SHINYBOW USA

MODEL : SB-8811 8x8 DVI MATRIX SWITCHER



8x8 DVI MATRIX SWITCHER

FULL HD DVI Matrix Switcher Series

Thank you for purchasing the SB-8811 DVI 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.



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.

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INTRODUCTION

The SB-8811 is high-performance 8x8 matrix routing switcher for DVI (Digital Visual Interface) signals. This switcher supports data rates up to 6.75 Gbps, enabling 1080p DVI formats and UXGA/WUXGA/DVI resolution to any HD display. High Definition Digital signals can be selected and distributed to any 8 outputs simultaneously. The Switcher is certified as being fully DVI and HDCP compliant, with RoHS,CE,FCC certification. Support high resolution DVI sources routed to DVI displays, monitors, projector or audio receivers. The EDID can be selected between seven (4) different modes. Control is provided via front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

PACKAGE CONTENTS

Check that you have the following components;

- SB-8811 Matrix Routing Switcher
- IR Remote Controller (SW-8811)
- 19 inch Ear mount bracket (Part # 1U-440L)
- IR Extender receiver (SB-100)
- CD Contents: This manual, Windows GUI
- RS-232 Cable
- Users Guide
- Power Supply: 12VDC, 5A 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

- 8x DVI digital source devices matrix switched to 8x DVI devices.
- DVI digital video w/embedded audio, DVI format and CEC/HDCP 2.0 compliant
- Seven (7) function key control and worldwide (4) EDID modes for HDTV resolutions.
- Link speeds of up to 6.75 Gbps (link clock rate of 340Mb Hz), Support DVI 3D formats.
- Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV resolutions 480i/480p, 576i/576p, 720p, 1080i & 1080p
- Compatible with all DVI source devices, PC monitors, Plasma HD display, HDTV and audio receivers/amplifiers.
- Digital Video TMDS formats Resolution up to 1080p-60 with Deep color 36-bit.
- Various user interface controls:
 - Windows-based GUI control via RS-232 port
 - Front panel push buttons
 - IR wireless remote control
 - Third party RS-232 controller (via simple ASCII)
- Supports worldwide control functions: ALL/OFF/RECALL/ENTER/MEMORY/EDID/LOCK.
- Support EDID modes :
 - Internal modes : AUTO/1080p-2CH/1080p-5.1/1080p-7.1/1080i-2CH/720p-2CH
 - External modes : Passing mode
- Automatic scanning input & output status via LED show on front panel.
- Support preview output port simultaneously output #1.
- Support IR Remote and IR Extender with distance up to ~ 1000' (300M) Maximum.
- EDID configuration via Internal modes.
- Consumer Electronic Control (CEC) switch all open or OFF

The Switcher will remember that last state during a power cycle. When power is removed and resorted, the last configuration will be invoked.

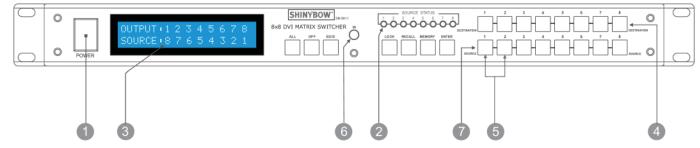
SPECIFICATIONS

- Type of DVI Switcher: 8x DVI inputs To 8x Outputs DVI Matrix Switcher
- DVI Support: HD 1080p-@60Hz, H36-bit Deep color, 3D (1.4a) formats
- HDCP / CEC Support: HDCP 2.2 Compliant, CEC Compliant.
- Video Bandwidth: Double Data Rates: 340 MHz, total 6.75 Gbps bandwidth
- Digital Video Support: Full HD resolution : 480i / 480p / 720p / 1080i / 1080p
- Switcher Controls:
 - IR remote control
 - IR external port x 1 (OD 3.5mm ear phone jack)
 - Select & Function buttons on front panel
 - RS-232 serial interface
- Preview Output: Support 1x preview output port simultaneously via Output- #1
- Source Status: Automatically Scan Sources Inputs via LED
- Function Control Key: ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
- Infrared Frequency: 38 Khz
- IR External Distance: ~1000 feet / 300 meters maximum
- HDMI I/O Connector: DVI-D (24+5) pin Female DIP Type
- **Temperature:** Operate in a place between 32°F 100°F (0°C 38°C)
- Dimensions (LxWxH): 19 x 9.85 x 1.75 in (482mm x 250mm x 44mm)
- Rack Mount: Rack Mount 1RU High 19 in Rack Mount (with rack mount)
- Power Supply: DC12V / 5A, Universal world wide Type 50/60Hz, 100~230 VAC
- Power Consumption: 3880 mA Maximum
- Safety Approvals: CE, FCC, RoHS (2002/95/EC)
- Product Weight: 13 lbs

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

FRONT PANEL

FRONT PANEL



1. POWER SWITCH

The power switch turns the unit on and off. The LCM 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 LCM 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. EDID MODE SELECT BUTTONS

Used to select EDID mode using buttons #1 thru #2

6. IR SENSOR

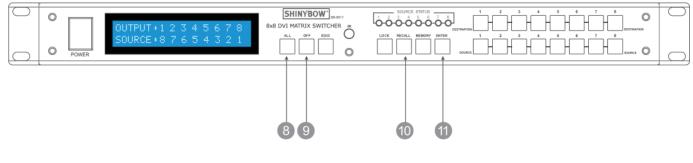
The IR sensor receives IR commands from the supplied remote controller or a third party IR emitter.

7. SOURCE SELECT BUTTONS

Separate inputs 1 thru 8 select buttons are provided each source selection.

FRONT PANEL

FRONT PANEL



8. FUNCTION KEY - ALL



Disables (mute) video on all destinations OR Selects the same source to all destinations. *Option 1*

- Press <u>ALL</u> followed by <u>OFF</u> 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 (mute) video to selected channels. Either destinations.

- Press **OFF** button followed by any Destination channel.
- Press 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 **<u>RECALL</u>** button.
- Press 1 thru 8 on either Source or Destination row.
- Press **ENTER** The pre-set configuration will execute.

Operation completes.

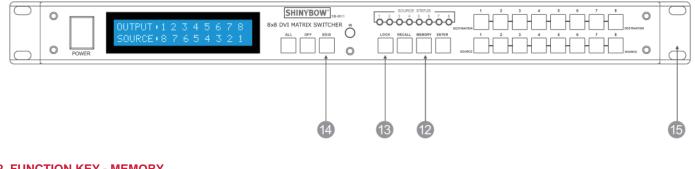
Note: Operation will abort if no keys are dressed within 5 seconds.

11. FUNCTION KEY - ENTER

Press ENTER to confirm entries.

FRONT PANEL

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 dressed 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.

14. FUNCTION KEY - EDID

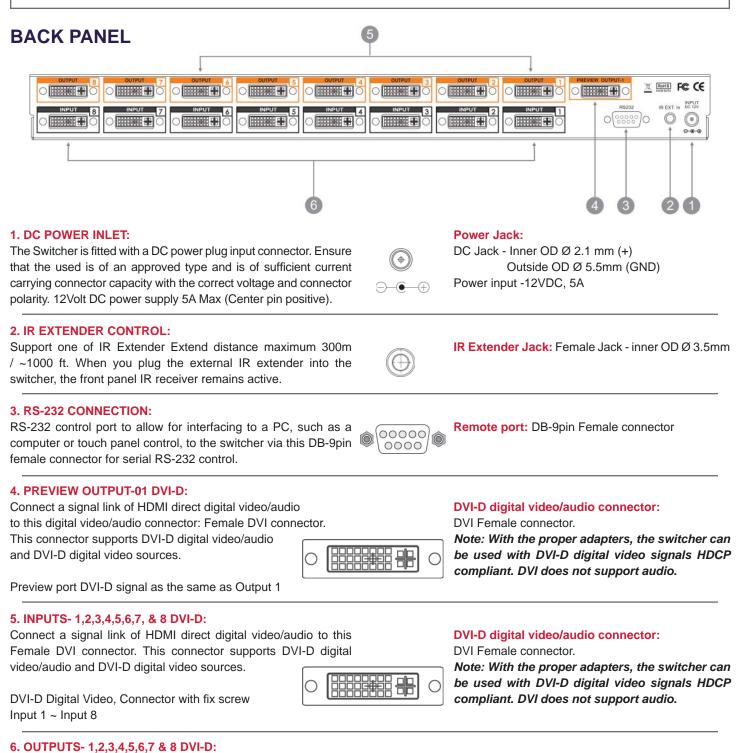


- Press EDID to select new EDID mode or select source row #1 or #2 for LINK source EDID again.
- Press the DESTINATION # to learn EDID The Destination EDID has been learned.

15. 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



Connect a signal link of DVI-D direct digital video/audio to this Female DVI connector. This connector supports DVI-D digital video/audio and DVI digital video sources.

DVI-D Digital Video, Connector with fix screw Output 1 ~ Output 8



DVI-D digital video/audio connector: DVI Female connector.

Note: With the proper adapters, the switcher can be used with DVI-D digital video signals HDCP compliant

REMOTE CONTROL

Before making any connections to the switcher, 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 communication port.
- Upon power up the switcher will return to its last used setting before Powered down.

REMOTE CONTROL

IR REMOTE CONTROL KEY : IR REMOTE : SW-8811

1. & 2. SWITCH POWER ON or OFF:

Controller with a separate power ON and OFF

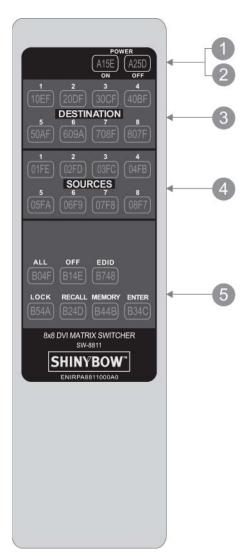
3. DESTINATION : 1 thru 8 OUTPUT SELECTION: Press the destination button to select the output display channel

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 ENTER - function selection button MEMORY - function selection button



REMOTE PROTOCOL COMMANDS

IR REMOTE CUSTOM AND DATA CODES (NEC STANDARD) HOW TO SETUP IR CODES : CUSTOM CODE : 33CC

CUSTOM CODE: 33CC

POWER ON : 33CC A15E POWER OFF: 33CC A25D ALL: 33CC B04F OFF : 33CC B14E LOCK : 33CC B54A EDID : 33CC B748 RECALL: 33CC B24D ENTER: 33CC B34C MEMORY: 33CC B44B

HOW TO GIVE IR COMMANDS:

PRESS DESTINATION - # then PRESS SOURCE - #

DESTINATION #1:33CC	01EF	SOURCE #1 : 33CC 01FE
DESTINATION #2 : 33CC	20DF	SOURCE #2 : 33CC 02FD
DESTINATION #3 : 33CC	30CF	SOURCE #3 : 33CC 03FC
DESTINATION #4 : 33CC	40BF	SOURCE #4 : 33CC 04FB
DESTINATION #5 : 33CC	50AF	SOURCE #5 : 33CC 05FA
DESTINATION #6:33CC	609F	SOURCE #6 : 33CC 06F9
DESTINATION #7:33CC	708F	SOURCE #7 : 33CC 07F8
DESTINATION #8:33CC	807F	SOURCE #8 : 33CC 08F7

For example;

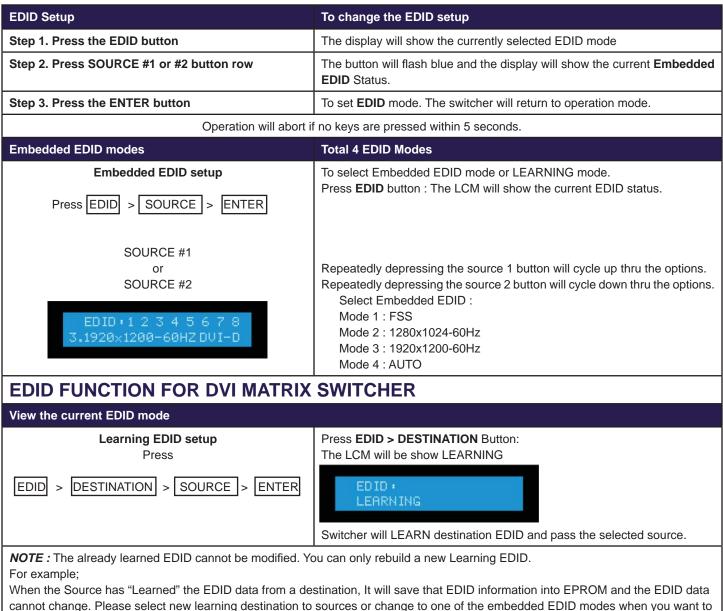
Let Destination # 1 show the signal from Source #1~4

The IR Data Code list :

Destination # 1 & Source #1	33CC	01FE	33CC	01FE
Destination # 1 & Source #2	33CC	01FE	33CC	02FD
Destination # 1 & Source #3	33CC	01FE	33CC	03FC
Destination # 1 & Source #4	33CC	01FE	33CC	04FB
Destination # 1 & Source #5	33CC	01FE	33CC	05FA
Destination # 1 & Source #6	33CC	01FE	33CC	06F9
Destination # 1 & Source #7	33CC	01FE	33CC	07F8
Destination # 1 & Source #8	33CC	01FE	33CC	08F7

EDID FUNCTION

EDID FUNCTION SETUP



remove the learning EDID memory from EPRPM.

EDID FUNCTION

EDID function : 4x Embedded EDID Modes		
Mode 1. FSS (Fast Speed Start) ED ID • 1. FAST SPEED START	Automatic capture most suitable EDID from Destination to Source.	
Mode 2. 1280x1024-60Hz (DVI-D) ED ID • 2.1280×1024-60HZ DVI-D	DVI Support : DVI-D 1280x1024 - 60Hz	
Mode 3. 1920x1200-60Hz (DVI-D) ED ID : 3.1920×1200-60HZ DVI-D	DVI Support : DVI-D 1920 x 1200 - 60Hz	
Mode 4. AUTO <default> ED ID : 4. AUTO MODE</default>	All Outputs will be set to the highest common resolution of all connected display devices.	
EDID FUNCTION : LEARNING		
Learning EDID Single to Single	Example : Learn Destination #8 EDID To Source #5.	
Learning EDID Single to Single Step 1. Press EDID button Example : Learn Destination #8 EDID To Source #5.	Example : Learn Destination #8 EDID To Source #5. The button will flash blue and the display will show the current Embedded EDID Status.	
Step 1. Press EDID button	The button will flash blue and the display will show the current Embedded	
Step 1. Press EDID button Example : Learn Destination #8 EDID To Source #5.	The button will flash blue and the display will show the current Embedded EDID Status.	
Step 1. Press EDID buttonExample : Learn Destination #8 EDID To Source #5.Step 2. Press the Destination #8 button row	The button will flash blue and the display will show the current Embedded EDID Status. Copy the Destination #8 Display EDID.	
Step 1. Press EDID buttonExample : Learn Destination #8 EDID To Source #5.Step 2. Press the Destination #8 button rowStep 3. Press the Source #5 button row	The button will flash blue and the display will show the current Embedded EDID Status. Copy the Destination #8 Display EDID. Learning the Destination #8 EDID To Source # 5.	
Step 1. Press EDID buttonExample : Learn Destination #8 EDID To Source #5.Step 2. Press the Destination #8 button rowStep 3. Press the Source #5 button rowStep 4. Press ENTER button	The button will flash blue and the display will show the current Embedded EDID Status. Copy the Destination #8 Display EDID. Learning the Destination #8 EDID To Source # 5. To confirm entries.	
Step 1. Press EDID buttonExample : Learn Destination #8 EDID To Source #5.Step 2. Press the Destination #8 button rowStep 3. Press the Source #5 button rowStep 4. Press ENTER buttonLearning EDID Single to multiple	The button will flash blue and the display will show the current Embedded EDID Status. Copy the Destination #8 Display EDID. Learning the Destination #8 EDID To Source # 5. To confirm entries. Learning destination EDID link to the majority Sources The button will flash blue and the display will show the current Embedded	
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EDID FUNCTION

EDID FUNCTION FOR DVI MATRIX SWITCHER

EDID status	To view the current EDID status.
Step 1. Press EDID button	The button will flash blue and the display will show the current Embedded EDID Status.
Step 2. Press EDID button	To exit.
How to setup FSS Function	Learning EDID from Destination to Source
Step 1. Press the Destination #1~8 button row Then Press the Source #1~8 button row	To setup and Install all devices.
Step 2. Press EDID button	Select a optimum status of Embedded EDID mode.
Step 3. Press ENTER button	To conform entries.
Step 5. Press EDID button	To select the EDID FSS mode.
Step 5. Press ENTER button	To confirm entries.
LEARNING EDID definition	Learning destination EDID link to All Sources

1. Switcher will **LEARN** destination EDID and pass the selected source.

 To set up learning between a single destination and single source: Press EDID button > Press Destination 1 thru 8 > Press Source 1 thru 8 > Press ENTER to confirm. Switcher will learn destination EDID to source device.

- To set up learning between a single destination and Multiple sources: Press EDID button > Press Destination 1 thru 8 > Press the majority Sources 1 thru 8 > Press ENTER. Switcher will learn single destination EDID to many source devices.
- 4. How to Learning single destinations with all sources. Press **EDID** button > Press **ALL** button > Press **ENTER** to confirm.

Auto mode definition

Common Resolution and Audio

Switcher will find highest common Resolution and Audio from all destination EDID to link Source.

Example for single source

Destination > press #1 and then Source > press #1 Destination device #1 will set to the highest <u>common</u> resolution and Audio of source #1

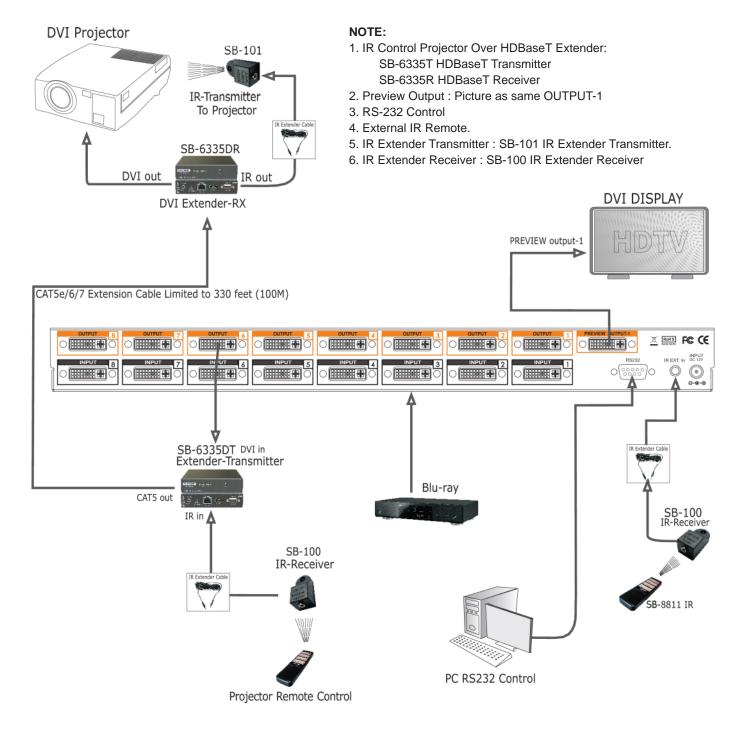
Example for multiple sources

Destination device #1, #2, #3 will be set to the highest <u>common</u> resolution and Audio available and source device #1 will output this same resolution.

TYPICAL APPLICATION

INSTALLING DIAGRAM

Sample connection using IR Transmitters (SB-101) and IR Receiver (SB-100) with SB-6335T & SB-6335R to control a projector.



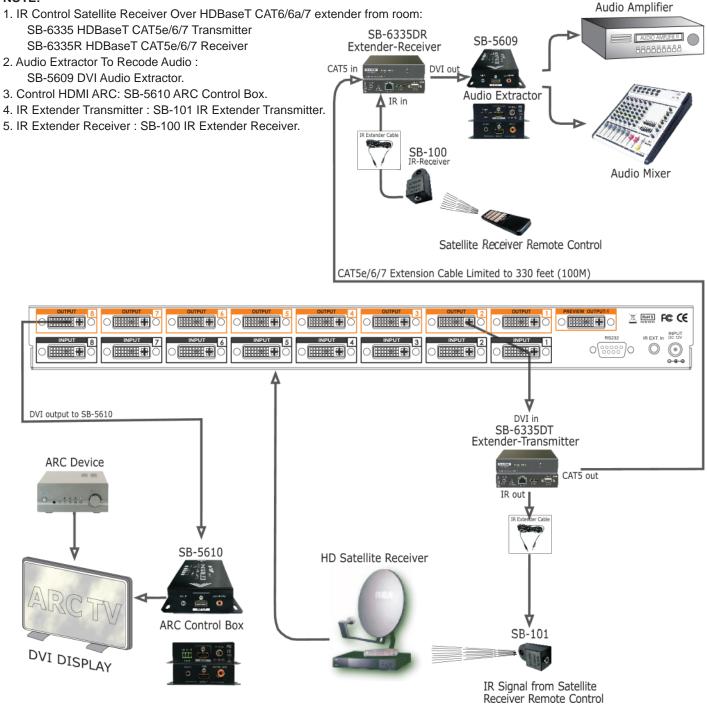
Support HDBaseT Extender by SB-6335T Transmitter and SB-6335R Receiver via CAT5e/6/7 cable

TYPICAL APPLICATION

INSTALLING DIAGRAM

Example connection using IR transmitters (SB-101) and IR receivers (SB-100) with SB-6335T and SB-6335R to control a satellite receiver.

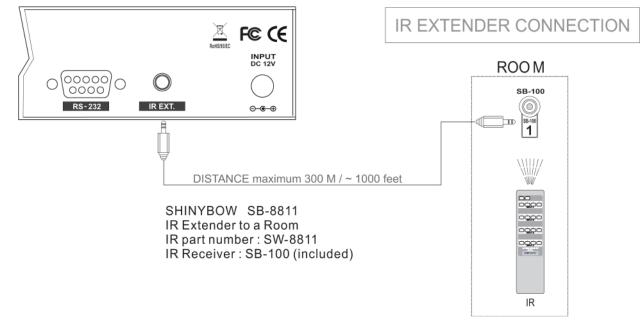
NOTE:



Support HDBaseT Extender by SB-6335T Transmitter and SB-6335R Receiver via CAT5e/6/7 cable

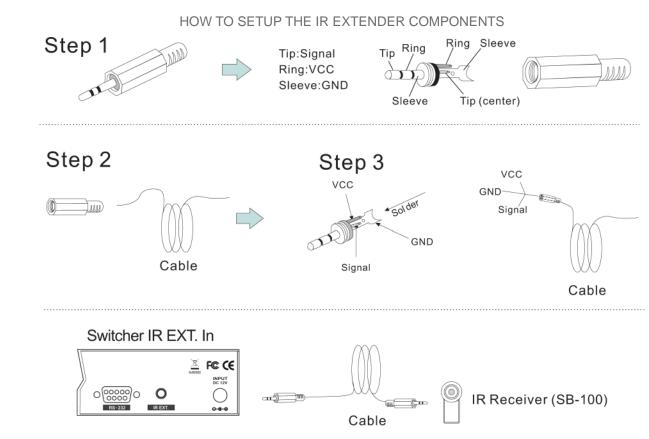
IR EXTENDER

REAR PANEL IR EXTENDER PORT



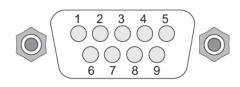
*** When you plug the External IR extender into the switcher, the front panel IR receiver remains active. ***

IR EXTENDER PACKAGE :



RS-232 SERIAL INTERFACE

RS-232 SERIAL INTERFACE CONNECT A PC OR CONTROL SYSTEM. VERSION -2.0 COMPATIBLE



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

RS-232 SERIAL INTERFACE

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.

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