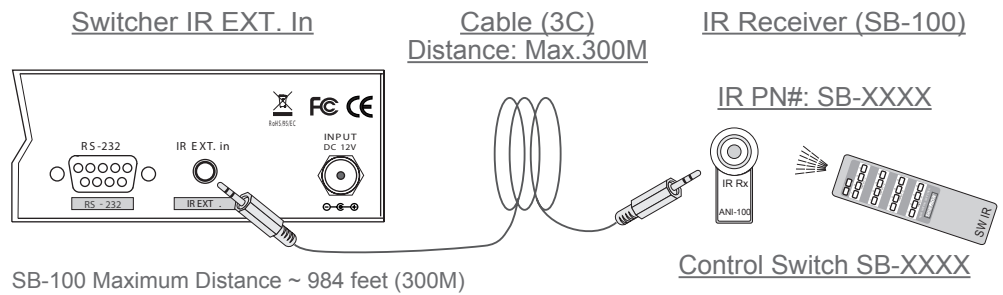
Select Destination # 1 to show Source #1~8,

The IR Data Code list when press Destination # then press Source

Press Destination # 1 & Source #1 2CD3 01FE 2CD3 01FE
Press Destination # 1 & Source #2 2CD3 01FE 2CD3 02FD
Press Destination # 1 & Source #3 2CD3 01FE 2CD3 03FC
Press Destination # 1 & Source #4 2CD3 01FE 2CD3 04FB
Press Destination # 1 & Source #5 2CD3 01FE 2CD3 05FA
Press Destination # 1 & Source #6 2CD3 01FE 2CD3 06F9
Press Destination # 1 & Source #7 2CD3 01FE 2CD3 07F8
Press Destination # 1 & Source #8 2CD3 01FE 2CD3 08F7

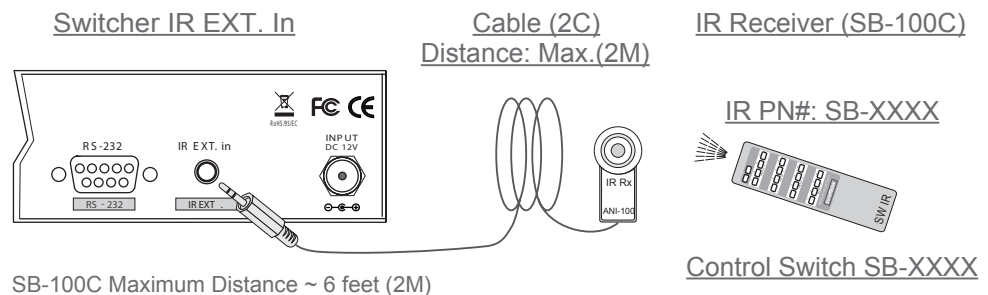
IR EXTENDER

1. SB-100 IR 300M Receiver



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

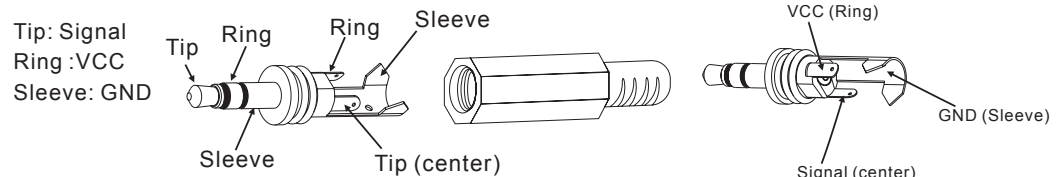
2. SB-100C IR 2M Receiver



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

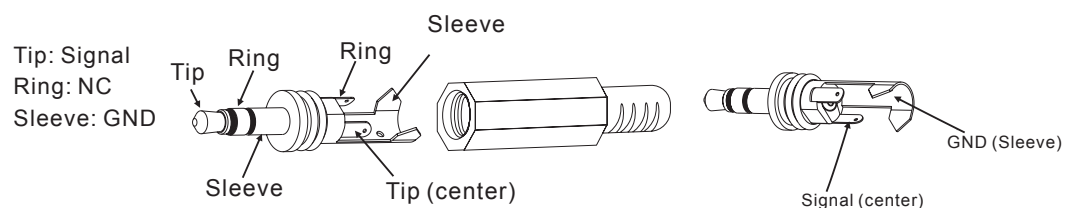
*** When you plug the External IR extender into the switcher, the front panel IR receiver remains active. ***

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.

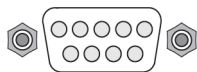
The frequency range of the IR emitter and receivers is 38khz.

RS-232 SERIAL INTERFACE

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

RS-232 SERIAL CONNECT

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



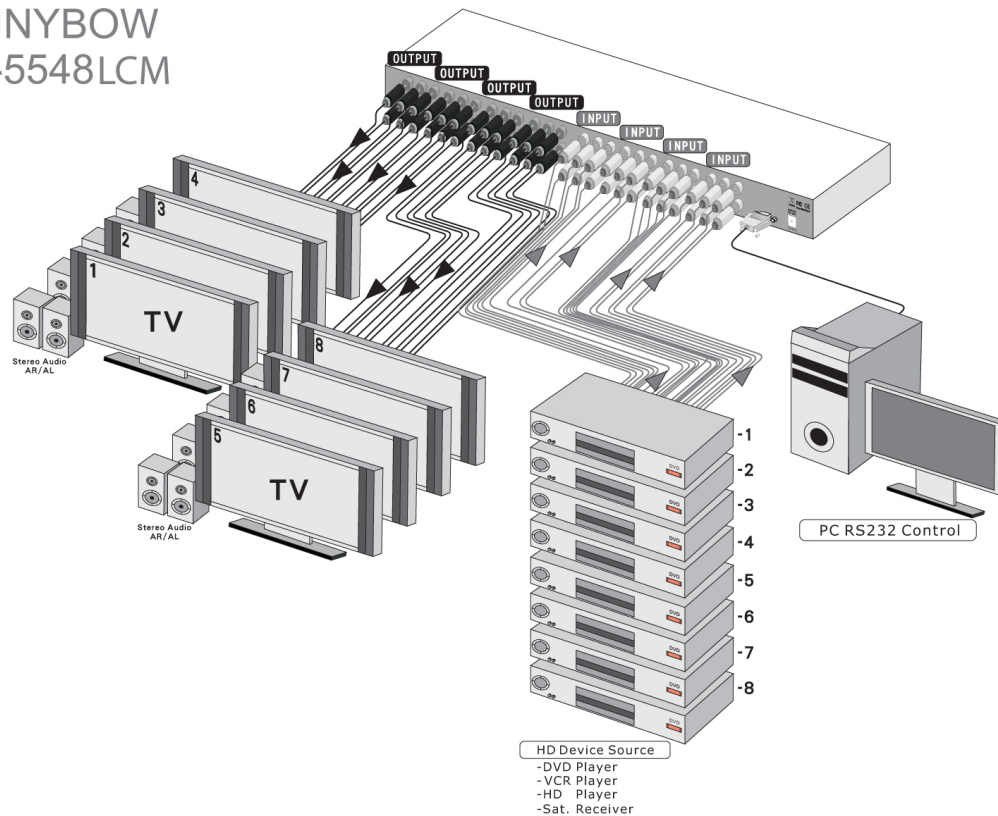
The ShinybowUSA switcher can be controlled via the RS-232 serial control port to allow for interfacing to a PC, or similar third party control system.

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.

TYPICAL APPLICATION

8X A/V (COMPOSITE VIDEO) SOURCES TO 8X A/V OUTPUT MATRIX SWITCHER

SHINYBOW
SB-5548LCM



INSTALLING

CONTROL PORTS:

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

INPUTS 1 - 8 PORT HD SOURCE SIGNALS:

COMPOSITE VIDEO - Composite Video, connector with RCA
AUDIO - Stereo Audio (AR/AL), connector with RCA

OUTPUT 1 - 8 PORT HDTV DISPLAY SIGNALS:

COMPOSITE VIDEO - Composite Video, connector with RCA
AUDIO - Stereo Audio (AR/AL), connector with RCA

SB-5548LCM SUPPORTS (8) COMPOSITE VIDEO AND STEREO AUDIO INPUTS TO
(8) COMPOSITE VIDEO AND STEREO AUDIO OUTPUTS.
SUPPORTS CONTROL VIA IR & RS-232.

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