INSTRUCTION MANUAL

SB-3877

8x2 Multi Format Video Matrix Routing Switcher
8 In's Converted to (2) VGA & (2) HDMI Outputs



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 qualifier 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

MultiVideo Matrix Switcher Series

Thank you for purchasing the SB-3877 MultiVideo 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 8x2 multivideo switcher.

CONTENTS

INTRODUCTION 1
FEATURES & SPECIFICATIONS 2
FRONT PANEL 3
REAR PANEL 4
REMOTE CONTROL 5
IR EXTENDER 6
RS-232 PROTOCOL COMMANDS 8

INTRODUCTION

The SB-3877 is a Multi-Video switcher featuring (8) inputs and (2) outputs (independent of each other) maxing this a true Matrix Routing Switcher. The Inputs are comprised of: 2x HDMI, 2x Composite Video w/Audio, 2x S-Video w/ Audio, 2x Component video w/ Audio and 2x VGA w/ Audio. The Outputs are 2x HDMI w/ Digital Audio, 2x VGA w/ Audio. Note that you can use BOTH the VGA Output and the HDMI Output simultaneously giving you (2) outputs per channel for a total of (4) outputs per chassis.

When switching between sources, the output will fade to black then fade-in to the new source you selected. Formats supported are NTSC/PAL/SECAM video systems allowing you to do format conversion. Supports High Definition Digital signal with data rates enabling 1080p formats or if in PC resolution (1920x1200). Audio is present on all outputs regardless of selected video signal type and the volume control is set for either output channel, independent of each other. It completely eliminates the need to constantly move around HD input and output cables.

Control is provided via front push buttons with LED readout or IR remote controller. A RS-232 interface is provided for interfacing with third party control or use the provided software. Input cable equalizer enables use of long cable runs of more than 50 feet (15M) when using 24AWG cable at 1080i. A windows-based control software package is included to provide complete control of the SB-3877 from a PC.

PACKAGE CONTENTS

Check that you have the following components;

- SB-3877 Matrix Switcher
- (2) IR Remote Control
- (2) HDMI to DVI adapters
- Rack Mounts
- RS-232 driver CD (All Windows Operating Systems)
- Users Guide
- AC/DC Adapter: 12VDC, 1000mA~3000mA
  AC/DC Adaptor Types : CE/UL/SAA/BS

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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FEATURES & SPECIFICATIONS

FEATURES

- Support (8) inputs to (2) outputs Multi Video Matrix Switcher
- Support VGA output resolution VGA, SVGA, XGA and SXGA, WXGA, WUXGA
- Supports HDMI output resolution for 720p & 1080p
- Fade to black between switching
- Push Button control, RS-232 control, IR Control
- 1U Rackmount Multi Video Matrix Switch

SPECIFICATIONS

- **Video/Audio Inputs 8x Video Inputs:**
  - 2x HDMI (Digital Video-TMDS & Digital Audio-PCM) via HDMI connectors
  - 2x CVBS/S-Video (Y/C)/Audio Via Composite (1x RCA), S-Video (1x min din-4p) & Stereo Audio (2x RCA)
  - 2x Component Video (YPBPR)/Audio Via Component (3x RCA) & Stereo Audio (2x RCA)
  - 2x VGA (RGBHV)/Audio via VGA (2x HD-15P) & Stereo Audio (2x RCA)
- **Video/Audio Outputs 2x Video Outputs:**
  - 2x HDMI (Digital Video-TMDS & Digital Audio-PCM) via HDMI connectors
  - 2x Digital Audio via 2x RCA, 2x VGA (RGBHV)/Audio Via VGA (2x HD-15P) & Stereo Audio (2x RCA)

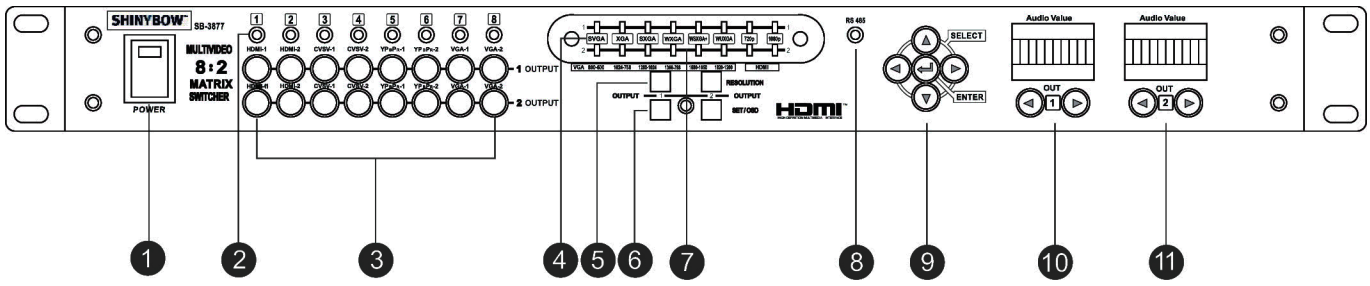
Auto Detection TV Video System:

- NTSC-M 3.58
  - NTSC-J, 4.43
  - PAL-B-D-I-G-H-K
  - PAL-M
  - PAL-N
  - PAL-N COMB-N
  - SECAM (Impedance: 75Ohms)
- **SD Menu Selections:** Adjust Color, Contrast, Brightness, Sharpness, Level and Gain
- **Video Bandwidth:** 250MHz, (-3dB)
- **Audio Bandwidth:** >60MHz, (-3dB)
- **Audio Frequency Response:** 20Hz~20KHz
- **Input Source Resolutions:**
  - HDMI for 480p, 720p & 1080p
  - Component Video (YPBPR) for 480p, 720p & 1080p
  - VGA for VGA (640x480)
  - SVGA (800x600)
  - XGA (1024x768)
  - SXGA (1280x1024) Max
- **Unit Output Resolutions:**
  - HDMI for 720p & 1080p
  - VGA for SVGA (800x600)
  - XGA (1024x768)
  - SXGA (1280x1024)
  - WXGA (1366x768)
  - WXGA+ (1680x1050)
  - WUXGA (1920x1200) Max
- **Shipping Weight:** 3.5 Kgs
- **Control:** Direct Front Panel menu, Remote control & RS-232/RS-485
- **RS-232 Control:** 9600 bps, No Parity, 8 bits, 1 Stop bit
- **Safety Approvals:** CE, FCC, RoHS (2002/95/EC)
- **Dimensions (LxWxH):** 19 x 7.87 x 1.75 in (482x200x44 mm)
- **Power Supply:** 12VDC, 3A (2.45A Max) Universal Switch type 50/60Hz 100~230VAC

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

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

2. INPUT SOURCES DISPLAY: Input sources (1) to (8) LED illuminates green to indicate that a video source is present on that input.

3. SOURCE SELECT BUTTONS: A separate Output-1 and 2 source select buttons are provided for each destination.
Select sources are 1-HDMI, 2-HDMI, 3-CV/SV, 4-CVSV, 5-YP BPR, 6-YP BPR, 7-VGA, 8-VGA

4. HDMI & VGA RESOLUTIONS DISPLAY: Independent outputs of HDMI & VGA resolution via LED display.
- VGA: SVGA (800x600), XGA (1024x768), SXGA (1280x1024), WXGA (1366x768), WSXGA+ (1680x1050), WUXGA (1920x1200)
- HDMI: 720p / 1080p

5. RESOLUTION SELECT BUTTONS: To select separate output resolution per Output 1 and 2.

6. OSD / SET SETUP BUTTONS:
- SET: Setup the button. Refer to #4 resolution selections
- OSD-1 & OSD-2 push selection buttons.

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

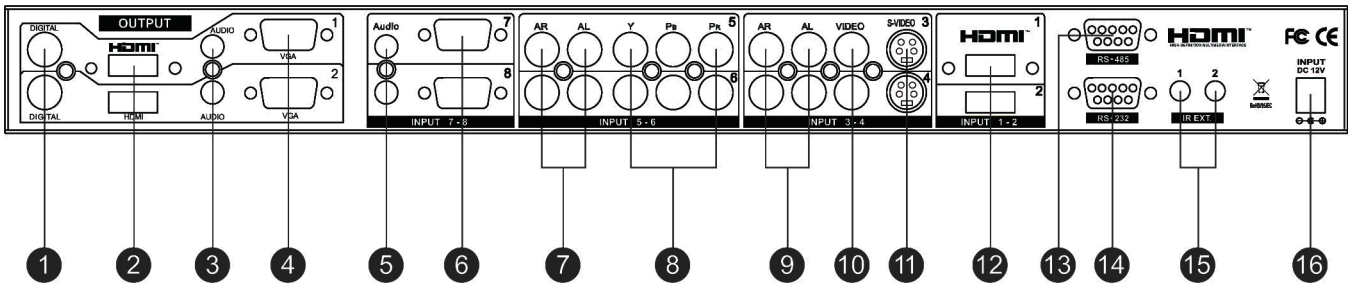
8. RS-485 LED DISPLAY: RS-485 LED illuminates when RS-485 is present.

9. OSD CONTROL: Adjust OSD on display via separate two output screens.

10. OUTPUT AUDIO-1 ADJUST: Adjust Output-1 Audio Value via LED display.

11. OUTPUT AUDIO-2 ADJUST: Adjust Output-2 Audio Value via LED display.

BACK PANEL



1. DIGITAL AUDIO OUTPUTS: A separate Output-1 & Output-2 digital audio port via RCA connector is provided for each destination output. The digital audio signals from HDMI Input-1 or Input-2 only.

2. HDMI OUTPUTS: A separate output-1 & 2 HDMI ports with HDCP is provided for each destination output. Convert from CV/SV, YPbPR, VGA & HDMI

3. STEREO AUDIO OUTPUTS: A separateOutput-1 and 2 Stereo Audio signals via 2x RCA connectors is provided for each destination output.

4. VGA OUTPUTS: A separate Output-1 and 2 VGA (RGBHV) signals via 2x HD-15F female connectors is provided for each destination output. Convert from CV/SV, YPbPR, VGA & HDMI

5. INPUT- 7 & 8 AUDIO INPUTS: Input 7 is a stereo audio (AR/AL) with Input 7 VGA and Input 8 is a stereo audio(AR/AL) with Input 8 VGA.

6.INPUT 7 & 8 VGA INPUTS: Input 7 is a VGA (RGBHV) via HD-15P connector and Input 8 is a VGA (RGBHV) via HD-15P connector.

7. INPUT 5 & 6 AUDIO INPUTS: Input 5 is a stereo audio (AR/AL) with Input 5 component and Input 6 is a stereo audio (AR/AL) with Input 6 component.

8. INPUT 5 & 6 COMPONENT VIDEO INPUTS: Input 5 is a Component (YPbPR) via RCA connector and Input 6 is a Component (YPbPR) via RCA connector.

9. INPUT- 3 & 4 AUDIO INPUTS: Input 3 is a stereo audio (AR/AL) with Input 3 composite or S-Video and Input 4 is a stereo audio (AR/AL) with Input 4 composite or S-Video.

10. INPUT- 3 & 4 COMPOSITE INPUTS: Input 3 is a Composite Video via RCA connector and Input 4 is a Composite video via RCA connector.

11. INPUT- 3&4 S-VIDEO INPUTS: Input 3 is a S-Video(Y/C) via mini-4p connector and Input 4 is a S-Video(Y/C) via mini-4p connector.

12. INPUT- 1&2 HDMI INPUTS: Input 1 is a HDMI (digital), HDCP compliant and Input 2 is a HDMI (digital), HDCP compliant.

13. RS-485 CONTROL: RS-485 control port to allow for interfacing to a PC.

14. RS-232 CONTROL: RS-232 control port to allow for interfacing to a PC.

15. IR EXTENDER CONTROL: A separate IR Extender for Output 1 and 2. IR EXT.- 1 is for Output-1. IR EXT.- 2 is for Output-2

16. DC POWER INLET: The SB-3877 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.

REMOTE CONTROL

Before making any connections to the SB-3877. 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 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

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

3. OUTPUT-1 RESOLUTION SET & OSD:
Setup the output-1 resolutions or manual OSD.

4. OUTPUT-2 RESOLUTION SET & OSD:
Setup the output-2 resolutions or manual OSD.

5. SELECT VGA OUTPUT RESOLUTIONS:
Select VGA output resolutions as following: SVGA 800x600, XGA 1024x768, SXGA 1280x1024, WXGA 1366x768, WSXGA+1680x1050, MAX. WUXGA 1920x1200.

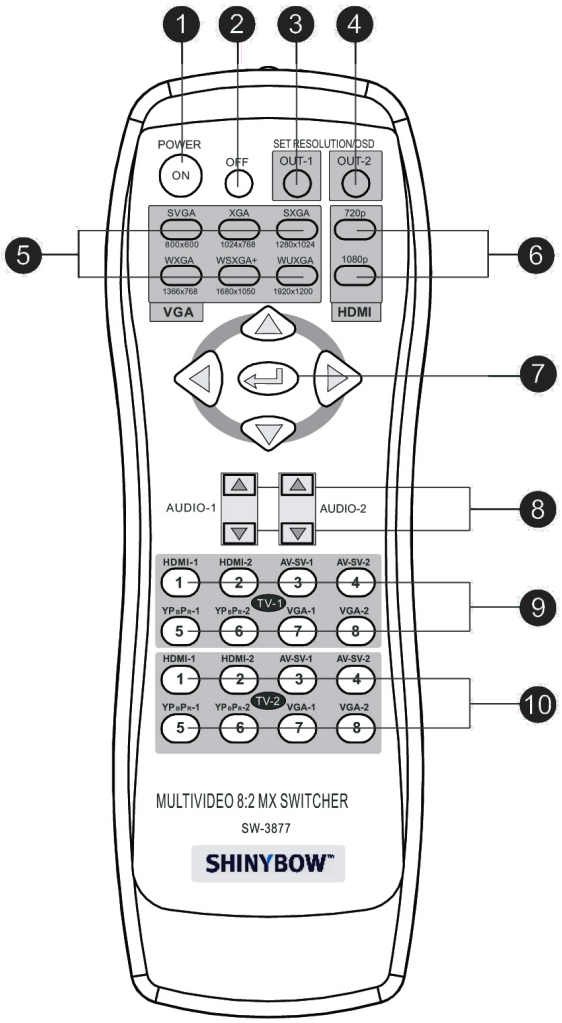
6. SELECT HDMI OUTPUT RESOLUTIONS:
Select HDMI output resolutions as following: 720p, 1080x720, 1080p 1920x1200 MAX.

7. MANUAL OSD:
OSD to setup or Adjust output resolutions and color.

8. AUDIO VALUE ADJUSTMENT:
OSD to setup or Adjust output resolutions and color.

9. SELECT OUTPUT-1 SOURCES:
Output-1 for audio-video 1 to 8 source selections

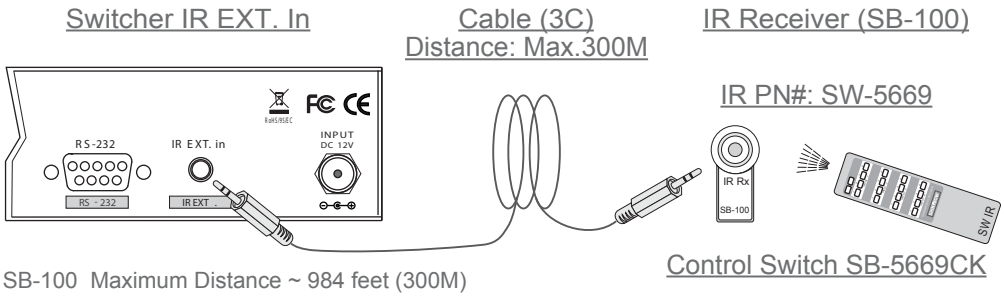
10. SELECT OUTPUT-2 SOURCES:
Output-2 for audio-video 1 to 8 source selections.



IR EXTENDER

1. SB-100 IR 300M Receiver



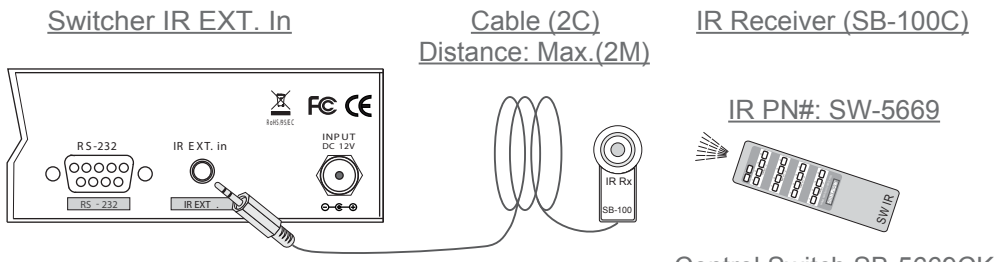


SB-100 Maximum Distance ~ 984 feet (300M)

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

2. SB-100C IR 2M Receiver





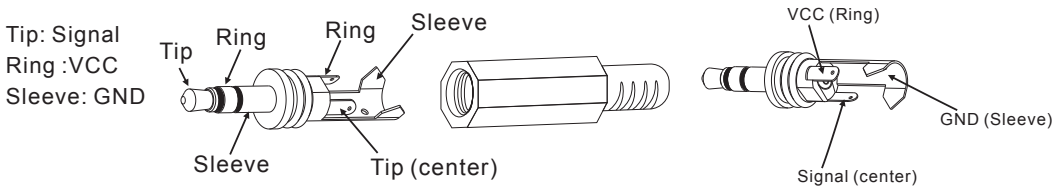
SB-100C Maximum Distance ~ 6 feet (2M)

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

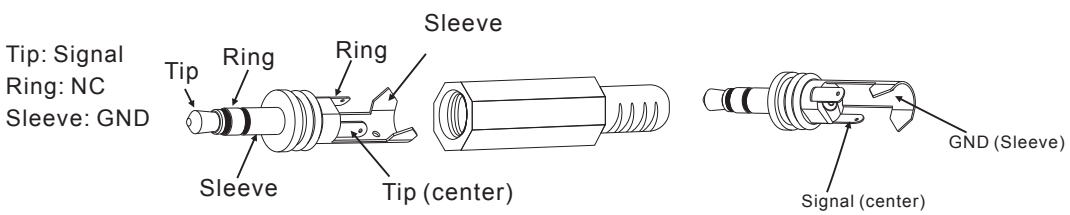




SB-100 Receiver and SB-101 Transmitter The DISTANCE maximum ~ 984 feet (300M)

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)

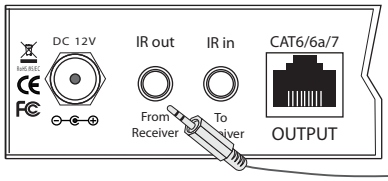
Note: *The External IR jack has voltage on the “Ring” portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

IR EXTENDER

1. SB-101 IR 300M Transmitter

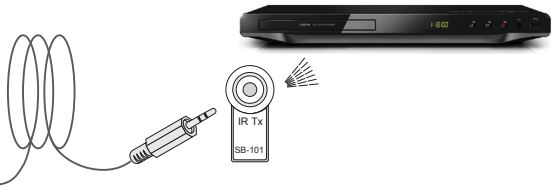


Device



Cable (3C)

IR Transmitter (SB-101)

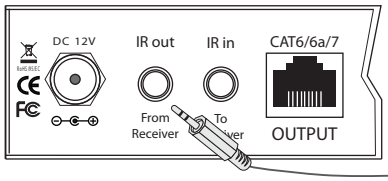


SB-101 Maximum Distance ~ 984 feet (300M)

2. SB-101C IR 2M Transmitter



Device



Cable (3C)

IR Transmitter (SB-101C)



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

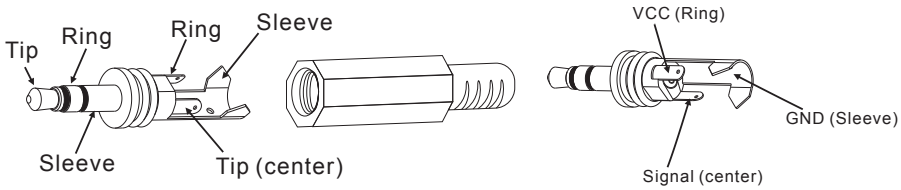
**** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ****

PIN CONFIGURATION:

SB-101 and SB-101C Transmitter Pin configuration



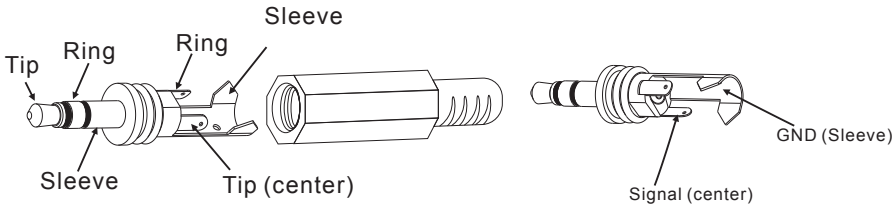
Tip: Signal
Ring :VCC
Sleeve: GND



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



Tip: Signal
Ring: NC
Sleeve: GND

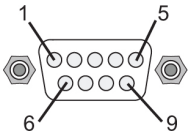


SB-101C Maximum Distance ~ 6 feet (2M)

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.*

RS-232 SERIAL INTERFACE

RS-232



The Shinybow 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.

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

RS-485 SERIAL INTERFACE

Pin	RS-485	Definition
1	------	Not used
2	A	Non-inverting
3	B	Inverting
4	------	Not used
5	GND	Ground
6	------	Not used
7	------	Not used
8	------	Not used
9	------	Not used

COMMANDS

To Switch Inputs to Outputs

SBI0XO0Y - Where X is Output Number (1-8) and Y is Number (1-2)

Unit will respond with

SBUD0XOY - Where X is Output Number (1-2) and Y is Input Number (1-8)

Example: Send Input 7 to Output 2
SBI07O02 - Send
SBUD07O2 - Rcvd

MORE STUFF FOR SB-3877

Note: Turning the unit System Power Off over RS-232 will extinguish the LED channel 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 channel display 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

LIMITED WARRANTY

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It is your responsibility to read and understand the installation and operation instructions, both verbal and in writing, provided to you with respect to the Product. You are authorized to use the Product solely in connection with such instructions. Any use of the Product not in accordance with such instructions shall void any warranty pertaining to the Product. Any and all damages that may occur in the use of the Product that is not strictly in accordance with such instructions shall be borne by you and you agree to indemnify and hold harmless SHINYBOWUSA, Inc. from and against any such damage.

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122 Rose Ln. Suite 303 | Frisco, Texas 75034

1-877-SHINY-USA
1-877-744-6987
1-972-377-2508

sales@shinybowusa.com

www.shinybowusa.com

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