

Instruction Manual



MODEL : SB-5470M
4x2 C O M P O N E N T - A U D I O M A T R I X S W I T C H E R

Component Matrix Switcher Series

Thank you for purchasing the SB-5470M Component 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 4x2 Component Video-Audio Matrix Switcher.



SAFETY INFORMATION



1. 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.
2. Read all documentation before operating your equipment. Retain all documentation for future reference.
3. Follow all instructions printed on unit chassis for proper operation.
4. Do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
5. Make sure power outlets conform to the power requirements listed on the back of the unit.
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. 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.
8. Mains 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.
9. Power down & disconnect unit from mains voltage before making connections.
10. Never hold a power switch in the " ON " position.
11. Do not use the unit near stoves, heat registers, radiators, or other heat Producing devices.
12. 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 matter.
13. Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.
14. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
15. Non-use periods. The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.
16. 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.

IMPORTANT SAFETY INSTRUCTIONS

To insure the best from this product, please read this manual carefully. Keep it in a safe place for future reference.

To reduce the risk of electric shock, do not remove the cover from the unit. No user serviceable parts inside. Refer servicing to qualified personnel.

To reduce the risk of fire, do not expose the unit to rain, water or excessive moisture.

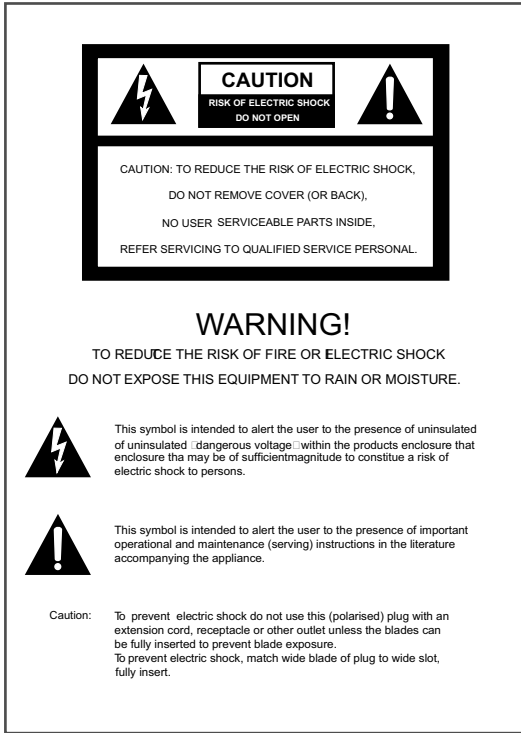
Do not force switched or external connections.

When moving the unit disconnect the serial port connections first then the power cable and finally the interconnecting cables to other devices.

Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Use a clean dry cloth.

Installation of this unit should be in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold.

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INSTRUCTION

SB-5470M is a high speed Video Bandwidth 250MHz, Maximum 300Mhz Matrix router switcher product. Its one of the most innovative Component Video(YPBPR), and Stereo Audio(AR/AL) switching products on the market Today. Support 19 inch Ear mount pair part number #1U-300L and MRM is 19 inch 1RU Rack mount type. It has 4 individual inputs with 2 individual outputs. 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 Component Video and Stereo Audio input and output cables. This matrix switcher is ideally suited for full HD High Definition LCD HDTV Television for resolution 480p, 720p 1080i and 1080p or Plasma display monitor applications. Control is provided via Front pushbuttons with LED readout or IR remote controller.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton :

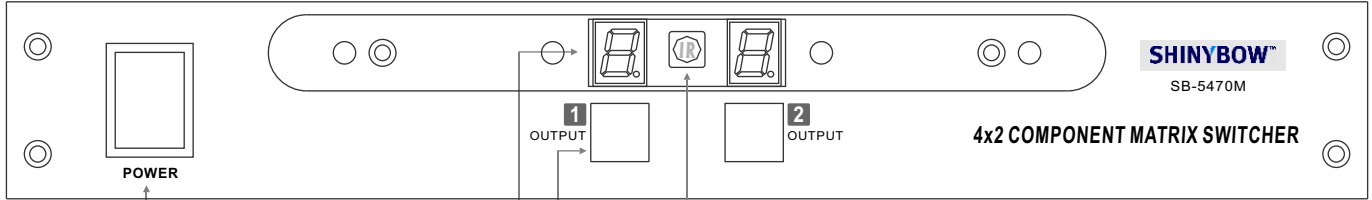
1. Main console unit
2. Operating Instructions
3. IR Remote Controller (SW-5470)
4. 19 inch 1D(1RU) high Ear mount pair (part # 1U-300L)
5. Power Supply 12VDC, Universal Type 50/60Hz, 100 or 230 VAC

Note :

Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or Shinybow immediately. Have the model number, Serial Number and Invoice available for reference when you call.

FRONT / REAR 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 OUTPUT SOURCES STATUS LED DISPLAY

Output channel 1 to 4 show from LED display illuminates red to indicate that a video source is present on that input.

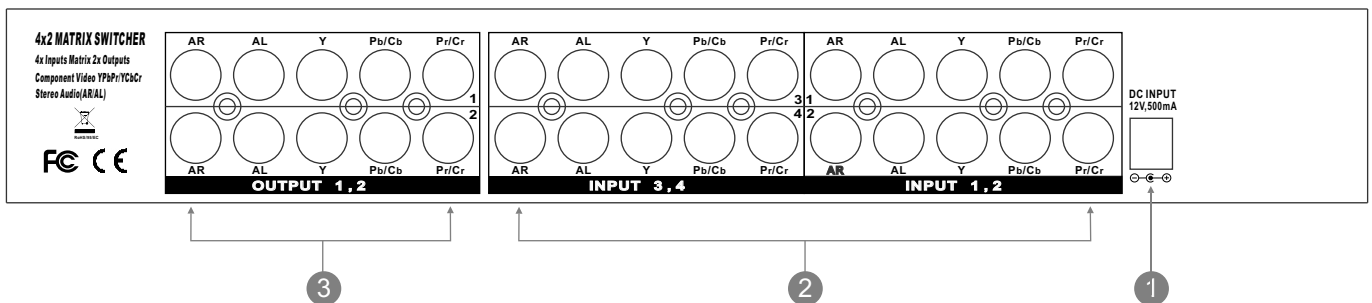
3 UP/DOWN SELECT INPUT SOURCES

Setup the input sources 1 ~ 4 channels

4 IR SENSOR

The IR sensor receives IR commands from the supplied remote controller.

REAR PANEL



1 DC POWER INLET

The SB-5564 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 0.66A Max. ⊖ ⊕

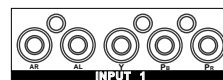


Power Jack:
DC Jack - inner OD Ø 2.1mm (+)
Outside OD Ø 5.5mm (GND)
Power input - 12VDC, 0.66A

3 INPUTS-1~4 COMPONENT-AUDIO

Connect a signal source of Component Video(YPBPR)/Stereo Audio devise to 4x2 switcher.

Input 1~ 4 port source signals :
- Component Video(YPBPR), 3x RCA Connectors
- Stereo Audio(AR/AL), 2x RCA Connectors



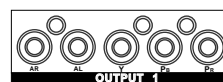
Component Video (YPbPr) Via 3x RCAs
Stereo Audio(AR/AL) Via 2x RCA connectors

Note:
With 6x RCA female connectors.

4 OUTPUTS-1~ 2 COMPONENT-AUDIO

Connect a signal of Component Video(YPbPr)/audio direct to Female RCA connector. This connector supports component video & audio to HDTV display device.

Output 1~ 24 display port signals :
- Component Video(YPbPr), 3x RCA Connectors
- Stereo Audio(AR/AL), 2x RCA Connectors



Component Video (YPbPr) Via 3x RCAs
Stereo Audio(AR/AL) Via 2x RCA connectors

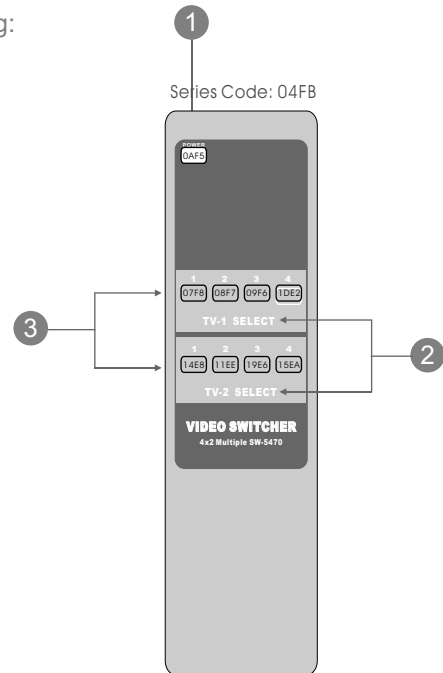
Note:
With 5x RCA female connectors.

REMOTE CONTROL - TYPICAL APPLICATION

Before making any connections to the SB-5470M. Observe the following:

REMOTE CONTROL

- 1 SWITCH POWER ON or OFF
Controller with a separate power ON and OFF
- 2 OUTPUT 1~ 2 : OUTPUT TO TV DISPLAYS
Output -1 : TV-1 Component Video (YPbPr) HDTV Display
Output -2 : TV-2 Component Video (YPbPr) HDTV Display
- 3 INPUT 1~ 4 : INPUT VIDEO SOURCES SELECTION
Input -1 : AV-1 Component Video (YPbPr) Signal source device
Input -2 : AV-2 Component Video (YPbPr) Signal source device
Input -3 : AV-3 Component Video (YPbPr) Signal source device
Input -4 : AV-4 Component Video (YPbPr) Signal source device



6x Component sources to 4x Component Output Matrix Switcher

INSTALLING

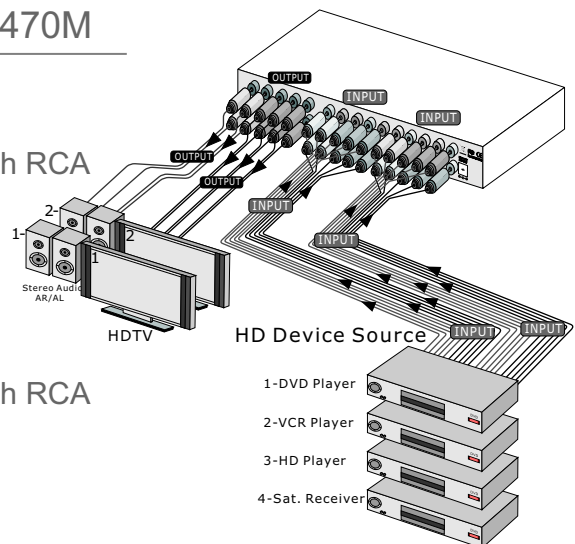
SHINYBOW
SB-5470M

INPUTS 1 ~ 4 PORT COMPONENT SOURCES :

COMPONENT VIDEO : Component Video(YPbPr) with RCA
AUDIO : Stereo Audio (AR/AL), with RCA

OUTPUT 1 ~ 2 PORT HDTV DISPLAY SIGNALS :

COMPONENT VIDEO : Component Video(YPbPr) with RCA
AUDIO : Stereo Audio (AR/AL), with RCA



SB-5470M SUPPORT COMPONENT FOUR INPUTS MATRIX TO TWO SWITCH OUTPUTS
SUPPORT FRONT PANEL DIRECT SELECTION & CONTROL IR REMOTE CONTROL

FEATURES & SPECIFICATIONS

FEATURES

1. Supports 4x inputs to 4x outputs Component Video(YPBPR) Matrix Switcher
2. Input/Output signals via Component Video(YPBPR) & Stereo Audio(AR/AL)
3. Higher Video Bandwidth 250MB each path signals.
4. Supported HDTV high definition resolutions 408p, 576i/p, 720p, 1080i/1080p
5. Compatible with all Component Video devices, Plasma TV display and HDTV
6. Support desktop with Ear mount and 19 inch Rack mountable type panel
7. Power supply DC12Volt, Universal Type Switch 100~230VAC, 50/60Hz

SPECIFICATIONS

| | |
|-------------------|--|
| Type of Switcher: | 4 in To 2 out, Component Video-Audio Matrix Switcher |
| I/O Signals: | Component Video (YPBPR) 0.5~1.0Vpp, DDC 5Vpp, Stereo Audio (AR/AL), Via 2x RCA connector(Red/white) |
| Video Bandwidth : | 250MHz (-3db), 60mVp-p |
| Video Supported: | Higher resolution formats 480i/p, 720p & 1080i/p |
| Audio Supported: | Stereo Audio(AR/AL), 20Hz ~ 20KHz |
| Controls: | IR remote Controller and Select buttons on the front panel |
| Chassis Material: | Metial (T=1mm) |
| Safety Approvals: | CE, FCC, RoHS(2002/95/EC). |
| Dimensions (LWH): | 11.96 " x 5.90 " x 1.73 " (304mm x 150mm x 44mm) |
| Power Supply: | DC12V / 0.66A (consumption 0.42A Max) Use Universal Switch Type 50/60Hz,100~230 VAC |
| Shipping Weight : | 1.85 Kgs / 3.08 lb |

OPERATING THE UNIT

Once you have connected the SB-5564 as described above, you must be certain that the input 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 SB-5564 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 SB-5564.

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 SB-5564, 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 SB-5564 to the carious devices you wish to feed a signal to. Lastly, connect the AC to DC adaptor, connect the DC connector to the SB-5564 first and then plug the adaptor into a functional AC outlet.

LIMITED WARRANTY

SHINYBOW WARRANTY

SHINYBOW Technology warrants this product against defects in materials and workmanship for a period of **1 year** from the date of purchase.

Should this product, in SHINYBOW Technology's opinion, prove defective within this warranty period, SHINYBOW Technology, at its option, repair this product without charge, to whatever extent it shall deem necessary to restore said product to proper operation condition.

This warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, and abnormal operating condition or non-SHINYBOW Technology authorized modification to the product.

If repairs are necessary under the warranty policy, the original purchaser must return the product to local distributor, freight prepaid.

After repairs are complete, the product will be returned.

REGULATORY COMPLIANCE

The product complies with the relevant standards for CE, FCC and RoHS approval.

The power Adaptor/Supply has been tested for compliance with UL, CSA and CE standards.

TROUBLESHOOTING

If you experience a <no signal> with this switcher or distributor outputs, first make certain that the signal being fed to its inputs is acceptable.

Disconnect the cables from the this switcher or distributor inputs and connect them directly to an appropriate monitoring device, if you do not see or hear a signal the problem may well be the signal source itself. Also check that the AC outlet you have used to power the switcher or distributor is actually providing power as a wall switch often controls an AC outlet.

The second most common problem with this switcher or distributor revolves around the cables, inspect the cables for loose connectors or cable damage such as crushed cable or cables with cuts or nicks. Replace any cable exhibiting these problem.

You also must use the highest quality cables if you want to achieve the best results. Poor quality cables provide will poor quality signals.

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