

## HDMI/DVI > VGA Converter HDMI/DVI to VGA/Digital/Audio INSTRUCTION MANUAL



MODEL : SB-2833  
High Resolution VGA Converter

### *HDMI-DVI to Video Digital Converter Series*

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*Thank you for purchasing the SB-2833 HDMI/DVI to VGA/Digital/ST Audio/Video Converter. We highly recommend that you read this manual thoroughly before attempting to use this converter, so as to avoid any problems.*



## 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.

# INTRODUCTION

## CONFORMANCE TEST REPORT

FOR **EN 61000-6-1 / EN 61000-6-3**

**CE** REPORT NUMBER: ET94S-06-091-01

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

**FC** Report Number: ET94S-06-091-02

Model Number: SB-2833

Comment Number :

SB-2830, SB-2831, SB-2832, SB-2833, SB-2834, SB-2835,  
S8-2836, S8-2837, S8-2838, SB-2839

Input: HDMI / DVI (Digital Video)

Output: VGA, Digital and Stereo Audio

Power Input: +DC12V, @1250-2000mA 



**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 non-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

To prevent electric shock do not use this (polarized) 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.

## INTRODUCTION


Congratulations on your purchase of the Shinybow SB-2833, one of the most innovative video devices on the market today. This device has been specifically engineered to convert HDMI (Digital Video and Digital Audio) / and/or DVI (Digital Video) input signals to the source HD quality signals. It is useful for converting HDMI signals from High Resolution quality for HDMI to VGA monitors. VGA (RGBHV) Monitor with /Digital Audio (PCM) or/ Stereo Audio (R & L). The SB-2833 accepts HDMI or DVI inputs via HDMI or DVI connectors. It is designed to provide higher VGA resolution output quality than most similar devices, as the VGA output resolution can be set to be identical to the source HD input signals. It is useful for converting high resolution HDMI signals for use on VGA monitors.

### Before you make any connections

Make sure the computer is connected to the monitors distribution amplifier and everything is functioning correctly before connecting the converter. Always connect HDMI inputs to the VGA Monitors distribution amplifier one at a time and make sure each works correctly before proceeding.

### Supplied Accessories

Check that you have the following components in your converter package:

- (1) 1 Instruction Manual
  - (2) 1 SB-2833 Converter
  - (3) 1 AC Adaptor : 12VDC, @1250-2000mA 
- AC/DC Adaptor Types : CE/UL/SAA/BS

### Safety Notice!

To prevent damage to your equipment use only the supplied  
AC Adaptor and make the power connections to your television

# FEATURES & SPECIFICATIONS

## FEATURES

- Inputs: 1x HDMI (Digital Video/Audio) & 1x DVI (Digital Video)
  - Outputs: 1x VGA + Stereo Audio & 1x Digital Audio (PCM)
  - Automatic HDMI & DVI 480p, 720p and 1080i/p input detection
  - HDMI & DVI input selection by push buttons on front panel
  - Fully HDCP (High-bandwidth Digital Content Protection) Compliant
  - VGA Output resolution selections:
    - 0. SVGA (800x600)
    - 1. XGA (1024x768)
    - 2. SXGA (1280x1024)
    - 3. HD (1366x768)
    - 4. WXGA+ (1440x900)
    - 5. WSXGA+ (1680x1050)
    - 6. UXGA (1600x1200)
    - 7. WUXGA (1920x1200)
  - Supports Digital Audio (PCM) and Stereo Audio outputs
  - Supports wall type mount
  - Locking power jack
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## SPECIFICATIONS

- **Video/Audio Input Signals:**
  - HDMI: Digital Video (TMDS), Digital Audio (PCM), 1x HDMI connector
  - DVI: Digital Audio (TMDS) 1x DVI connectors, single link
- **Video/Audio Output Signals:**
  - VGA(RGBHV): 1x via HD-15 connector
  - Digital Audio: 1x via RCA connectors
  - Stereo Audio: 2x via RCA connectors
- **Video Bandwidth:** 350MHz, (-3 dB)
- **Audio Bandwidth:** 50Mhz, (-3dB)
- **Audio Frequency Response:** 20Hz~20KHz
- **Safety Approvals:** CE, FCC, RoHS(2002/95/EC)
- **Dimension(LxWxH):** 7 x 3.15 x 1 inches (176mm x 80mm x 25mm)
- **Power Supply:** 12VDC, Universal type 50/60Hz 100~230 VAC

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

# TYPICAL HOOKUP AND OPERATION

SB-2833



## Front:

- Power switch with power on indicator light
- Input selection switches: HDMI or DVI (only one can be selected at a time)

## Rear:

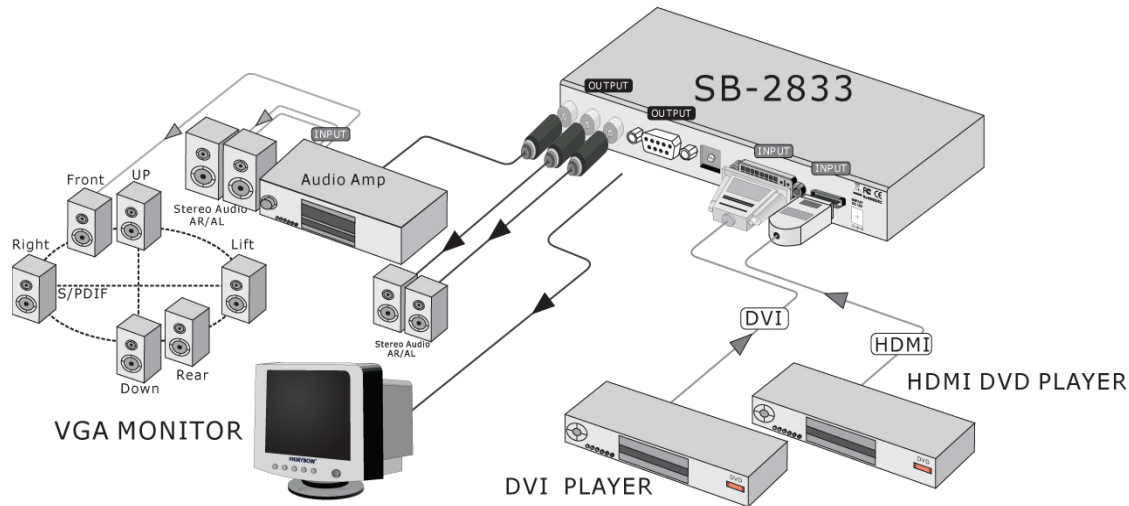
- 12 VDC locking power connector @ 1250-2000 mA
- HDMI input connector
- DVI input connector
- Resolution selector switch
- VGA output connector
- Digital audio output (orange RCA connector)
- Stereo analog audio output (red and white RCA connector, labeled “AR” for right and “AL” for left)

## VGA Output Resolution Selection:



- 0.SVGA (800x600)
- 1.XGA (1024x768)
- 2.SXGA (1280x1024)
- 3.HD (1366x768)
- 4.WXGA+ (1440x900)
- 5.WSXGA+ (1680x1050)
- 6. UXGA (1600x1200)
- 7.WUXGA (1920x1200)

# INSTALLATION INSTRUCTIONS



Before connecting power, verify that the switch on the power supply is set for the appropriate input voltage. The power input connector on the back of the unit is a locking connector. Be sure that it is well seated.

Inputs can be connected to both the HDMI and DVI input connectors, as they will be selected by the switches on the front panel. This allows the SB-2833 to be used as a audio/video switch as well. Be sure that connectors are firmly seated.

With a small non-conductive screwdriver, set the VGA output resolution selection to match the resolution of the inputs.

- 0.SVGA (800x600)
- 1.XGA (1024x768)
- 2.SXGA (1280x1024)
- 3.HD (1366x768)
- 4.WXGA+ (1440x900)
- 5.WSXGA+ (1680x1050)
6. UXGA (1600x1200)
- 7.WUXGA (1920x1200)

Connect the VGA output connector to the monitor to be used.

Connect either the digital audio output or the right and left analog audio outputs to an audio amplifier or to computer speakers. Please note that this is a line-level output and must be amplified before connecting to speakers.

*Important note:* HDMI provides connectivity for both audio and video signals, however DVI only provides connectivity for audio signals. Therefore, devices which are supplying a DVI input will need to have their audio connection run separately from the device's output to the audio amplifier.

Turn on power using the power switch on the front panel.

Select the HDMI or DVI input using the push-button selector switches on the front panel. Please note that only one can be selected at a time. Selecting the other device will automatically deselect the first.

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## 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.

# LIMITED WARRANTY

## SHINYBOW WARRANTY

SHINYBOW Technology warrants this product against defects in materials and workman ship for a period of 3 years from the date of purchase. Please be sure to send in your warranty registration card promptly, as the warranty will not be active without registration.

Should this product, in SHINYBOW Technology's opinion, after inspection, prove defective within this warranty period, SHINYBOW Technology, at its option, will repair or replace this product without charge, to whatever extent it shall deem necessary to restore said product to proper operation condition. This does not extend the warranty period.

This warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, and abnormal operating conditions 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 there is a signal being fed to its inputs from the connected device is acceptable.

Disconnect the cables from the 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.

Verify that there is power to the device. If the unit is receiving power, the power on indicator light in the power switch should be glowing.

The second most common problem with the 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 problems.

We recommend using the highest quality cables so that you can achieve the best results. Poor quality cables provide will poor quality signals.

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MULTIMEDIA AUDIO AND VISUAL

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1399 Wildfire Lane | Frisco, TX 75034

1-877-SHINY-USA

1-877-744-6987

1-972-377-2508

[sales@shinybowusa.com](mailto:sales@shinybowusa.com)

[www.shinybowusa.com](http://www.shinybowusa.com)