BlueRigger TOSLINK-SPLITTER-1X2

BlueRigger Digital Optical Audio Splitter (Active 1x2) Instruction Manual

Model: TOSLINK-SPLITTER-1X2

A compact black device, the BlueRigger Digital Optical Audio Splitter, featuring 'BlueRigger Digital Audio Splitter 1 x 2 Active' text and model 'TS201' on its top surface. It has an input port on one side and two output ports on the other, designed to split a single Toslink/SPDIF optical audio signal into two.

1. INTRODUCTION

The BlueRigger Digital Optical Audio Splitter (Active 1x2) is designed to distribute a single digital optical audio signal from one source device to two separate receiving devices. This active splitter regenerates and amplifies the audio signal, ensuring no loss in quality over longer cable runs, unlike passive splitters. It is ideal for home theater systems, gaming consoles, and other audio setups where simultaneous audio output to multiple devices is required.

2. FEATURES

- **Active Signal Splitting:** Converts one Toslink/SPDIF input into two identical Toslink/SPDIF outputs.
- **Signal Regeneration:** Amplifies and regenerates the optical signal to maintain audio quality and

integrity.

- **Wide Audio Format Support:** Compatible with Digital 5.1CH Dolby-AC3, DTS, PCM, LPCM2.0, ADAT, and supports sampling rates of 32kHz, 44.1kHz, 48kHz, and 96kHz.

- **Durable Construction:** Features an aluminum alloy shell, high-quality fiber optic core, and fiber optic heads for low attenuation and strong anti-interference.

- **Heat Dissipation:** Designed with 360-degree heat dissipation for reliable performance.

Note: This splitter does not support 7.1CH Dolby Digital Plus or Dolby TrueHD, as these formats cannot be transmitted via standard fiber optic cables.


A visual representation of the BlueRigger Active Toslink Splitter integrated into a home entertainment system. The splitter is connected to a television, distributing amplified optical audio to a sound system (speakers and subwoofer) and headphones, enabling multiple users to enjoy audio simultaneously with enhanced signal quality. Logos for Digital DTS and Dolby are visible, indicating supported audio formats.

Active vs. Passive Splitters

Understanding the difference between active and passive splitters is crucial for optimal performance:
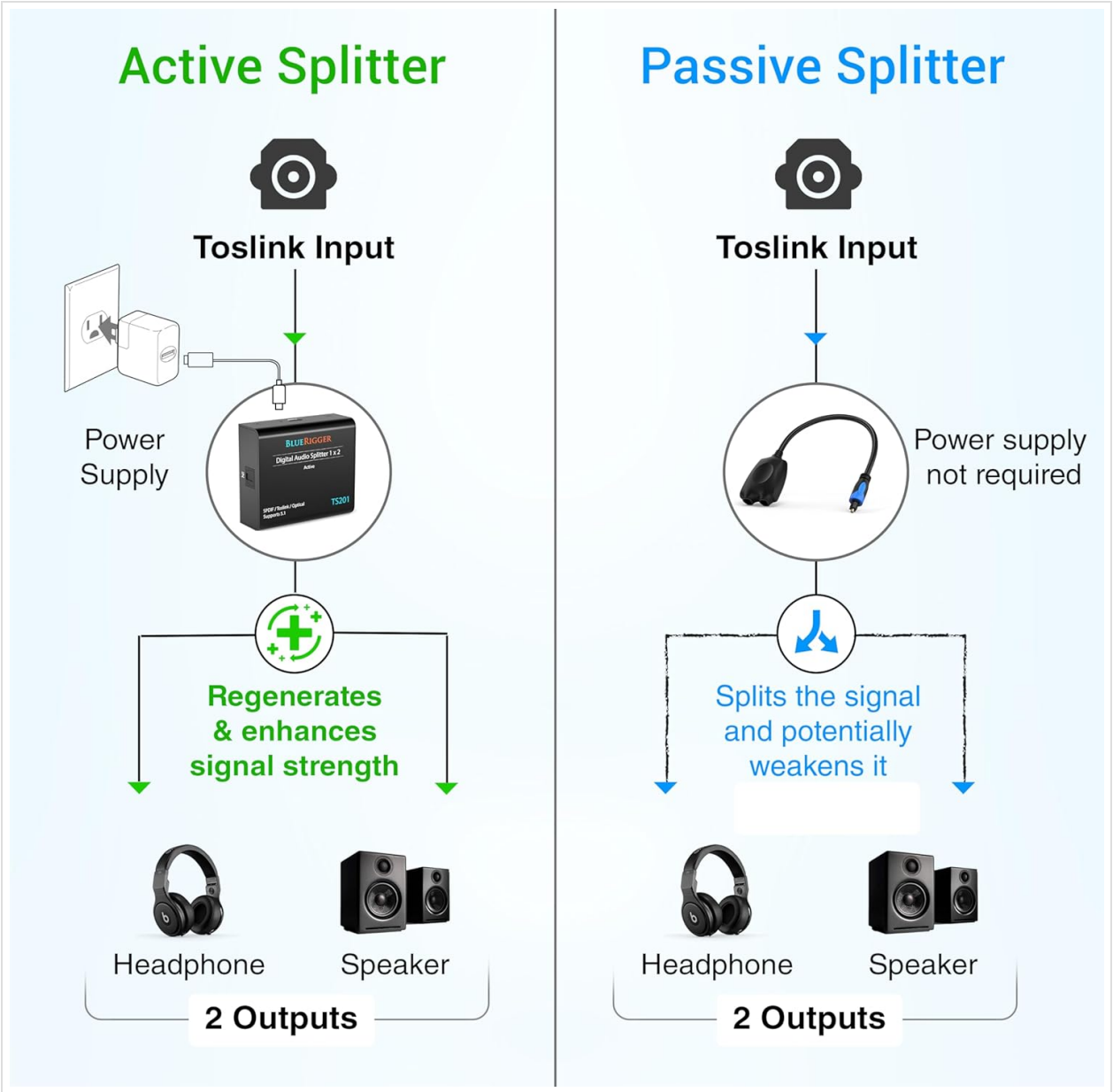
A diagram illustrating the difference between an Active Splitter and a Passive Splitter. The Active Splitter shows a Toslink input connected to the splitter, which requires a power supply, and then splits the signal to two outputs (headphones and speaker), regenerating and enhancing signal strength. The Passive Splitter shows a Toslink input splitting directly to two outputs, noting that it does not require a power supply but potentially weakens the signal.

COMPARISON CHART	ACTIVE SPLITTER	PASSIVE SPLITTER
How does it work?	Regenerates the signal with no loss	Splits the signal potentially weakening it
Power Supply	Required (USB cable included)	Power supply Not required
Cable Length	Supports all lengths	Cable length ≤ 10ft
Compatibility	Works with all devices	Does not work well with old devices
How to choose?	Wider compatibility & signal integrity	Simple, power-free setup

A comparison chart detailing Active and Passive Toslink Splitters across categories: How it works, Power Supply, Cable Length, Compatibility, and How to choose. The Active Splitter regenerates signal with no loss, requires power (USB cable included), supports all cable lengths, offers wider compatibility and signal integrity. The Passive Splitter splits the signal potentially weakening it, does not require power, supports cable lengths up to 10ft, and may not work well with old devices, offering a simple, power-free setup.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- BlueRigger Active Digital Optical Audio Splitter (1x2)
- USB Power Cable (Note: AC adapter not included)

4. SETUP INSTRUCTIONS

Follow these steps to connect your BlueRigger Digital Optical Audio Splitter:

1. **Connect the Source:** Insert one end of a Toslink optical cable (not included) into the optical audio output port of your source device (e.g., TV, game console).
2. **Connect to Splitter Input:** Insert the other end of the Toslink optical cable into the 'IN' port of the

BlueRigger Digital Optical Audio Splitter.

3. **Connect Output Devices:** Insert one end of a Toslink optical cable (not included) into 'Output 1' of the splitter and the other end into the optical audio input of your first receiving device (e.g., soundbar, AV receiver).

4. **Connect Second Output Device:** Insert one end of another Toslink optical cable (not included) into 'Output 2' of the splitter and the other end into the optical audio input of your second receiving device (e.g., headphones base, DAC).

5. **Connect Power:** Connect the provided USB power cable to the splitter's power input port. Connect the other end of the USB cable to a USB power source (e.g., TV USB port, USB wall adapter - not included).

6. **Power On:** Ensure all connected devices are powered on.

An illustration demonstrating the BlueRigger Active Optical Splitter connecting a television's optical audio output to two separate devices: an A/V receiver and a pair of headphones. This setup allows simultaneous audio playback through both devices.

5. OPERATING INSTRUCTIONS

Once properly connected and powered, the BlueRigger Digital Optical Audio Splitter operates automatically. Audio from your source device will be simultaneously transmitted to both connected output devices.

- **Source Device Settings:** Ensure your source device's audio output is configured to 'PCM' or 'Bitstream' (Dolby Digital/DTS) as appropriate for your receiving devices. Some devices may require specific settings for optical output.

- **Volume Control:** Adjust volume levels independently on your connected receiving devices (e.g., soundbar, headphones).

- **Private Listening:** Use the splitter to enable private listening through headphones while others can still hear audio through a soundbar or speakers.

Listen to audio without disturbing others around you

NOTE: Bluetooth headphones should have a base with a Toslink Input Port

An image depicting a couple watching television with headphones on, connected via the optical splitter, while a baby sleeps peacefully in the foreground. This illustrates the product's utility for private listening without disturbing others. A note clarifies that Bluetooth headphones require a base with a Toslink Input Port to be compatible with this setup.

6. COMPATIBILITY

The BlueRigger Digital Optical Audio Splitter is compatible with a wide range of devices:
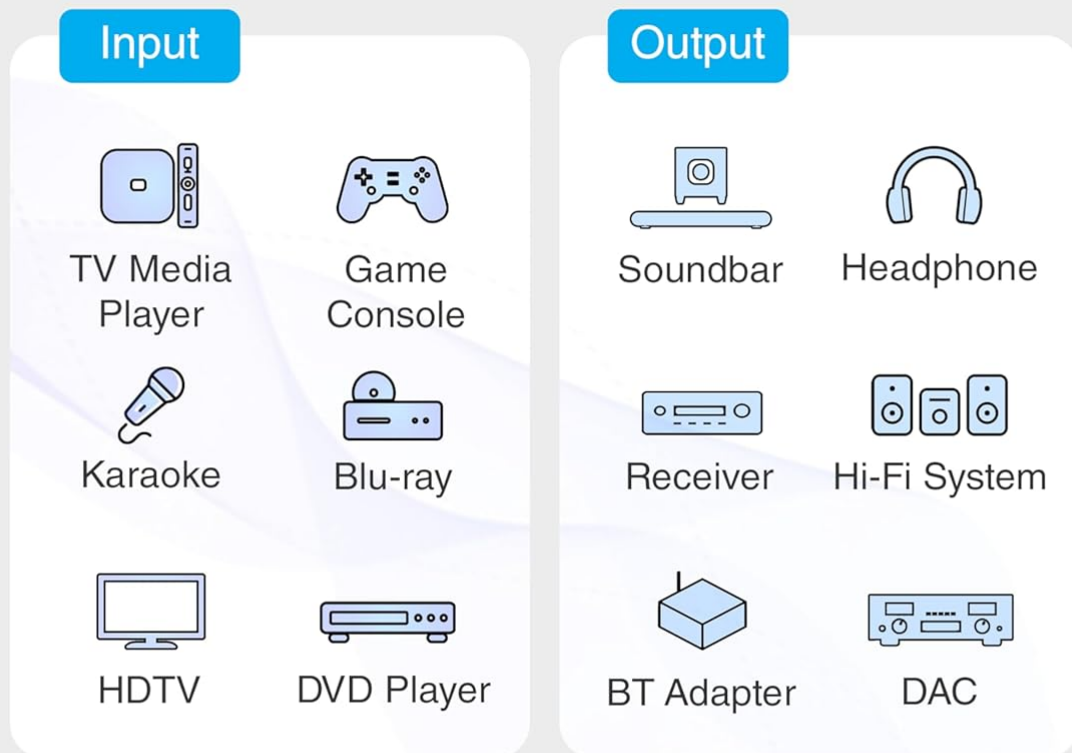
Input Devices:

- HDTVs
- Apple TV
- Cable Boxes
- Xbox 360 / Xbox One / PS4 / PS3

- CD/DVD Players
- Blu-ray Players
- Karaoke Systems
- Other digital audio sources with Toslink/SPDIF output

Output Devices:

- Speakers
- Amplifiers
- Soundbars
- Bluetooth Transmitters (with Toslink input)
- Receivers
- DAC Audio Converters
- Headphones (with Toslink input base)

A diagram showcasing the wide compatibility of the BlueRigger Active Optical Splitter. It lists various input devices such as TV Media Player, Game Console, Karaoke, Blu-ray, HDTV, and DVD Player. Output devices include Soundbar, Headphone, Receiver, Hi-Fi System, BT Adapter, and DAC. The image emphasizes the versatility of the splitter for different audio setups.

7. SPECIFICATIONS

Attribute	Specification
Brand	BlueRigger
Model Number	TOSLINK-SPLITTER-1X2
Interface Type	Optical (Toslink/SPDIF)

Number of Channels	1 Input, 2 Outputs
Material	Aluminum Alloy, Fiber Optic
Product Dimensions	2.36 x 2.36 x 1.57 inches (61 x 61 x 40 mm)
Item Weight	0.811 ounces
Supported Audio Formats	Digital 5.1CH Dolby-AC3, DTS, PCM, LPCM2.0, ADAT
Supported Sample Rates	32kHz, 44.1kHz, 48kHz, 96kHz
Unsupported Audio Formats	7.1CH Dolby Digital Plus, Dolby TrueHD

A technical drawing providing the dimensions of the BlueRigger Digital Audio Splitter 1x2. It shows the device's length, width, and height in millimeters (61mm x 54mm x 21mm), along with labels for Toslink Input, Output 1, Output 2, and Power Supply port, offering precise physical specifications.
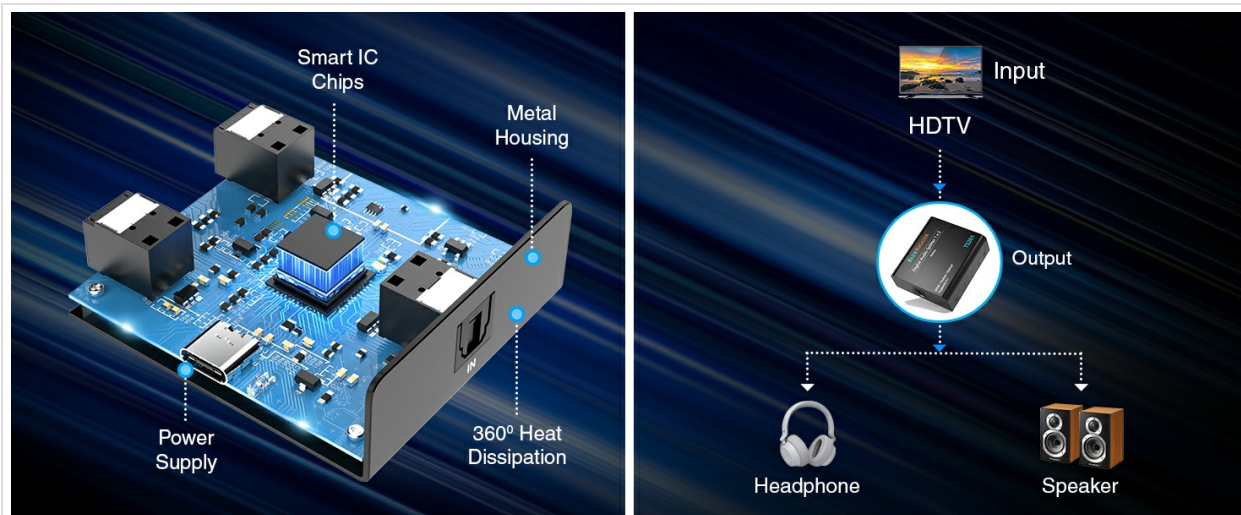
An illustration detailing the internal components and signal flow of the BlueRigger Active Optical Splitter, highlighting the smart IC chips, metal housing, power supply input, and heat dissipation design.

8. TROUBLESHOOTING

If you encounter issues with your BlueRigger Digital Optical Audio Splitter, please refer to the following common problems and solutions:

- **No Audio Output:**
  - Ensure the splitter is properly powered via the USB cable.
  - Verify all optical cables are securely connected to the input and output ports.
  - Check the audio output settings on your source device (TV, game console). Ensure it is set to 'PCM' for stereo audio or 'Bitstream' (Dolby Digital/DTS) if your receiving devices support it. Some devices may default to formats not supported by optical output.
  - Test with different optical cables if possible, as damaged cables can prevent signal transmission.

- **Poor Audio Quality or Intermittent Sound:**
  - Ensure optical cables are not bent sharply or kinked, as this can damage the fiber.
  - Confirm that the optical cable ends are clean and free of dust or debris.
  - Verify that the power supply is stable.

- **Only One Output Device Receiving Audio:**
  - Double-check the optical cable connections for both output devices.
  - Ensure both receiving devices are powered on and correctly configured for optical input.
  - Confirm the source device's audio format is compatible with both receiving devices.

9. SAFETY INFORMATION

- Do not expose the device to water or excessive moisture.
- Avoid placing the device near heat sources or in direct sunlight.
- Handle optical cables with care; do not bend them sharply or apply excessive force.
- Use only the provided USB power cable. Ensure the power source meets the device's requirements.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.
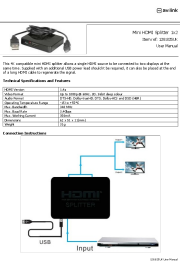
10. WARRANTY AND SUPPORT

BlueRigger products are backed by a **Lifetime Warranty**, ensuring long-term reliability and customer satisfaction. For any questions, technical assistance, or warranty claims, please contact our US-based Customer Support team.

For more product details and support resources, please visit the BlueRigger Amazon storefront or contact us directly through the Amazon platform.

Related Documents - TOSLINK-SPLITTER-1X2

	[PROZOR SPDIF/TOSLINK Digital Optical Audio 1x3 Splitter User Manual](#) User manual for the PROZOR SPDIF/TOSLINK Digital Optical Audio 1x3 Splitter, detailing its features, specifications, panel descriptions, and connection guide. This device splits one digital optical Toslink audio source to three outputs for AV amplifiers.
	[HDMI Audio Extractor User Manual](#) User manual for the HDMI Audio Extractor, detailing its features, specifications, panel description, EDID settings, wiring diagram, and troubleshooting.
	[Bluerigger Toslink Splitter Installation and Support](#) Installation instructions and support information for the Bluerigger Toslink Splitter. Learn how to connect your devices and troubleshoot potential issues.
	[av:link Mini HDMI Splitter 1x2 (128.825UK) User Manual](#) User manual for the av:link Mini HDMI Splitter 1x2 (model 128.825UK). Provides technical specifications, connection instructions, and important warnings for this 4K compatible HDMI splitter.

[Variable Fiber Optical Splitter/Coupler (1x2, 2x2, SM, PM) Datasheet](#)

Datasheet for Agiltron's Variable Fiber Optical Splitter/Coupler, featuring 1x2 and 2x2 configurations, Single-Mode (SM) and Polarization-Maintaining (PM) options. Details specifications, operation, dimensions, and ordering information.

[EZ-SP12H21 1x2 HDMI 2.1 Splitter Scaler User Manual](#)

User manual for the EZ-SP12H21, a 1x2 HDMI 2.1 splitter scaler supporting 8K@60Hz, 4K@120Hz, VRR, ALLM, Dolby Vision, and HDCP 2.3. Provides installation, instruction, specifications, and troubleshooting information for seamless audio-visual distribution.