SHINYBOW™

MULTIMEDIA AUDIO AND VISUAL

Instruction Manual

MODEL : SB-4106
4x1 VGA ROUTING SWITCHER

4x1 VGA Routing Switcher Series

Thank you for purchasing the SB-4106 VGA Router Switcher. You will find this unit easy to install and highly reliable but it is essential that you read this manual throughly before attempting to use 4x1 VGA Router Switcher.
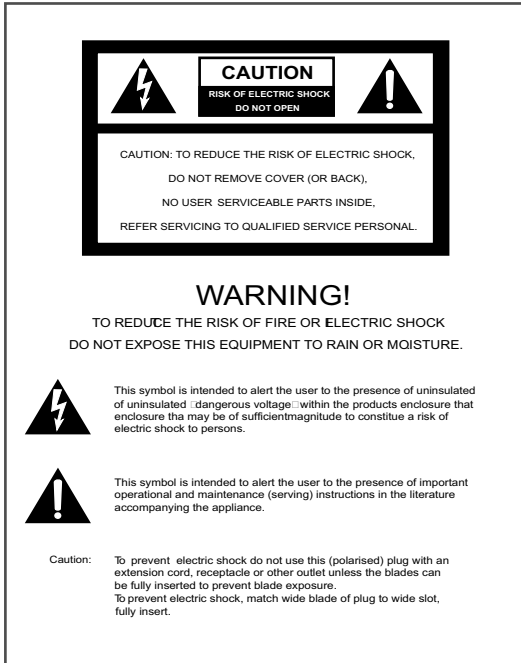
CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK),

NO USER SERVICEABLE PARTS INSIDE,

REFER SERVICING TO QUALIFIED SERVICE PERSONAL.

WARNING!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

This symbol is intended to alert the user to the presence of uninsulated
of uninsulated dangerous voltage within the products enclosure that
enclosure tha may be of sufficientmagnitude to constitue a risk of
electric shock to persons.

This symbol is intended to alert the user to the presence of important
operational and maintenance (serving) instructions in the literature
accompanying the appliance.

Caution: To prevent electric shock do not use this (polarised) plug with an
extension cord, receptacle or other outlet unless the blades can
be fully inserted to prevent blade exposure.
To prevent electric shock, match wide blade of plug to wide slot,
fully insert.

INSTRUCTION

Congratulations on your purchase of one of the most innovative VGA(RGBHV) 4x1 router matrix switching products on the market Today. The **SB-4106** is a true routing Switcher for VGA(RGBHV) signals.
It has 4 individual VGA(RGBHV) inputs with 1 individual RGBHV outputs. Because it is a router, any input may be routed to output.
It completely eliminates the need to constantly move around VGA video input cables and output cables.
The **SB-4106** is useful for routing signals from VGA source devices (such as: Personal computer, Set Top Box, and Satellite Receivers, etc.) To VGA destination devices (Such as LCD Monitors, VGA Monitors, Plasma LCD TV, VGA Projectors, etc.). Selection of inputs is made via the front panel push buttons or an Infrared Remote Control unit.

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-4106**)
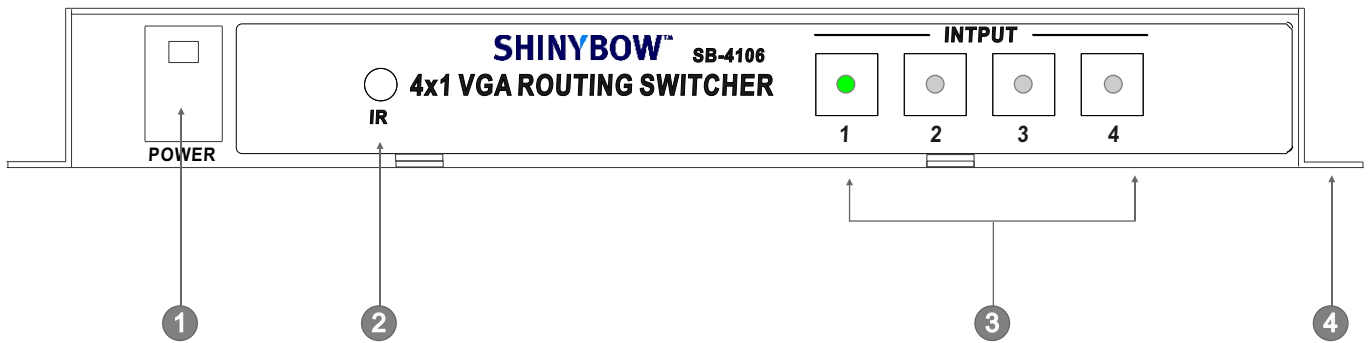4. Power Supply 12VDC, Universal Type 50/60Hz, 100~230 VAC

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

3 SOURCE DEVICE SELECT BUTTONS
A direct output 1 thru 4 source select buttons are
provided for each destination.

4 1" INCH WALL MOUNT PAIR
1" inch wall mount brackets (Optional)

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.
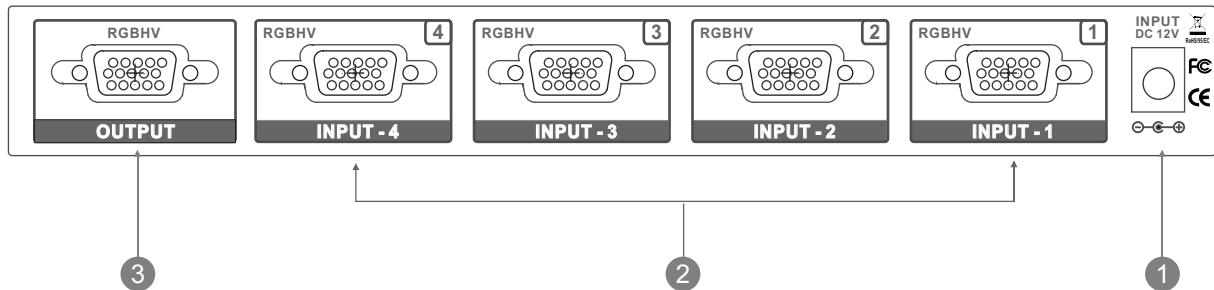
When not using the unit for a long period of time. Insure that the AC power cord is disconnected from the wall outlet.

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.

## REAR PANEL

1 DC POWER INLET

The switcher is fitted with a DC power plug input connector. Please ensure that the plug used is of an approved type and is of sufficient current carrying capacity with the correct voltage and connector polarity. 12Volt DC power supply 660mA Max.

Power Jack:
DC Jack - inner OD $\emptyset$ 2.1mm (+)
            Outside OD $\emptyset$ 5.5mm (GND)
Power input - 12VDC, 660mA
Switcher power supyler use universal
Part number : TA 007

2 INPUT : 1~4 VGA SOURCES

Connect a signal source of VGA (RGBHV) devise via VGA cable output to 4x VGA Monitor displays
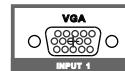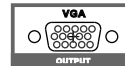
VGA (RGBHV) Via 1x HD-15p connector

Note:
With 1x female D-Sub connector.

3 OUTPUTS : VGA DESTINATIONS

Connect a signal of VGA via VGA cable output to VGA Monitor displays from 4x VGA input source devices.

VGA (RGBHV) Via 1x HD-15p connector

Note:
With 1x female D-Sub connector.

OPERATING THE UNIT

Once you have connected the switcher 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 switcher 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 switcher.

REMOTE CONTROL

Before making any connections to the **SB-4106**. 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 distance

> Connect all audio video sources and destination equipment

> power up all source and destination visual sources

> For each destination output select the appropriate input source by using
  The front panel input 1~4 select buttons. The supplied IR remote control.

> Upon power up the switcher will return to its last used setting before
  Powered down.

REMOTE CONTROL

① SWITCH POWER ON or OFF
  Controller with a separate power ON and OFF

② INPUTS : 1~4 VGA DEVICE SOURCES

  Input - Source 1 :   VGA Signal source device # 1

  Input - Source 2 :   VGA Signal source device # 2

  Input - Source 3 :   VGA Signal source device # 3

  Input - Source 4 :   VGA Signal source device # 4

①

POWER
0BF4

VIDEO SELECT

1   2   3   4
10EF 00FF 1BE4 18E7

②

SCART SWITCHER
SW-5510
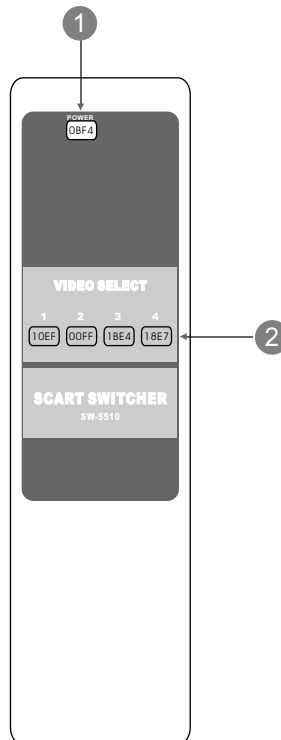
HOW TO SETUP IR CODES :

IR TYPE : uPD6121G
IR CODE : 08F7
POWER ON : 08F7 0BF4
POWER OFF : 08F7 0BF4

INPUT#1 : 08F7 10EF
INPUT#2 : 08F7 00FF
INPUT#3 : 08F7 1BE4
INPUT#4 : 08F7 18E7

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

FEATURES

1. Supports 4x inputs VGA to 1x VGA outputs Routing Switcher
2. Input signal type VGA (RGBHV)
3. Output Signal type VGA to VGA Monitor display
3. Higher Video Bandwidth 325MB each path R,G,B signals.
4. Supported HD high definition resolutions XGA, SXGA, UXGA, WSXGA, WUXGA
5. Compatible with all VGA Video Monitor devices, Plasma display and Projectors
6 Various User Interface controls:

      Manual controlled by Front Panel button

      IR remote control

7. Support desktop with wall mount type
8. Power supply DC12Volt, Universal Type Switch 100~230VAC, 50/60Hz

SPECIFICATIONS

Type of Switcher:	4 in To 1 out, VGA (RGBHV) Matrix Switcher
Input ports: Group	4x VGA (RGBHV) via HD-15p VGA connector
Output ports: Group	1x VGA (RGBHV) via HD-15p VGA connector
Video Bandwidth :	325MHz (-3db), 200mVp-p
Video Supported:	Higher resolution formats HD 1920x1200 (WUXGA)
Audio Supported:	Stereo Audio
Controls:	IR remote, Select buttons on the front panel
Chassis Material:	Metal thin=1mm
Safety Approvals:	CE, FCC, RoHS(2002/95/EC).
Dimensions (LWH):	8.25″ x 4.75″ x 1.00″ (210mm x 120mm x 25mm)
Power Supply:	DC12V / 0.5a~0.66A (consumption 380mA Max)
	Use Universal Switch Type 50/60Hz,100~230 VAC
Shipping Weight :	0.85 Kgs / 1.45 lb

TYPICAL APPLICATION

4x VGA source devices to 1x VGA Display Matrix Switcher

SHINYBOW
SB-4106
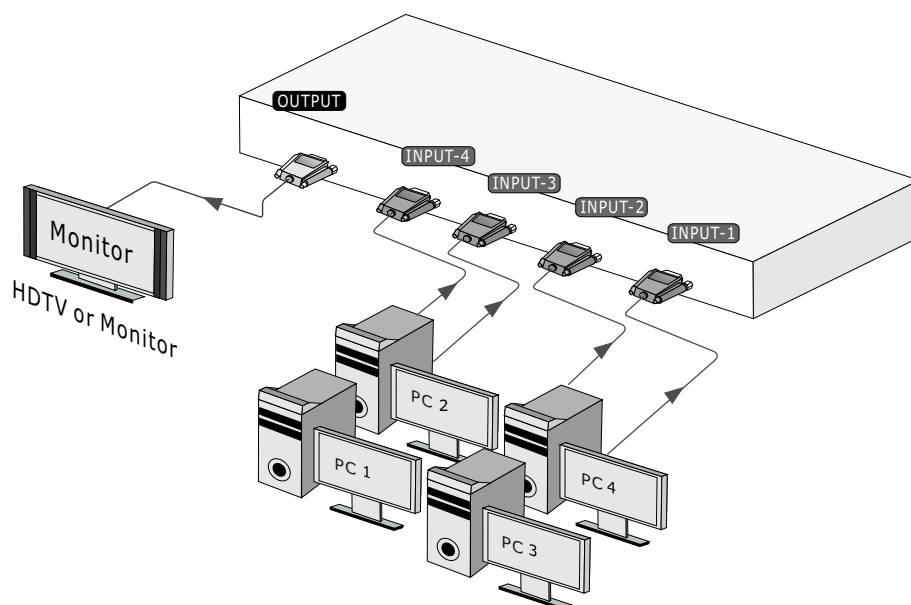
INSTALLING

CONTROL PORTS :
1. IR REMOTE   - IR Remote Controller
2. FRONT PANEL - Selection Buttons

INPUTS 1 ~ 4 PORT VGA SOURCE DEVICE SIGNALS :
VIDEO   - VGA (RGBHV), connector with HD-15p (D-Sub)

OUTPUT PORT VGA CONNECT TO DISPLAY MONITOR SIGNALS :
VIDEO   - VGA (RGBHV), connector with HD-15p (D-Sub)

SB-4106 SUPPORT VGA FOUR INPUTS ROUTER TO ONE SWITCH OUTPUT
SUPPORT CONTROL IR & FRONT PANEL SELECTION BUTTONS

SHINYBOW™
MULTIMEDIA AUDIO AND VISUAL

SHINYBOW WARRANTY

SHINYBOW Technology warrants this product against defects in materials and workman ship 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 he 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.