

# SB-5605

4x1 HDMI Optical Digital Switcher w/ RS-232 Control



### IMPORTANT WARRANTY INFORMATION.

*If you remove the HDMI screw posts, you must use the provided HDMI Locking Post replacement screws to keep the internal HDMI jack secure. Removing the HDMI screws without installing the HDMI Locking Post replacement screws will void your warranty.*



## 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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## HDMI Routing Switcher Series

Thank you for purchasing the SB-5605 4x1 HDMI Optical/Digital 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 HDMI AV switching product on the market today. This 4x1 HDMI switcher with digital audio is a professional HDMI switcher with remote. Simply pressing a button on the remote you can select your desired HDMI source to be routed to a high definition display. This switcher is tested to guarantee resolutions up to 1080p without signal degradation.

The great advantage of this switcher is that you can now route your digital audio through it as well, rather than separately going into the receiver. With a click of a button you can switch from HDMI (video) and Optical or Coaxial Audio. This simple advantage will allow you to only have (2) cables going out of the switch (HDMI and Optical or Coaxial), one to the TV and another to an audio receiver.

This 4x1 HDMI Switcher installs in seconds. Connect all the digital video sources to any of the inputs on the switch and connect the output cable to the display. Use a remote control or buttons on the front panel to switch video inputs. We recommend to use high quality HDMI cables for the best signal transfer. Switches (4) devices to (1) input port (signals HDMI, Digital Audio, Optical Audio).

### PACKAGE CONTENTS

Check that you have the following components;

- SB-5605 Switcher
- IR Remote control
- RS-232 Cable
- RS-232 Software (All Windows Operating Systems)
- HDMI Locking Post Replacement Screws
- Users Guide
- AC/DC Adapter: 12VDC@1250mA

Input: (4) HDMI  
Output: (1) HDMI  
Power Supply: DC +12V@1250mA



## LOOK A PUPPY!! NOW READ THIS!!

### IMPORTANT WARRANTY INFORMATION.

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### 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

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- 3D Enabled
- Inputs: (4) HDMI, Digital, or Optical
- Outputs: (1) HDMI Output
- Supports high resolution inputs up to 1080p
- PC resolutions to 1920x1200
- Supports 250Mbps to 1.65Gbps data rates
- Equalized inputs for operation for 1080p with a 65 ft/20M long HDMI cable
- HDCP Compliant
- S/PDIF optical output, supports full HD audio up to (8) Channels
- HDMI 1.3, 1.2, HDCP 1.1 and DVI 1.0 compliant
- Ideal for professional HDMI component integration
- Wireless remote control
- RS-232 PC control with a windows based control software included FREE
- Easy to install and simple to operate

## SPECIFICATIONS

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- **Type of Switcher:** (4) Inputs to (1) Output HDMI Switcher
- **Control:** IR Remote Controller & RS-232
- **Signal Switch:**
  - HDMI (TMDS)
  - Optical (S/PDIF)
  - Digital Audio (PCM)
- **Data Rates:** 250Mbps to 1.65Gbps
- **Pixel Clocks:** 25Mhz to 165MHz
- **Compatible Standard:** HDMI/HDCP Standard compatible
- **Terminator:** HDMI sockets
- **Cable Distance:** 65 ft at 1080p
- **Power Consumption:** 300mA Maximum
- **Dimensions (LxWxH):** 12 x 6 x 1.75 in
- **Weight:** 3.1 lb (Unit only) / 4.9 lb (Net)
- **Power Supply:** 12VDC@1250mA

# TYPICAL HOOKUP AND OPERATION

## SB-5605



### FRONT VIEW:

Input Select: 1~4 buttons  
Power SW: ON/OFF

### REAR VIEW:

Inputs: HDMI-Optical-Digital  
Control: RS-232 PC control  
Power Supply: DC12V@1250mA

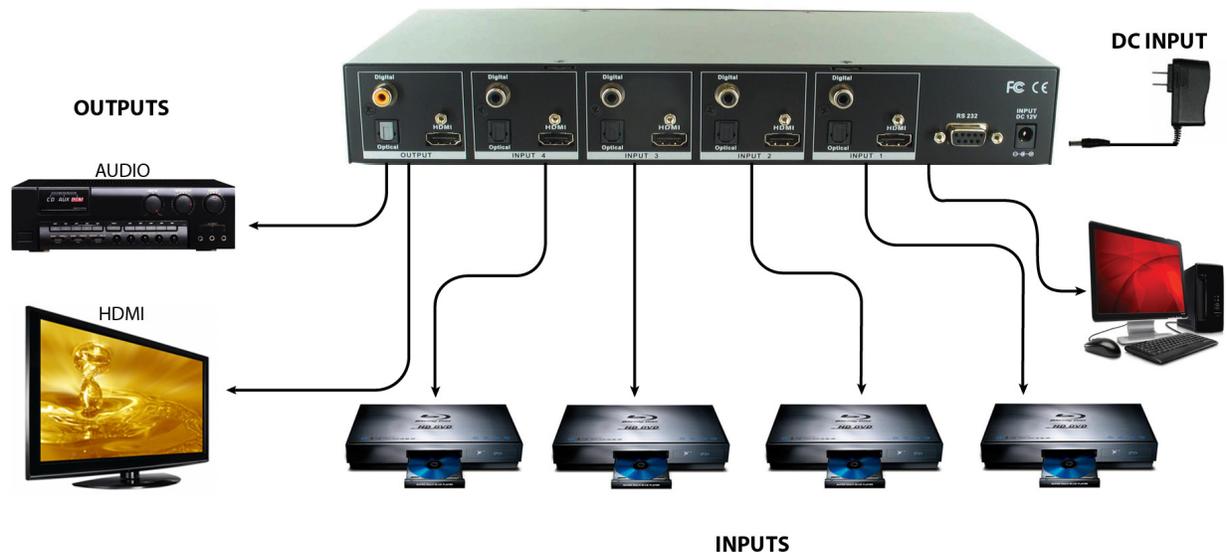
If you remove the HDMI screw posts, you must use the provided HDMI Locking Post replacement screws to keep the internal HDMI jack secure. Removing the HDMI screws without installing the HDMI Locking Post replacement screws will void your warranty.

### Safeguards and Precautions

- A. Keep this unit away from fire, extremely hot areas, water or moisture of any kind.
- B. Do not place this unit on any support that is not firm, level and strong.
- C. Do not service the unit yourself. Opening the unit's housing will void the warranty.
- D. Servicing must be by Shinybow or by an authorized technician.
- C. Illegal duplication of copyrighted material is strictly prohibited by Federal Laws.

## 4X1 HDMI OPTICAL/DIGITAL ROUTING SWITCHER

APPLICATIONS: Multi-Input Displays, Projectors, A/V Receivers, Set-Top Boxes, HDTV TV's



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