INSTRUCTION MANUAL

SB-8188CT

8x8 VGA HDTV Over Single CAT5 w/ Stereo Analog 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.

TABLE OF CONTENTS

8x8 VGA-AUDIO Over CAT5 Matrix Switcher Series

Thank you for purchasing the SB-8188CT VGA (RGBHV) Over CAT5/6 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 VGA (RGBHV)/Stereo Audio (AR/AL) 8x8 matrix switching products on the market today. The SB-8188CT is a true Matrix routing switcher for VGA (RGBHV)/Stereo Audio (AR/AL) signals. It has (8) VGA (RGBHV) / Stereo Audio (AR/AL) inputs with (8) individual CAT5/5e/6/7 VGA (RGBHV)/Audio outputs and a local Preview Output. 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 category(RJ-45) cables. The SB-8188CT 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 CAT5 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-8188CT 8x8 Matrix Switcher
- IR Remote Control
- 19 inch 2D (2U) ear mount pair
- RS-232 DRV package
- Users Guide
- AC/DC Adapter: 12VDC, 2A 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

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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

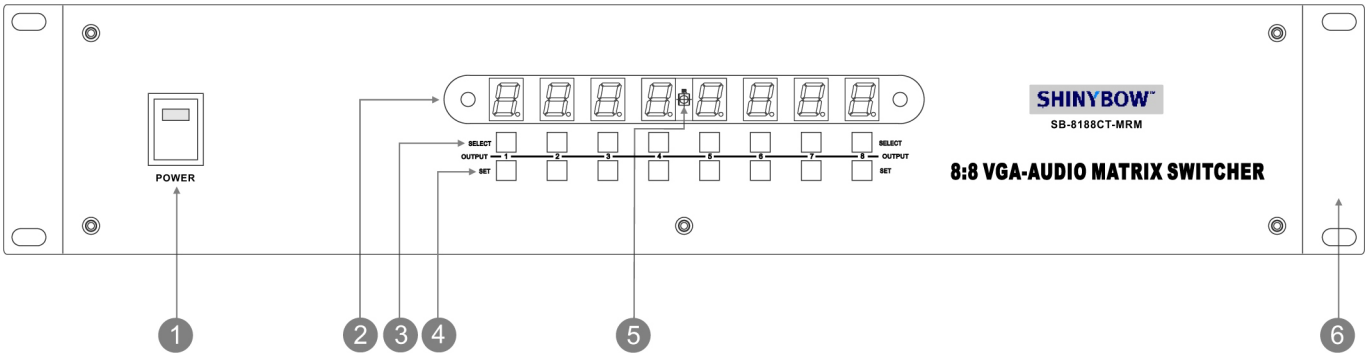
- Supports 8x Inputs VGA+Audio to 8x CAT5 Outputs
- Input: 8x VGA(RGBHV) DB-15 and 3.5mm Stereo Audio
- + Preview Output: 1x DB-15 and 3.5mm Stereo Audio
- Output: 8x RJ-45 (VGA or RGBHV) and Stereo Audio
- Output signals via CAT5/CAT6 category cable to VGA Monitor displays
- Higher Video Bandwidth 325MB each path R,G,B signals
- Supports HD high definition resolutions VGA (640x480) up to 1000ft, SVGA (800x600) up to 600ft, XGA (1024x768) up to 450ft, UXGA (1600x1200) up to 300ft, WUXGA (1920x1200) up to 100ft
- RS-232 Serial interface via ethernet control (optional)
- Compatible with all VGA video monitor devices, Plasma display and Projectors
- Supports RS-232 serial interface protocol commands list
- RS-232 PC control 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 button
  - IR remote control
- Supports desktop with ear mount and 19 inch rack mountable type panel
- Power supply DC12Volt, Universal Type Switch 100~230VAC, 50/60Hz

SPECIFICATIONS

- **Type of Switcher:** (8) In to (8) Out, VGA (RGBHV)-Audio
- **Input ports: Group:**
  - 1x VGA (RGBHV) via 1x HD-15p VGA female connector
  - 1x Stereo Audio (AR/AL), Via 1x Ø3.5mm ear phone female jack
- **Output ports: Group:**
  - 1x CAT5 : VGA (RGBHV) & Audio Via 1x RJ45 CAT5 connector
- **Video Bandwidth:** 325MHz (-3db), 200mVp-p
- **Video Supported:** HD Higher resolution formats VGA (640x480) up to 1000ft, SVGA (800x600) up to 600ft, XGA (1024x768) up to 450ft, UXGA (1600x1200) up to 300ft, WUXGA (1920x1200) up to 100ft
- **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:** 3.95 Kgs / 6.58 lb
- **Safety Approvals:** CE, FCC, RoHS (2002/95/EC)
- **Power Supply:** DC12V / 2A (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. OUTPUT SOURCES STATUS LED DISPLAY: Output channel 1 to 8 show from LED display illuminates red to indicate that a video source is present on that input.

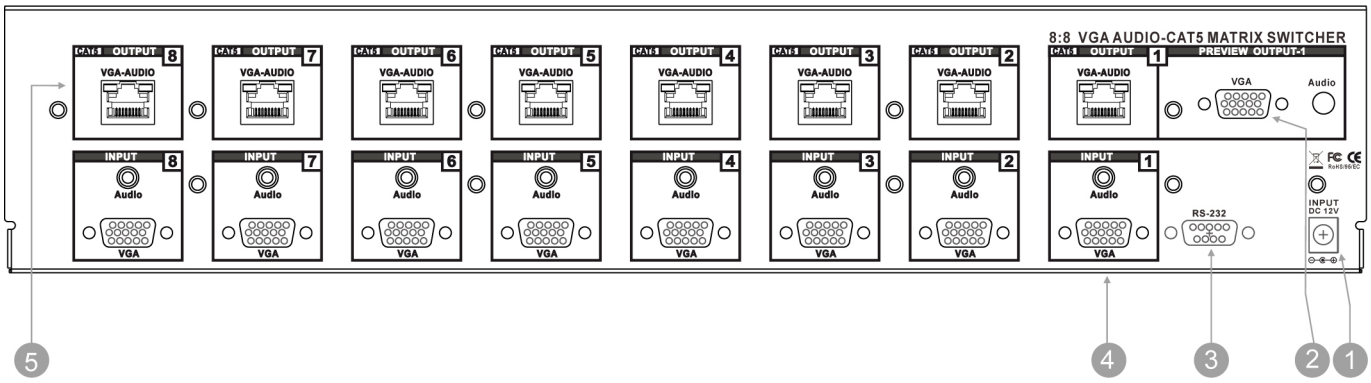
3. INPUT SOURCES SELECT BUTTONS: A separate output-1 ~ 8 source select buttons are provided for each destination. Select sources are 1~8 VGA-Audio channels

4. SOURCES SETUP BUTTONS: Setup the input sources 1 ~ 8 channel

5. IR SENSOR: The IR sensor receives IR commands from the supplied remote controller.

6. 19 INCH EAR MOUNT PAIR: 19 inch 2U (2D) high case ear mount pair. Part number : 2U-440L

BACK PANEL



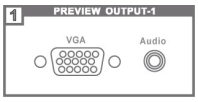
1. DC POWER INLET: The switcher is fitted with a DC power plug input connector. Please ensure that the plug used is of an approved type and is of sufficient current carrying capacity with the correct voltage and connector polarity. 12Volt DC power supply 3A Max.



POWER JACK:
DC Jack - Inner OD Ø 2.1 mm (+)
Outside OD Ø 5.5mm (GND)
Power input -12VDC, 3A
Switcher power supply use universal part number TA 007

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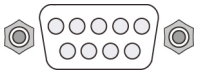
2. OUTPUT - 1 PREVIEW: Output Preview shows same VGA / Audio source as the output-1 signal.



VGA (RGBHV) Via 1x HD-15p connector
Stereo Audio (AR/AL) Via 1x Ø3.5mm ear phone jack connector.
Note: With 2x female connectors

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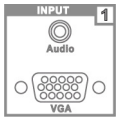
3. RS-232 CONNECTION: RS-232 control port allows for interfacing to a PC, such as a computer or touch panel control, to the switcher via this DB-9pin female connector for serial RS-232 control.



REMOTE PORT : DB-9pin Female connector

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4. INPUT - 1~8 VGA-RGBHV-AUDIO PORTS: Connects upto 8x VGA (RGBHV) / Stereo Audio source devices upto 8x CAT5 matrix switcher outputs.
Input 1~8 port source signals :
- VGA (RGBHV), 1x HD-15p Connectors
- Stereo Audio(AR/AL), 1x O3.5mm ear phone jack.

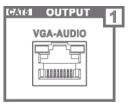


VGA (RGBHV) Via 1x HD-15p connector
Stereo Audio(AR/AL) Via 1x O3.5mm ear phone jack connector.
Note: With 2x female connectors

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5. OUTPUTS - 1~8 CAT5 (VGA+AUDIO) PORTS: Connects upto 8x VGA (RGBHV) / Stereo Audio source devices upto 8x CAT5 matrix switcher outputs.

For use with any combination of ShinybowUSA receivers SB-6110R, SB-6210R, SB-6310R.



OUTPUT 1~8 CAT5 PORT SIGNALS :
- CAT5 VGA (RGBHV) + Audio

Note: With 1x CAT5 RJ45 connector.

EXAMPLE & UNIT INFORMATION

EXP. : HOW TO SWITCH CH-08 WHEN WORKING ON CH-01: Please press < Select > push button till CH-08, then press < SET > push button to confirm.

PS: If the < SET > push button is not pressed to confirm within 1 second, the LED display will flash five times and return back to CH-01.

OPERATING THE UNIT

Once you have connected the switcher as described above, you must be certain that the inputs are being fed appropriate signals and are not suffering from signal loss due to cabling problems or problems with the source device.

If the input signals to the switcher are appropriate, 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 the switcher.

POWER AND CONNECTIONS

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet. The OFF state for this unit is called standby mode. In standby mode the unit is designed to consume a reduced quantity of power compared to normal operating modes.

When not using the unit for a long period of time. Insure that the AC power cord is disconnected from the wall outlet. The AC wall outlet should be installed near to the unit and be easily accessible. Do not plug in or attempt to operate an obviously damaged unit

CONNECTING THE HARDWARE

Please study the panel drawings below 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 carious 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.

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:

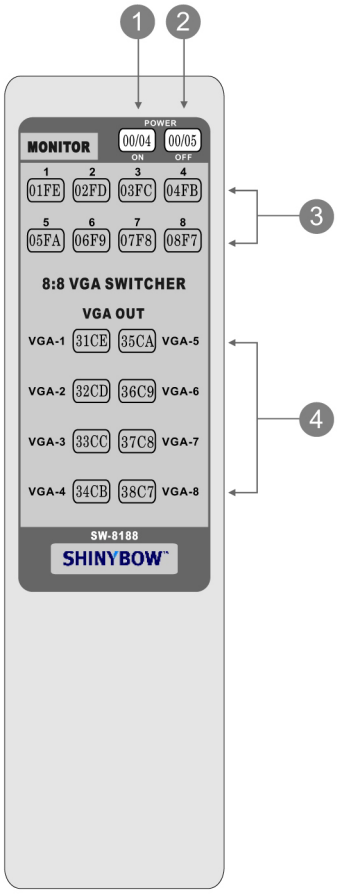
Controller with a power ON and OFF

3. INPUT 1~8 VGA MONITOR INPUTS SELECTION:

Input - 1 : CAT5 connect to VGA+Audio Display / Monitor
Input - 2 : CAT5 connect to VGA+Audio Display / Monitor
Input - 3 : CAT5 connect to VGA+Audio Display / Monitor
Input - 4 : CAT5 connect to VGA+Audio Display / Monitor
Input - 5 : CAT5 connect to VGA+Audio Display / Monitor
Input - 6 : CAT5 connect to VGA+Audio Display / Monitor
Input - 7 : CAT5 connect to VGA+Audio Display / Monitor
Input - 8 : CAT5 connect to VGA+Audio Display / Monitor

4. OUTPUT 1~8 VGA SOURCES OUTPUT SETUP:

Output -1 : VGA-1 VGA+Audio Signal from source device
Output -2 : VGA-2 VGA+Audio Signal from source device
Output -3 : VGA-3 VGA+Audio Signal from source device
Output -4 : VGA-4 VGA+Audio Signal from source device
Output -5 : VGA-5 VGA+Audio Signal from source device
Output -6 : VGA-6 VGA+Audio Signal from source device
Output -7 : VGA-7 VGA+Audio Signal from source device
Output -8 : VGA-8 VGA+Audio Signal from source device



REMOTE PROTOCOL COMMANDS

IR REMOTE CUSTOM AND DATA CODES (NEC Standard)

HOW TO CONTROL IR CODES

POWER ON : 00FF 04FB
POWER OFF : 00FF 05FA

Monitor IN / VGA Sources OUT

INPUT#1 / OUTPUT#1 : 01FE 31CE
INPUT#1 / OUTPUT#2 : 01FE 32CD
INPUT#1 / OUTPUT#3 : 01FE 33CC
INPUT#1 / OUTPUT#4 : 01FE 34CB
INPUT#1 / OUTPUT#5 : 01FE 35CA
INPUT#1 / OUTPUT#6 : 01FE 36C9
INPUT#1 / OUTPUT#7 : 01FE 37C8
INPUT#1 / OUTPUT#8 : 01FE 38C7

INPUT#2 / OUTPUT#1 : 02FD 31CE
INPUT#2 / OUTPUT#2 : 02FD 32CD
INPUT#2 / OUTPUT#3 : 02FD 33CC
INPUT#2 / OUTPUT#4 : 02FD 34CB
INPUT#2 / OUTPUT#5 : 02FD 35CA
INPUT#2 / OUTPUT#6 : 02FD 36C9
INPUT#2 / OUTPUT#7 : 02FD 37C8
INPUT#2 / OUTPUT#8 : 02FD 38C7

INPUT#3 / OUTPUT#1 : 03FC 31CE
INPUT#3 / OUTPUT#2 : 03FC 32CD
INPUT#3 / OUTPUT#3 : 03FC 33CC
INPUT#3 / OUTPUT#4 : 03FC 34CB
INPUT#3 / OUTPUT#5 : 03FC 35CA
INPUT#3 / OUTPUT#6 : 03FC 36C9
INPUT#3 / OUTPUT#7 : 03FC 37C8
INPUT#3 / OUTPUT#8 : 03FC 38C7

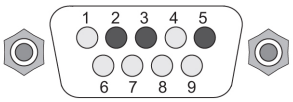
INPUT#4 / OUTPUT#1 : 04FB 31CE
INPUT#4 / OUTPUT#2 : 04FB 32CD
INPUT#4 / OUTPUT#3 : 04FB 33CC
INPUT#4 / OUTPUT#4 : 04FB 34CB
INPUT#4 / OUTPUT#5 : 04FB 35CA
INPUT#4 / OUTPUT#6 : 04FB 36C9
INPUT#4 / OUTPUT#7 : 04FB 37C8
INPUT#4 / OUTPUT#8 : 04FB 38C7

RS-232 SERIAL INTERFACE

RS-232

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



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.

The unit does not send out a message when a value is changed from the front panel or by IR control. If the unit needs to be controlled via the front panel in addition to the RS-232 control, you should regularly poll the unit status to ensure the control system accurately reflects the current settings.

PROTOCOL COMMANDS

To Switch Inputs to Outputs

SBI0XO0Y - Where X is Input Number (1-8) and Y is Output Number (1-8)

Unit will respond with

SBUD0XOY - Where X is Input Number (1-8) and Y is Output Number (1-8)

Example: Send Input 4 to Output 2
SBI04O02 - Send
SBUD04O2 - Rcvd

MORE STUFF FOR SB-8188CT

Note: Turning the unit System Power Off over RS-232 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 RS-232 it will continue to accept and act upon switching commands. For example, if the unit is in the off mode (via RS-232) 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

SBSYSMOF - Put system into Standby (Soft Power Off)
SBSYSMON - 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 - Send
SBALOFAK - Rcvd

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 RS-232
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

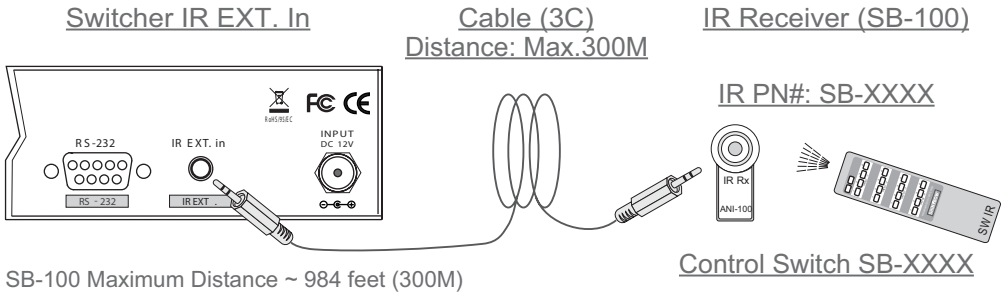
SBRSTACK - Unit has reset each Output to Input 1

Example: Reset all outputs to Input 1
SBALLRST - Send
SBRSTACK - Rcvd

IR EXTENDER

1. SB-100 IR 300M Receiver



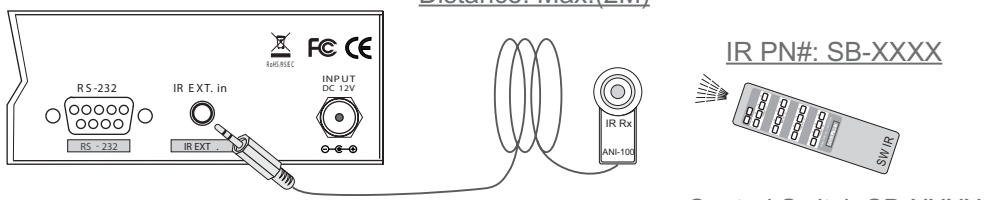


SB-100 Maximum Distance ~ 984 feet (300M)

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

2. SB-100C IR 2M Receiver





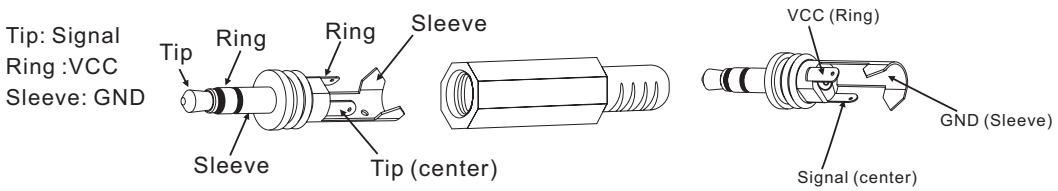
SB-100C Maximum Distance ~ 6 feet (2M)

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

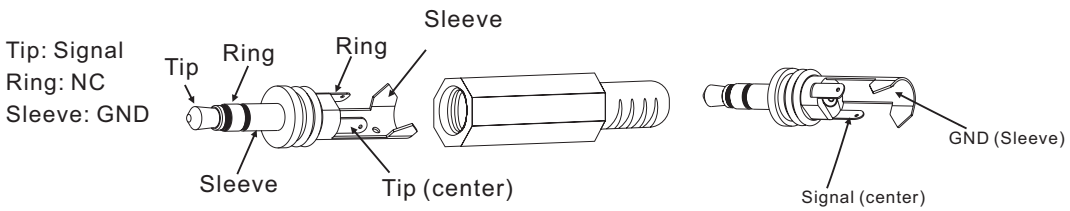




SB-100 Receiver and SB-101 Transmitter The DISTANCE maximum ~ 984 feet (300M)

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)

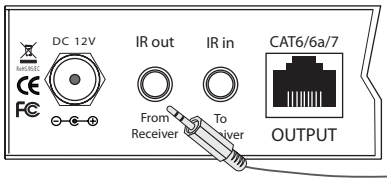
Note: *The External IR jack has voltage on the “Ring” portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

IR EXTENDER

1. SB-101 IR 300M Transmitter

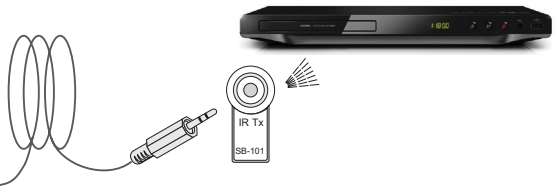


Device



Cable (3C)

IR Transmitter (SB-101)

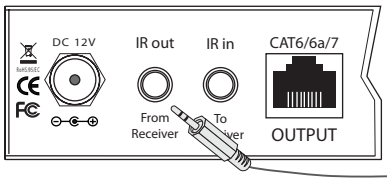


SB-101 Maximum Distance ~ 984 feet (300M)

2. SB-101C IR 2M Transmitter



Device



Cable (3C)

IR Transmitter (SB-101C)



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

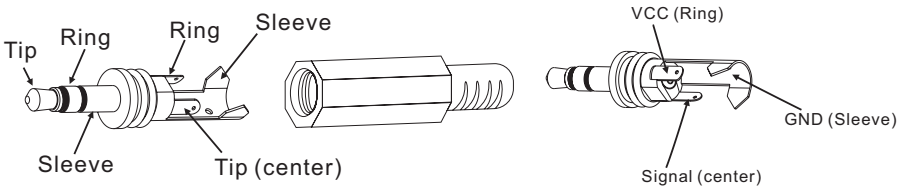
**** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ****

PIN CONFIGURATION:

SB-101 and SB-101C Transmitter Pin configuration



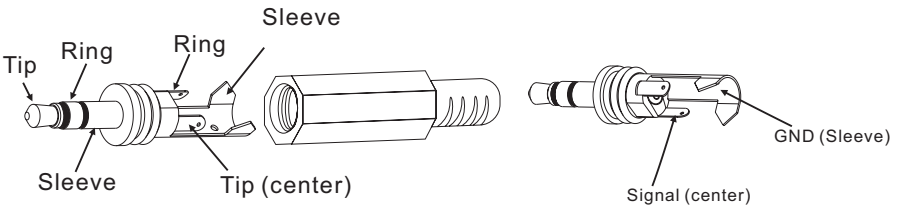
Tip: Signal
Ring :VCC
Sleeve: GND



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



Tip: Signal
Ring: NC
Sleeve: GND

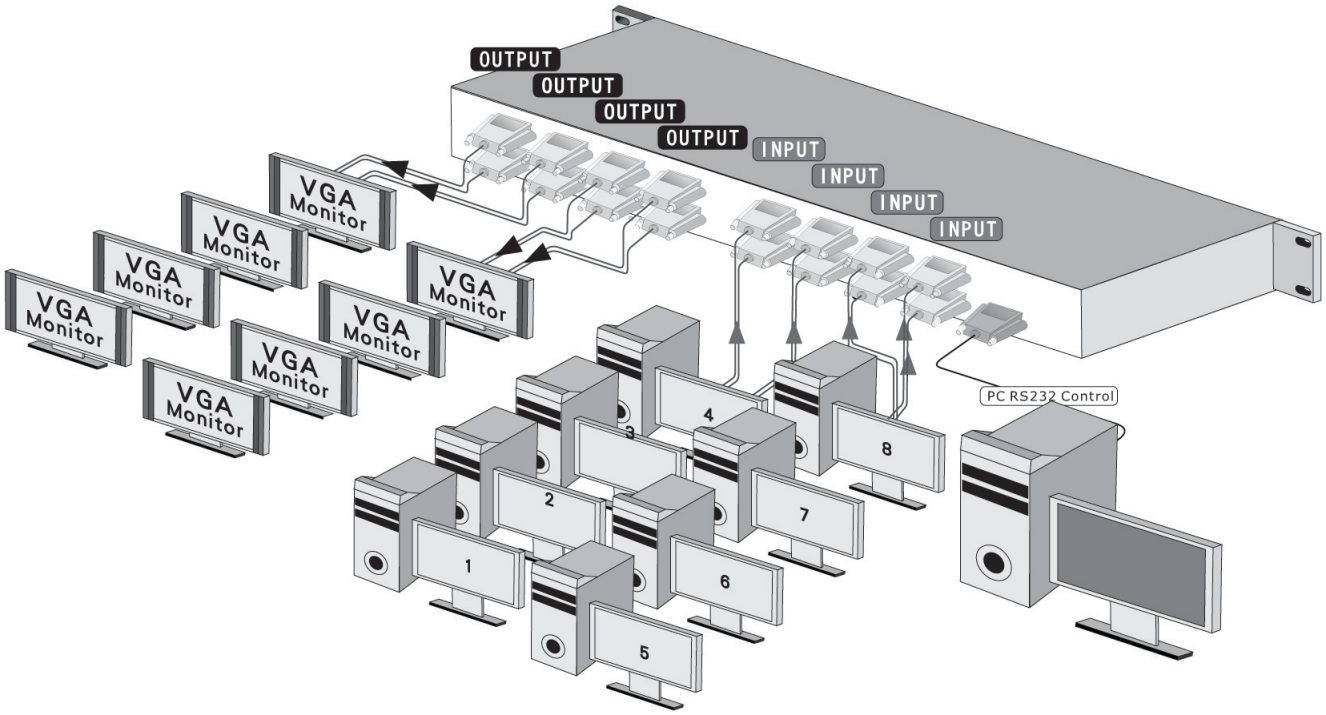


SB-101C Maximum Distance ~ 6 feet (2M)

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

8X VGA SOURCE DEVICES TO 8X VGA DISPLAY MATRIX SWITCHER



INSTALLING

CONTROL PORTS:

1. FRONT PANEL - Control Key
2. IR REMOTE - IR Remote Controller
3. RS-232 Interface - RS-232 interface system

NPUTS 1 ~ 8 PORT VGA SOURCE SIGNALS:

VIDEO - VGA (RGBHV), connector with HD-15p (D-Sub)
AUDIO - Stereo Audio (AR/AL), Connector via OD3.5mm Ear phone Jack

OUTPUT 1 ~ 8 PORT CAT5 CONNECT TO DISPLAY MONITOR SIGNALS:

CAT5 - VGA (RGBHV) & Stereo Audio (AR/AL) Connector with CAT5 RJ-45
Application Connection To CAT5 Receivers SB-6110R, SB-6210R and SB-6310R

SB-8188CT SUPPORTS (8) COMPONENT INPUTS TO (8) MATRIX SWITCH OUTPUTS.
SUPPORTS IR & RS-232 INTERFACE SYSTEM PORTS.

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