INSTRUCTION MANUAL

SB-5430

4x2 Composite/S-Video/Audio Routing Switcher Selector (IR)

SHINYBOWUSA

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.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL.

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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www.shinybowusa.com

122 Rose Ln. Suite 303 | Frisco, Texas 75036

sales@shinybowusa.com

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INTRODUCTION

Composite Video/S-Video Switcher Series

Thank you for purchasing the SB-5430 Composite Video / S-Video 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.

Congratulations on your purchase of one of the most innovative Video/Audio switching products on the market today. The SB-5430 is a (4) In (2) Out Composite Video or S-Video (Y/C)/Stereo Audio (R/L) selector routing switcher for multiple Audio/Video sources and displays controlled by an IR remote controller. It is capable of switching Composite, S-Video and Stereo Audio signals between (4) sources and (2) displays (same signal on both outputs) with compatible inputs. It supports a maximum bandwidth of 100MHz with sharp and highly defined video for multiple resolutions of up to 480i/576i. This unit allows any input to be routed to both outputs simultaneously. The video selector switch eliminates the need to constantly move around video input and output cables. The 4x2 routing switcher works with all Audio/Video equipment that has proper connections (such as: VCRs, Camcorders, Video Game Consoles, Video CD players, DVD players, Satellite Receivers, CAT5 Set Top Boxes, etc.) to Composite/S-Video/Audio destination devices (such as: VCRs, DVD recorders, TV Sets, Video Projectors, etc.)

PACKAGE CONTENTS

Check that you have the following components;

- SB-5430 Routing Switcher
- Remote Control
- AC/DC Adapter: 12VDC@420mA /CE/UL/SAA/BS
- Users Guide

FEATURES

- (4) Inputs: Composite/S-Video/Audio (RCA)
- (2) Outputs: Composite/S-Video/Audio (RCA)
- IR and Menu double select
- Video Bandwidth 100MHz
- Video Distortion 1.2dB
- Audio Distortion 0.6dB
- Channel Isolation 50dB
- S/N Ratio >50dB
- Uses IR Remote Controller (Frequency 38KHz)
- Supports lower power consumption full load under 250mA

SPECIFICATIONS

- **Video Inputs:**
  - (4) Composite 0.5-2Vpp, 75Ohms, RCA Socket
  - (4) S-Video (Y/C) 75Ohms, Mini-Din 4P Socket
- **Audio Inputs:** (4) Stereo Audio: L+R 5Vpp, 47kOhms, RCA socket
- **Video Outputs:**
  - (2) Composite 1Vpp, 75Ohms, RCA Socket
  - (2) S-Video (Y/C) 75Ohms, Mini-Din 4P Socket
- **Audio Outputs:** (2) Stereo Audio: L+R 5Vpp, 47kOhms, RCA socket
- **Video Bandwidth:** 30MHz, Maximum >100MHz +/- 3dB
- **Video Distortion:** <1.2dB
- **Audio Distortion:** <0.6dB
- **Channel Isolation:** >50dB
- **Signal to Noise Ratio:** >50dB
- **Power Supply:** 12V DC@420mA
- **Dimensions:** 9.25 x 5.5 x 1.75 in
- **Weight:** 1.0 lb (Unit only) / 2.4 lb (Net)

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

OPERATION INFORMATION

FEATURES OF THE CV/SV ROUTING SWITCHER

This device can be operated in (2) modes: IR remote control or Manual mode. Modes can be selected by pushing the IR/Manual buttons on the front panel to the video switcher. If you have (4) devices hooked up to the (4) inputs and only one has its power turned on, only that device can be switched to the output via the IR remote control. When Manual mode is selected, the same can be done by pushing the video select buttons on the front panel.

SINGLE SOURCE OPERATION

When only one source device, such as a VCR, is connected, always connect the device to the CV/SV Switcher's AV1 input. Because AV1 is the default input, it will automatically be fed to the AV outputs when the CV/SV Switcher's power plug is pulled out of the switcher. All of video in/output selections will remain in switchers memory for as long as the power plug stays in the switcher. When the CV/SV switchers power button is turned off, it will not reset any settings.

DUAL OUTPUTS

Both of the CV/SV outputs will have the same signal that has been selected by internal switching logic of CV/SV Switcher. These dual outputs are provided for convenience.

FRONT VIEW:

Power SW: ON/OFF

IR: Remote Controller receiver

Video Select: Video 1~4 Buttons

REAR VIEW:

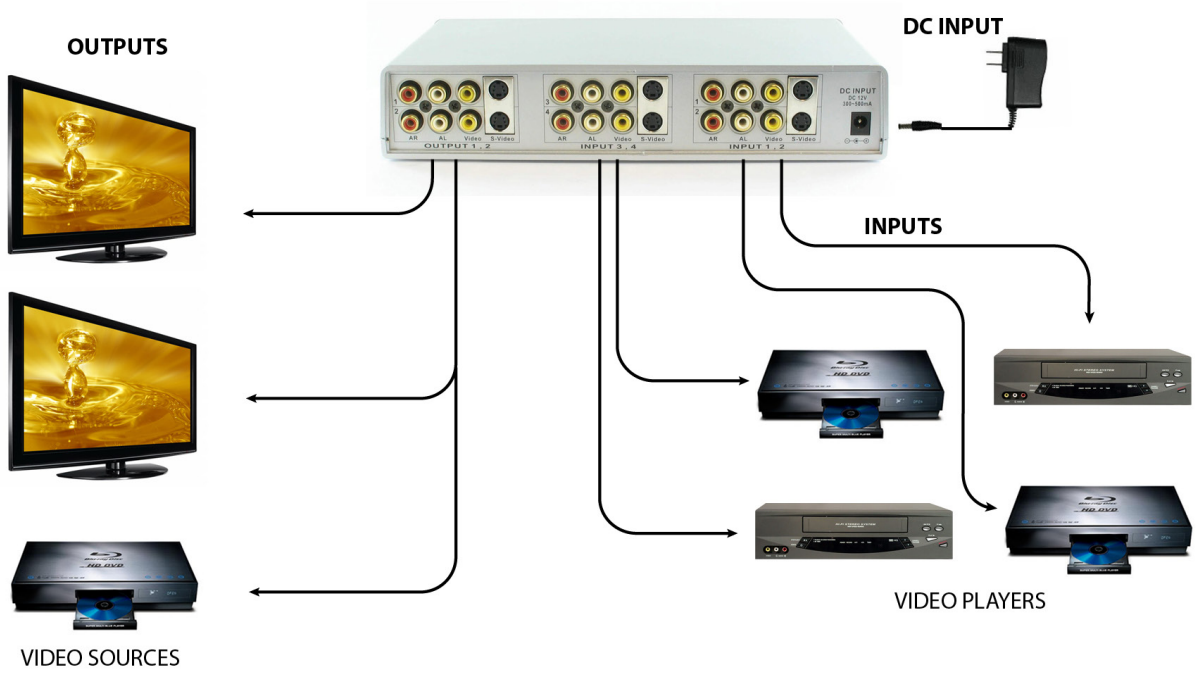
Input: (4) Composite/S-Video/Audio
Output: (2) Composite/S-Video/Audio
Power DC Supply: DC12V@420mA

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.

4X2 COMPOSITE/ S-VIDEO(Y/C) VIDEO SWITCHER

Applications: VCR, Video CD, DVD Player



CONFORMANCE TEST REPORT

FOR **EN 55013 / EN 55020 - REPORT NUMBER: ET93S-09-213-01**

FOR **FCC 47 CFR/Part 15 Subpart B -** **REPORT NUMBER: ET93S-09-213-02**

Model Number: SB-5430

Comment Number: SB-3680, SB-3681, SB-3682, SB-5430, SB-5440, SB-5450, SB-5460, SB-5470

Input: Audio/Video system (Composite or S-Video)/Stereo Audio system (R/L)

Output: Audio/Video system (Composite or S-Video)/Stereo Audio system (R/L)

Power Supply: +DC12V@420mA

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