INSTRUCTION MANUAL

SB-3706BNC

1x8 Video Distribution Amplifier (BNC)



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 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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INTRODUCTION

Composite Video Distribution Amplifier Series

Thank you for purchasing the SB-3706BNC Composite Video (8) Way 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.

Congratulations on your purchase of the SB-3706BNC Composite Video Signal Distribution Amplifier. The SB-3706BNC is a compact composite video distribution amplifier that supports (8) outputs composite video outputs that are identical to the source signal. Ideal for distributing video signals from DVD, Video Game Console, Satellite Receivers, Cable/Satellite Box, etc. up to (8) screens. The SB-3706BNC composite splitter is designed to support high resolution video for up to 200 ft output cable runs.

FEATURES

- Maintains high resolution video signal over long distance output cables
- All Outputs are mirrored
- Buffered Input and amplified Outputs
- Supports high resolution video signals up to 200ft
- Gold plated BNC jacks
- Supports PAL and NTSC signals
- Optional rack mount kit

PACKAGE CONTENTS

Check that you have the following components;

- SB-3706BNC Amplifier
- AC/DC Adapter: 12VDC@420mA AC/DC Adaptor Types: CE/UL/SAA/BS
- Users Guide

- **Type of Amplifier:** 1x8 Composite Video Distribution Amplifier
- **Input Video:** (1) BNC (female) Composite Video 75Ohms, 1Vpp
- **Output-Video:** (8) BNC (female) Composite Video 75Ohms, 1Vpp
- **Video Bandwidth:** 110MHz (-3dB) (G =/+1)
- **Video Amplifier Bandwidth:** 250MHz
- **Audio Frequency Response:** 20Hz~20KHz, +0.05dB
- **Scan Rate:** 50Hz/60Hz
- **Settling Time:** 50ns to 0.1%
- **Low Power:** 4.4mA / Amplifier
- **Low Distortion:** -80dBk total harmonic @1MHz, RL= 100Ž½
- **Slew Rate:** 1000V/as
- **Gain Flatness:** 0.1dB to 20MHz, RL=150%
- **Differential Gain Error:** 0.03%, RL=1k%
- **Differential Phase Error:** 0.03%, RL= 1k%
- **In/Out Terminal:** BNC connectors
- **Enclosure Type:** Metal case
- **Power Consumed:** 200mA Max
- **Power Supply:** DC 12 Volts@420mA
- **Dimensions (LxWxH):** 6.93 x 3.14 x 1 in (176x80x25mm)
- **Weight:** 1.0 lb (Unit only) / 1.3 lb (Net) / 2 lb (Shipping)

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

TYPICAL HOOKUP AND OPERATION



Inputs: (1) Composite Video (BNC)
Outputs: (8) Composite Video (BNC)
DC Input: 12V@420mA
Power SW: On/Off

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.

CONFORMANCE TEST REPORT

FOR **EN 55013 / EN 55020 - REPORT NUMBER: ET93S-06-168-1**

FOR **FCC 47 CFR / Part 15 Subpart B - REPORT NUMBER: ET93S-06-168-02**

Model Number: SB-3706BNC

Comment Number: SB-3704, SB-3705, SB-3706, SB-3708, SB-3709, SB-3710, SB-3714, SB-3716, SB-3730, SB-3733, SB-3737

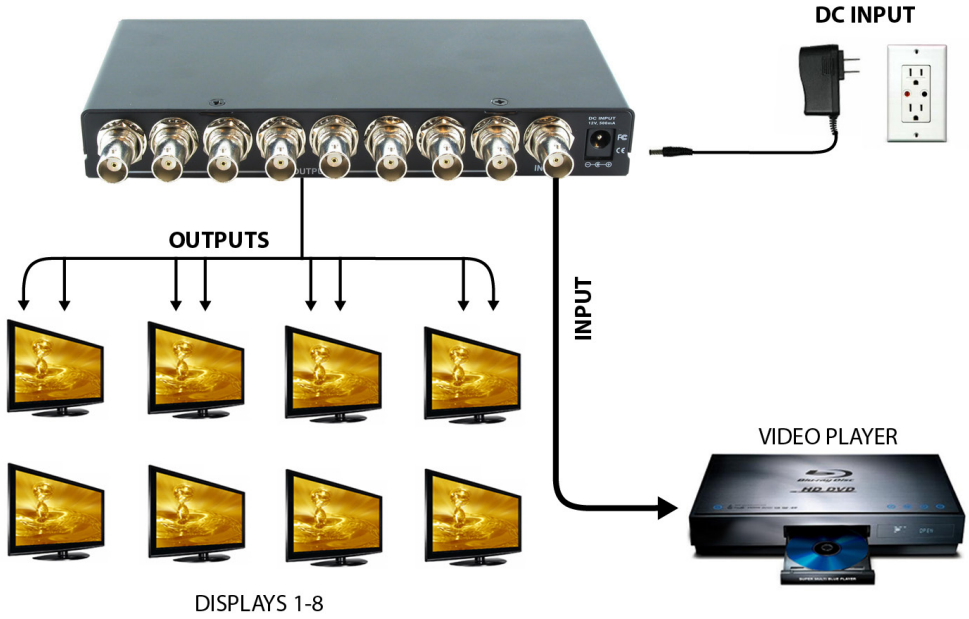
Input: Composite Video (BNC Connector)

Output: (8) Composite Video (BNC Connector)

Supply: +DC12V@420mA

8X COMPOSITE VIDEO DISTRIBUTION AMPLIFIER

Composite Video System: BNC Connector



LIMITED WARRANTY

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