

SB-6531T/SB-6531R

HDMI to Fiber Optic Extender

INSTRUCTION MANUAL



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.

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HDMI To Fiber Optic Extender

Thank you for purchasing the SB-6531T/SB-6531R HDMI To Fiber Optic Extender. 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 Amplifier.

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INTRODUCTION

Compact 4K2K HDMI to fiber optic converter and extender for sending uncompressed HDMI signal up to 984ft (300M) over low cost fiber optic cable. Perfect for remote camera shoots, digital projection systems, HDTV streams to multiple locations and other equipment requiring HDMI to fiber conversion. This system utilizes simplified LC connectors and is powered via USB. The kit includes (2) USB power cables and (1) external USB power supply. The external power supply can be used to power either the Transmitter or the Receiver for source/display devices that do not have a USB port. The SB-6531KIT includes both the fiber Transmitter AND fiber Receiver.

PACKAGE CONTENTS

Check that you have the following components;

- SB-6531T HDMI to Fiber Transmitter
- SB-6531R Fiber to HDMI Receiver
- (2) 3 feet, USB 2.0 A Male to Micro 5pin Male power cables
- (1) 16 Inch, USB 2.0 A Male to Micro 5pin Male power cable
- 5VDC USB power supply

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 & TRANSMISSION ANGLE

FEATURES

- Extends HDMI signals up to 984ft (300M) over multimode fiber
- Ultra HD 4K2K & full HDTV video resolutions up to 720p/1080i/1080p@60Hz
- Fully uncompressed video & audio provides zero loss of quality
- Supports true DDC/EDID/HDCP transmission over fiber
- Video over (2) multimode fibers
- Miniature form factor for ease of use and installation
- Device power from USB port (500mA)
- Uses Fiber Optic Cable, LC/LC, OM1, OM2 or OM3, Multi-Mode, Duplex (50, 62.5/125 Type)

TRANSMISSION ANGLE OF DIFFERENT TYPE OF FIBER

FIBER TYPE	FIBER SPECIFICATION	DISTANCE (METERS)	DISTANCE (FEET)
OM1	62.5/125 μ m	33	108
OM2	50/125/62.5 μ m	82	270
OM3	50/125 μ m	300	984

SPECIFICATIONS

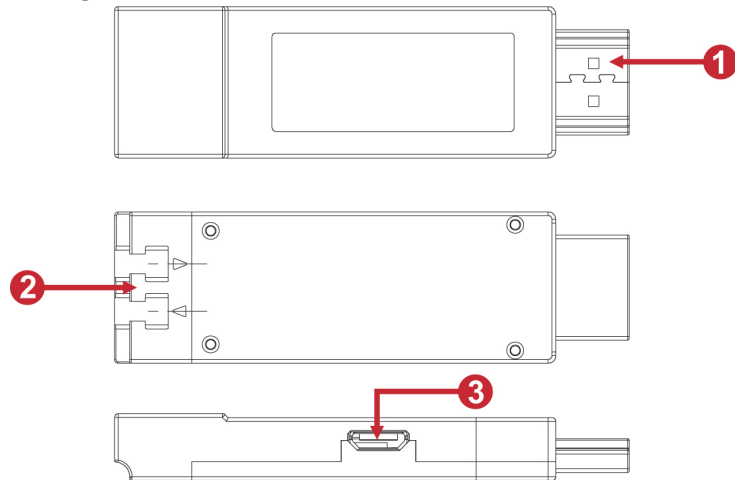
- **Type of Extender:** Fiber Transmitter for HDMI signal over Optical Fiber Cable
- **Input Signals:** HDMI
- **Signal Support:** HDMI 1.4a HDMI format standard and HDCP compliant
- **Video Support:** 1920x1200 / 1080p@60Hz, up to 4K2K@30Hz
- **Audio Support:** Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTSHD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- **Dynamic EDID:** Plug & Play, no need to learn
- **Fiber Connector:** Double LC Receptacle
- **Transfer Distance:** Multi Mode, up to 984ft (300M)
- **Operating Temperature:** 0°C to + 50°C
- **Storage Temperature:** -20°C to + 85°C
- **Humidity:** to 90% RH (non-condensing)
- **Safety Approvals:** CE
- **Dimension (WxDxH):** 3.15 x 0.79 x 0.35 in (80x20x9mm)
- **Weight:** 0.1 kg / 0.22 lb
- **Operation Voltage:** 5 DVC
- **Power Supply:** Power Input +5VDC, 0.85A (Universal Type 50/60Hz, 100~240VAC)

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

TYPICAL HOOK UP & OPERATION

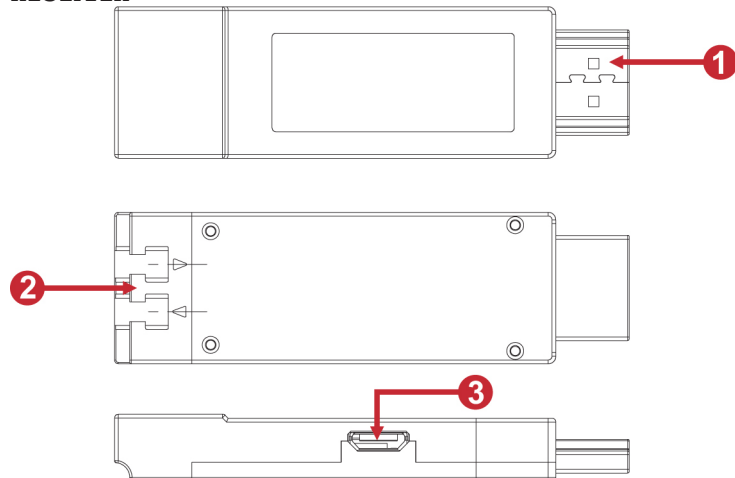
TYPICAL HOOK UP AND OPERATION

TRANSMITTER



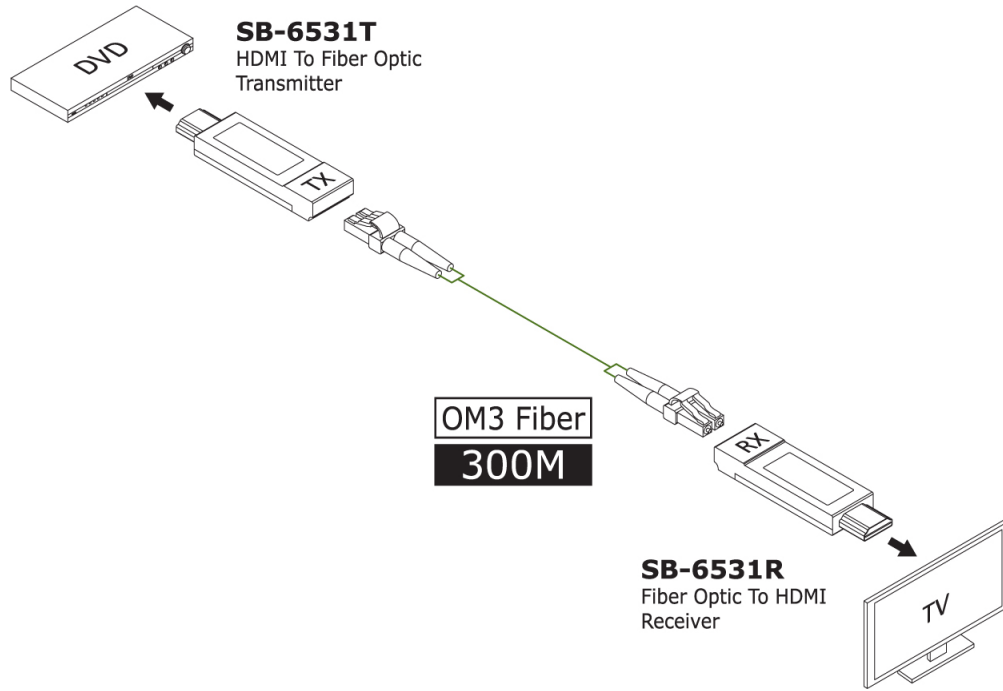
1. **HDMI Input:** HDMI signal Input Fiber HDMI Source
2. **Fiber Out:** Optical Fiber out to SB-6531R
3. **USB:** DC 12V input

RECEIVER



1. **HDMI Output:** HDMI signal output to TV
2. **Fiber Input:** Optical Fiber Input from SB-6531T
3. **USB:** DC 12V input

DIAGRAM



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