INSTRUCTION MANUAL

SB-1108G

1x8 VGA (RGBHV) Distribution Amplifier Splitter



SHINYBOW™ USA

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 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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VGA RGBHV Distribution Amplifiers Series

Thank you for purchasing the SB-1108 VGA (RGBHV) distribution amplifier. 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 amplifier.

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INTRODUCTION

Congratulations on your purchase of one of the most innovative VGA signal distribution products on the market today, the SB-1108 with (8) VGA outputs. This product provides (8) VGA outputs that are identical to the VGA source signal. This is useful for distributing signals from a high resolution quality VGA 2048 x 2048 computer to (8) separate components.

PACKAGE CONTENTS

Check that you have the following components;

- SB-1108G VGA Distribution Amplifier
- Users Guide
- AC/DC Adapter: 12VDC, 300mA
  AC/DC Adaptor Types : CE/UL/SAA/BS

CONFORMANCE TEST REPORT

FOR **EN55020 / EN55024** CE

REPORT NUMBER: ET93S-12-050-1

FOR **FCC 47 CFR/Part 15 Subpart B** FC

REPORT NUMBER: ET93S·12·050·02

Model Number: SB-1108G

Comment Number: SB-1116(G), SB-1112(G), SB-1110(G), SB-1108(G), SB-1106(G), SB-1104(G), SB-1102(G)

Input: VGA (RGBHV), HD-15Pin Connector
Output: VGA (RGBHV), HD-15Pin Connector
Power Input: +DC12V,@300~660mA

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

- (1) input to (8) outputs VGA Distribution Amplifier
- Large Signal Bandwidth 440MHz, G=+2
- Small signal Bandwidth (-3dB) 1GHz, G=+1
- Settling Time 10 ns to 0.1%, 2 V Step, G=+2
- Low Distortion over Wide Bandwidth
- High resolution for VGA, SVGA, XGA, UXGA, WUXGA 1920x1200
- High Output Drive 175mA Output Load Drive
- Support Lower power consumed full load under 300mA

SPECIFICATIONS

- **Model Number:** SB-1108G 1x8 VGA DISTRIBUTION AMPLIFIER
- **Type of Amplifier: (**1) Input to (8) Outputs VGA Distribution Amplifier
- **I/O Signals:** RGBHV, RGBS, RGsB (RGB Level Range 0.5-2.0 Vp-p)
- **Video Bandwidth:** Large signal 440MHz, small signal(-3dB) 1GHz
- **Slew Rate:** 5500V/as, 4VStep, G=+2
- **Scan Rates Accepted:** 50Hz or 60Hz
- **Settling Time:** 10ns to 0.1%, 2VStep, G=+2
- **Gain flatness:** 0.1dB to 75MHz, Rl=150% 0.01% differential gain error; RL=150% 0.01 differential phase error; Rl=150%
- **Low Distortion SFDR:** -66dBc@20Mhz, Second Harmonic 1. -75dBc@20Mllz, Third Harmonic
- **High Resolution:** Maximum 2048x2048
- **Amplifier Unit:** FCC, CE, RoHS (2002/95/EC)
- **Power Supplies:** UL, CE, CSA, TUV, BS
- **Power Distortion:** 400mA full load
- **Enclosure Type:** Support wall mountable
- **Dimensions (WxDxH):** 8.66 x 4.52 x 1.73 in (220x115x44 mm)
- **Power Voltage Input:** DC 12V@500mA, ~3A accepted

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

TYPICAL HOOKUP AND OPERATION

SB-1108



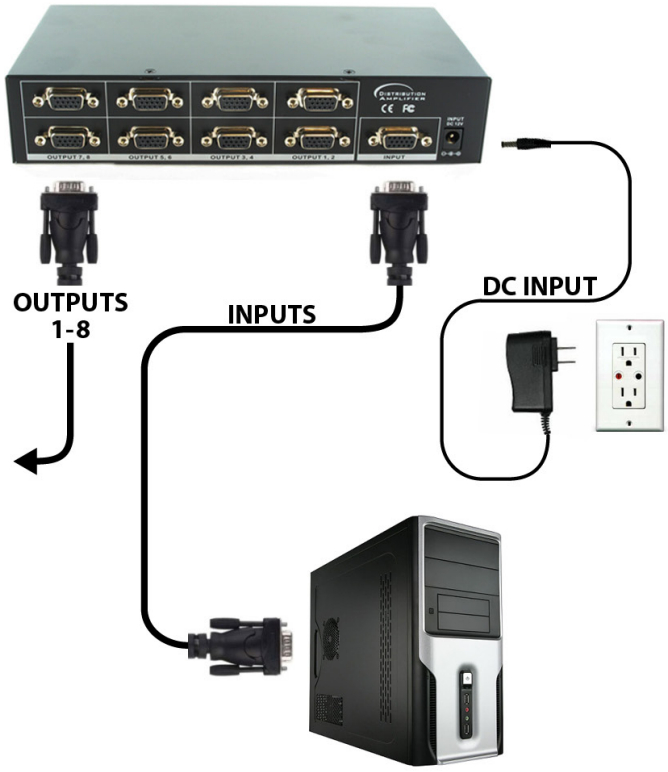
Safeguards and Precautions

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.

VGA 1 TO 2 DISTRIBUTION AMPLIFIER

APPLICATIONS: 2048 x 2048 High Resolution Monitors





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