INSTRUCTION MANUAL

SB-6335T

HDMI HDBaseT™ TRANSMITTER up to 330 Feet
(2-way IR, RS-232, HDMI)



IMPORTANT WARRANTY INFORMATION.

If you remove the HDMI screw posts, you must use the provided HDMI Locking Post replacement screws to keep the internal HDMI jack secure. Removing the HDMI screws without installing the HDMI Locking Post replacement screws will void your warranty.

4K|2K CAPABLE

HDBT™

SHINYBOWUSA
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.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

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INTRODUCTION

HDBaseT™ with Ethernet 100M EXTENDER Series

Thank you for purchasing the SB-6335T HDBaseT™ with RS-232 Transmitter. 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 extender.

Congratulations on your purchase of one of the most innovative HDMI 1.4a over single category cable Transmitter with RS-232 on the market today. The SB-6335T HDBaseT™ Transmitter can transmit the HDMI signal, IR remote input or output signals and RS-232 I/O series interface to the HDBaseT™ Receiver (SB-6335R) via a single category LAN cable for the long distances up to a maximum 328 feet (100M). The Transmitter uses a single CAT6, CAT6a or CAT7 (UTP/FTP) category cable via a RJ-45 8P8C female socket. The LAN cable supports the 568a or 568b LAN color specification table. This product provides higher full HD HDMI 1.4a, HDTV resolution and support for 480i/p, 720p,1080i/p or High 4K2K quality that is identical to the source high quality full HDMI 1.4 signals. The Transmitter is useful for sending HDMI digital video & digital multi-channel audio format signals, IR remote in or out and RS-232 series in and out control signals via a single category cable transmitted to the HDBaseT™ Receiver.

PACKAGE CONTENTS

Check that you have the following components:

- SB-6335T HDBaseT™ Transmitter console
- SB-100 IR Extender Receiver Set
- SB-101 IR Extender Transmitter Set
- SB-100C IR Extender Receiver Cable (6.5ft (2M))
- SB-101C IR Extender Transmitter Cable (6.5ft (2M))
- 1 in High wall mount pack (Part # WM-1INCH-L80MM)
- HDMI Locking Post Replacement Screws
- AC/DC Adapter: 12VDC/2A (universal power switch 50/60Hz, 100~240VAC)
- Users Guide











- HDBaseT™ Transmitter extends the HDMI over single CAT5e/6/6a category 328 feet /100M LAN cable
- Transmits HDMI, IR in/out and RS-232 I/O series interface signals
- Uses a single CAT6, CAT6a and CAT7 (UTP or FTP) category cable
- Supports link speeds of up to 3.4Gbps, HDMI 1.4, full HD 4K2K signal, HDCP compliant
- Supports Digital RGB 36bits, HDMI digital video TMDS, digital multi-channel audio format
- Extends higher quality full HD DVI video WUXGA 1920x1200 resolution
- Supports High Definition worldwide range resolution 480p, 720p 1080i/1080p-60Hz and 4K2K
- Extends long distances up to 328 feet (100M) between HDBaseT™ Transmitter and Receiver
- Supports wall mount installation- total 10 pcs. into one 19 inch 4U rack mount
- Power input via DC with low power consumption (Full load 750mA)
- Power supply universal power switch 50/60Hz, 100~240VAC



LOOK A PUPPY!! NOW READ THIS!!

IMPORTANT WARRANTY INFORMATION.

If you remove the HDMI screw posts, you must use the provided HDMI Locking Post replacement screws to keep the internal HDMI jack secure. Removing the HDMI screws without installing the HDMI Locking Post replacement screws will void your warranty.

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.

SPECIFICATIONS

- **Type of Extender:** HDBaseT™ Transmitter for HDMI over single category 328 feet /100M Cable
- **Input Signals:** HDMI with Digital Video(TMDS)/Audio 0.5~1.0Vpp, DDC 5Vpp
- **HDBaseT™ Supports:** HDMI 1.4 Standard, DVI and HDCP Compliant
- **Video Supported:** HDMI and DVI TMDS format for 1920x1200 resolution up to 3.4Gbps Digital RGB 36bits deep color, 3D 1.4a HDMI format
- **Audio I/O Support:** Multi-channel Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- **Extender Distance:** Up to 328 feet (100M) via (UTP or FTP CAT6 100M cable)
- **Cable Supported:** CAT6, CAT6a, CAT7 use UTP or FTP category cable
- **Supports HDMI Resolutions:** 480p, 720p, 1080i/1080p@60Hz or 4K2K@24Hz
- **Scan Rate Accepted:** Supports HDMI full HD Resolutions; Frequency 24Hz to 60Hz
- **Control:** (1) IR in, (1) IR out and (1) RS-232 I/O series interface
- **IR Infrared Frequency:** 38KHz
- **Safety Approvals:** CE, FCC, VCCI, REACH & WEEE
- **Dimensions (LxWxH):** 5.12 x 3.14 x 1.14 in (130x80x29mm)
- **Wall Mount:** Wall mount pack (p/n:VM-1inch-L80MM)
- **Rack Mount:** Total 10 pcs installs into 19 inch 4U rack mount
- **Weight:** 0.375 kgs / 0.825 lb
- **Power Consumption:** Max 750mA (Full load 1080p-60Hz signal with use DC12V input)
- **Power Supply:** Power Input +12VDC, 2A, (Universal Type 50/60Hz, 100~240VAC)

** Does not support ARC.*

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

CONFORMANCE TEST REPORT

FOR **61000-6-1 / EN 61000-6-3 - REPORT NUMBER: 09-07-MAS-282-18-R**

FOR **FCC 47 CFR / Part 15 Subpart B - REPORT NUMBER: 09-07-MAS-282-19-R**

Model Number: SB-6335T

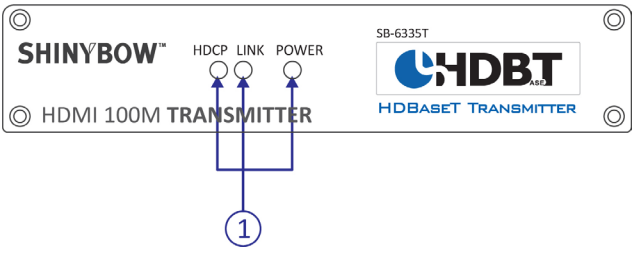
Comment Number: SB-6215, SB-6215R, SB-6215RE, SB-6220R SB-6220RE, SB-6240R, SB-6240RE, SB-6335, SB-6335R, SB-6320, SB-6320R

Input: HDMI ((with DVI -Audio)

Output: HDBaseT™ via CAT6/6a/7 Cable

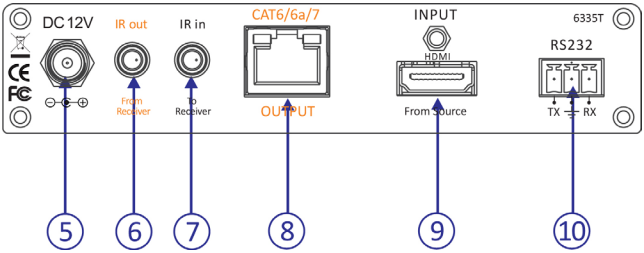
Power Input: +DC12V, 2A

FRONT PANEL:



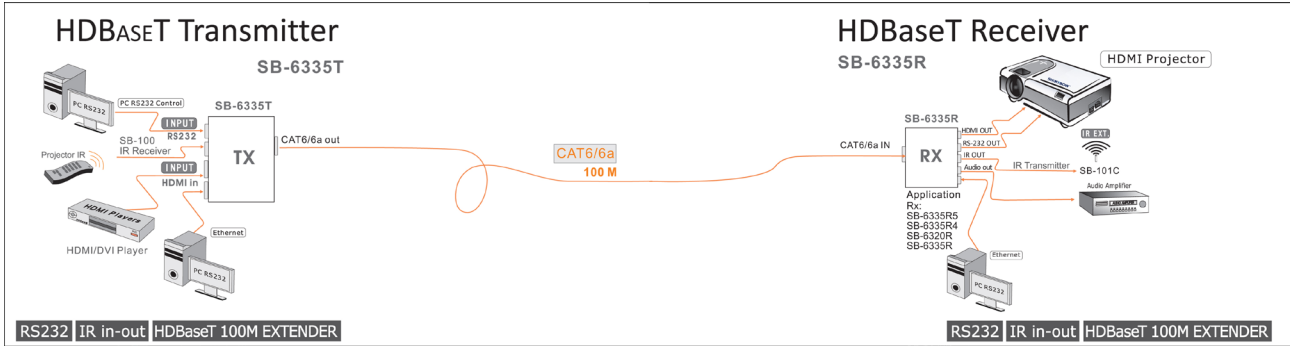
1. STATUS VIA LED SHOW OUT: POWER, LINK & HDCP

REAR PANEL:



5. DC INPUT: DC12V, 2A
6. IR OUT: Receives IR signal from the HDBaseT™ Receiver
7. IR IN: Sends IR Signal to the HDBaseT™ Receiver
8. RJ-45 OUT: HDBaseT™ signal output to the HDBaseT™ Receiver
9. HDMI IN: HDMI signal input from the HDMI source device
10. RS-232 I/O: RS-232 I/O series interface via HDBaseT™

If you remove the HDMI screw posts, you must use the provided HDMI Locking Post replacement screws to keep the internal HDMI jack secure. Removing the HDMI screws without installing the HDMI Locking Post replacement screws will void your warranty.


HDBaseT Transmitter
SB-6335T
PC RS232 Control
SB-6335T
INPUT
RS232
SB-100
IR Receiver
TX
CAT6/6a out
Projector IR
INPUT
HDMI in
HDMI Player
HDMI/DVI Player
Ethernet
PC RS232
CAT6/6a
100 M
HDBaseT Receiver
SB-6335R
HDMI Projector
SB-6335R
HDMI OUT
RS-232 OUT
IR OUT
Audio out
CAT6/6a IN
RX
IR Transmitter
IR EXT
SB-101C
Audio Amplifier
Application
Rx:
SB-6335R5
SB-6335R4
SB-6320R
SB-6335R
Ethernet
PC RS232
RS232
IR in-out
HDBaseT 100M EXTENDER
RS232
IR in-out
HDBaseT 100M EXTENDER

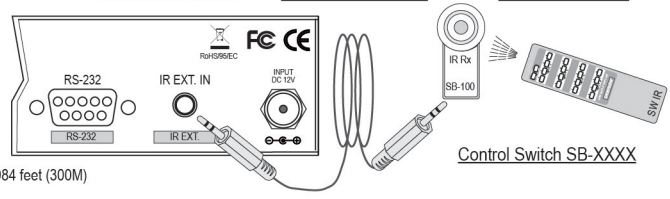
1. SB-100:
IR Receiver Set - 300M



Switcher IR EXT. In

Cable (3C)
Distance: Max.300M

IR Receiver (SB-100)
IR PN#: SB-XXXX



Control Switch SB-XXXX

SB-100 Maximum Distance ~ 984 feet (300M)

The SB-100 IR Receiver is required when using the port “ALL in” Jack.

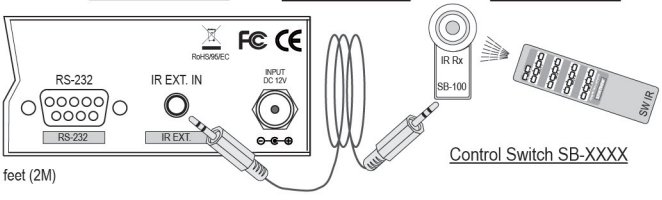
1. SB-100C:
IR Receiver Cable - 2M



Switcher IR EXT. In

Cable (2C)
Distance: Max.2M

IR Receiver (SB-100C)
IR PN#: SB-XXXX



Control Switch SB-XXXX

SB-100c Maximum Distance ~ 6 feet (2M)

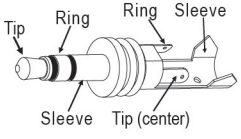
The SB-100C IR Receiver will not function on the port “ALL in” Jack.

*** When you plug the External IR extender into the switcher, the front panel IR receiver remains active. ***

Pin configuration for IR 984 feet (300M) Extender Receiver such as SB-100 compatible

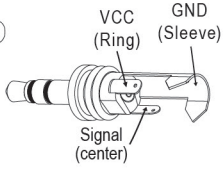
1. SB-100:
IR Receiver Set - 300M







Tip: Signal
Ring: VCC
Sleeve: GND

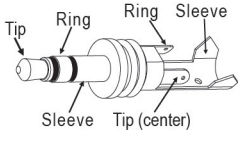


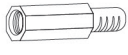
SB-100 Receiver and SB-100C Transmitter The DISTANCE maximum ~ 984 feet (300M)

Pin configuration for IR Receiver 6 feet (2M) cable such as SB-100C compatible

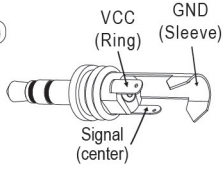
1. SB-100C:
IR Receiver Set - 300M







Tip: Signal
Ring: VCC
Sleeve: GND

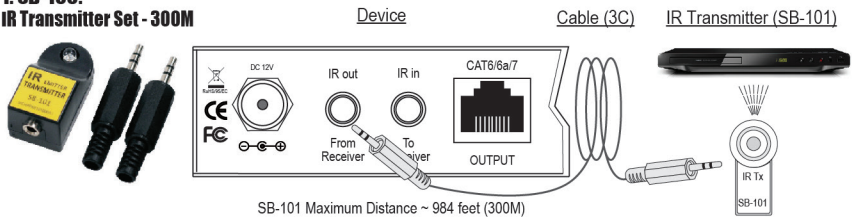


SB-100 Receiver and SB-100C Transmitter The DISTANCE maximum ~ 984 feet (300M)

Note: *The External IR jack has voltage on the “Ring” portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

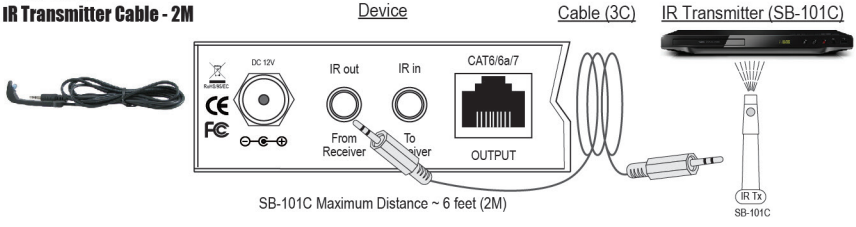
The frequency range of the IR emitter and receivers is 38KHz.

1. SB-100:
IR Transmitter Set - 300M



SB-101 Maximum Distance ~ 984 feet (300M)

1. SB-101C:
IR Transmitter Cable - 2M

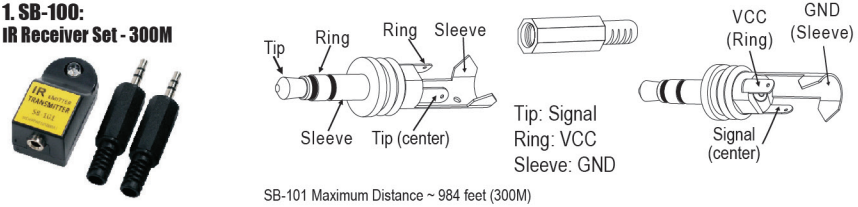


SB-101C Maximum Distance ~ 6 feet (2M)

*** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ***

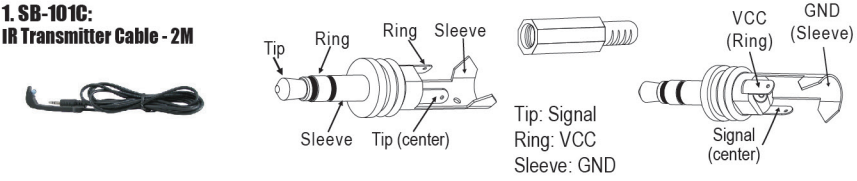
PIN CONFIGURATION:

1. SB-100:
IR Receiver Set - 300M



SB-101 Maximum Distance ~ 984 feet (300M)

1. SB-101C:
IR Transmitter Cable - 2M



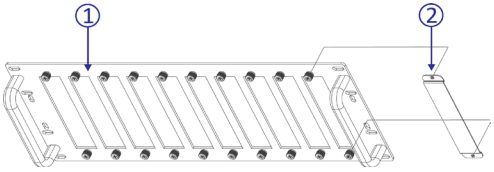
SB-101C Maximum Distance ~ 6 feet (2M)

Note: *The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.*

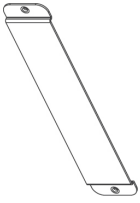
The frequency range of the IR emitter and receivers is 38KHz.

SB-6069

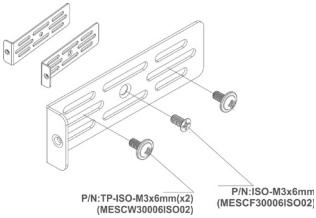
SB-6335T/SB-6335R 19 INCH 4U-10 UNITS RACK MOUNT

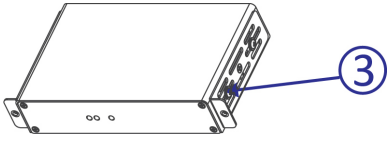


Model No.: #4U-10p-L130MM
SB-6335T/SB-6335R 4U Ear mount pairs
Parts No.: MEER6069ER13000



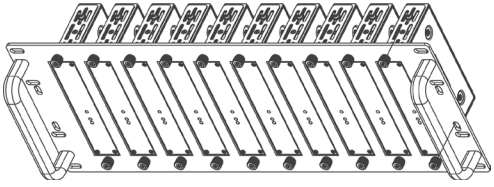
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SB-6335T/SB-6335R 4U Ear mount pairs
Parts No.: MEER6069ER11000

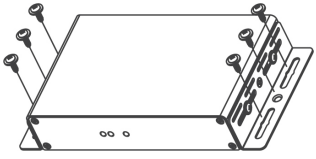


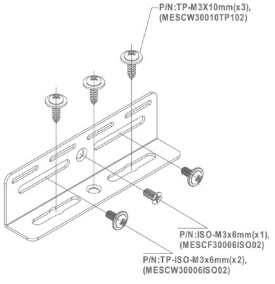


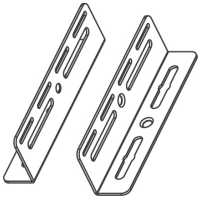
Model No.: #4U-10p-L80MM-EAR
SB-6335T/SB-6335R 4U Ear mount pairs
Parts No.: MEER6320ER11001

Complete 19 inch 4U rack mount: Install (10 units) Application: SB-6335T/SB-6335R









SB-6335T/SB-6335R: Wall mount accessories
Model No.: #WM-1INCH-L80MM
SB-6335T/SB-6335R Wall mount pairs
Parts No.: MEER6320ER11000

LIMITED WARRANTY

PLEASE READ THE FOLLOWING TERMS AND CONDITIONS CAREFULLY BEFORE USING THIS HARDWARE, COMPONENTS AND SOFTWARE PROVIDED BY, THROUGH OR UNDER SHINYBOWUSA, INC (COLLECTIVELY, THE "PRODUCT"). By using or installing the product, you unconditionally signify your agreement to these Terms and Conditions. If you do not agree to these Terms and Conditions, do not use the product and return the product to SHINYBOWUSA, Inc. at the return address set forth on the product's packing label at your expense. SHINYBOWUSA, Inc. may modify these Terms and Conditions at anytime, without notice to you.

RESTRICTIONS ON USE OF THE PRODUCT

It is your responsibility to read and understand the installation and operation instructions, both verbal and in writing, provided to you with respect to the product. You are authorized to use the product solely in connection with such instructions. Any use of the product not in accordance with such instructions shall void any warranty pertaining to the product. Any and all damages that may occur in the use of the product that is not strictly in accordance with such instructions shall be borne by you and you agree to indemnify and hold harmless SHINYBOWUSA, Inc. from and against any such damage.

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